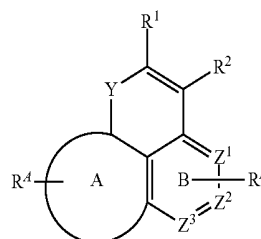




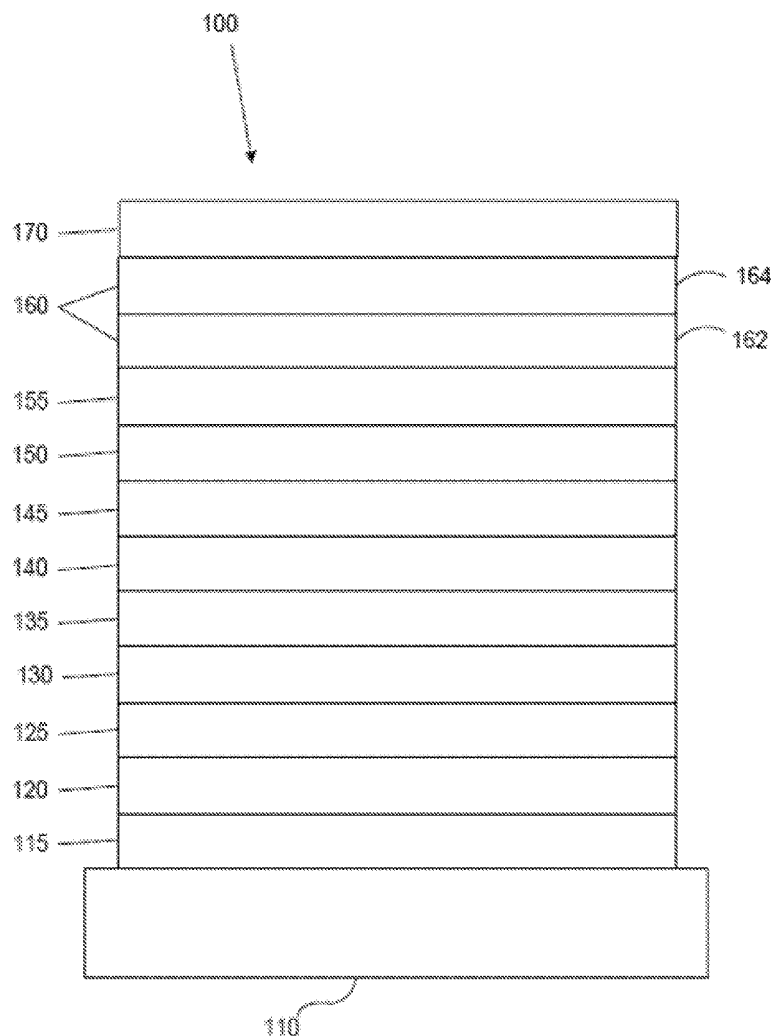
US 20190252627A1

(19) **United States**(12) **Patent Application Publication**
JOSEPH et al.(10) **Pub. No.: US 2019/0252627 A1**(43) **Pub. Date: Aug. 15, 2019**(54) **ORGANIC ELECTROLUMINESCENT
MATERIALS AND DEVICES****Publication Classification**(71) Applicant: **UNIVERSAL DISPLAY
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Pennington, NJ (US)(73) Assignee: **UNIVERSAL DISPLAY
CORPORATION**, Ewing, NJ (US)(21) Appl. No.: **16/243,655**(22) Filed: **Jan. 9, 2019****Related U.S. Application Data**(60) Provisional application No. 62/628,423, filed on Feb.
9, 2018.(51) **Int. Cl.****H01L 51/00** (2006.01)**C07F 15/00** (2006.01)**C09K 11/06** (2006.01)(52) **U.S. Cl.**CPC **H01L 51/0085** (2013.01); **H01L 51/5012**
(2013.01); **C09K 11/06** (2013.01); **C07F**
15/0033 (2013.01)

(57)

ABSTRACTA compound including a first ligand L^A of Formula I

is disclosed.



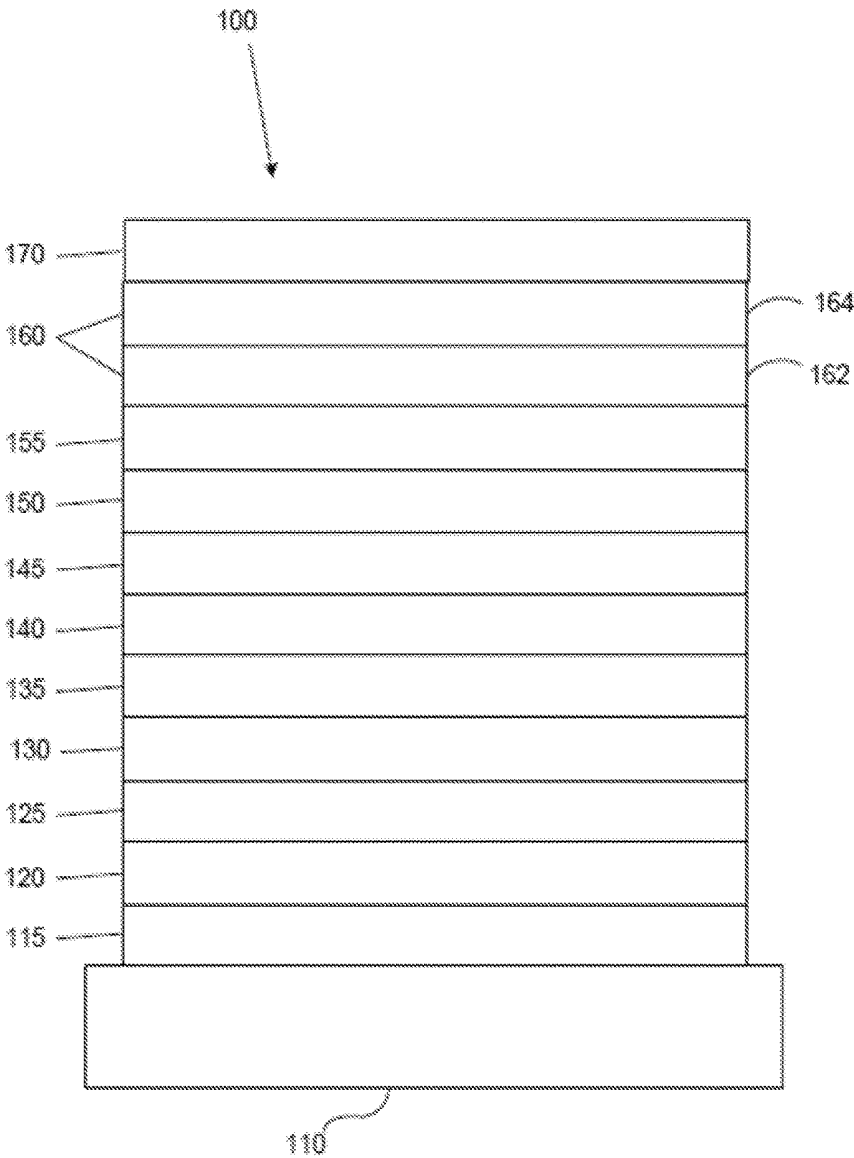


FIG. 1

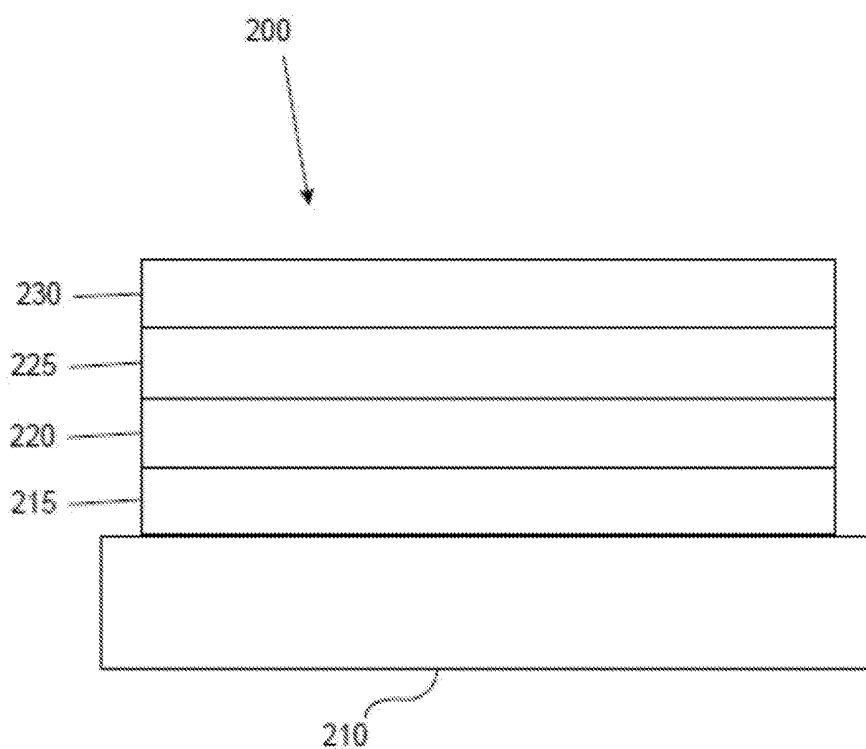


FIG. 2

**ORGANIC ELECTROLUMINESCENT
MATERIALS AND DEVICES****CROSS-REFERENCE TO RELATED
APPLICATIONS**

[0001] This application claims priority under 35 U.S.C. § 119(e) to U.S. Provisional Application No. 62/628,423, filed Feb. 9, 2018, the entire contents of which are incorporated herein by reference.

FIELD

[0002] The present invention relates to compounds for use as emitters, and devices, such as organic light emitting diodes, including the same.

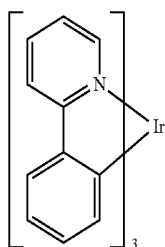
BACKGROUND

[0003] Opto-electronic devices that make use of organic materials are becoming increasingly desirable for a number of reasons. Many of the materials used to make such devices are relatively inexpensive, so organic opto-electronic devices have the potential for cost advantages over inorganic devices. In addition, the inherent properties of organic materials, such as their flexibility, may make them well suited for particular applications such as fabrication on a flexible substrate. Examples of organic opto-electronic devices include organic light emitting diodes/devices (OLEDs), organic phototransistors, organic photovoltaic cells, and organic photodetectors. For OLEDs, the organic materials may have performance advantages over conventional materials. For example, the wavelength at which an organic emissive layer emits light may generally be readily tuned with appropriate dopants.

[0004] OLEDs make use of thin organic films that emit light when voltage is applied across the device. OLEDs are becoming an increasingly interesting technology for use in applications such as flat panel displays, illumination, and backlighting. Several OLED materials and configurations are described in U.S. Pat. Nos. 5,844,363, 6,303,238, and 5,707,745, which are incorporated herein by reference in their entirety.

[0005] One application for phosphorescent emissive molecules is a full color display. Industry standards for such a display call for pixels adapted to emit particular colors, referred to as “saturated” colors. In particular, these standards call for saturated red, green, and blue pixels. Alternatively the OLED can be designed to emit white light. In conventional liquid crystal displays emission from a white backlight is filtered using absorption filters to produce red, green and blue emission. The same technique can also be used with OLEDs. The white OLED can be either a single EML device or a stack structure. Color may be measured using CIE coordinates, which are well known to the art.

[0006] One example of a green emissive molecule is tris(2-phenylpyridine) iridium, denoted Ir(ppy)₃, which has the following structure:



[0007] In this, and later figures herein, we depict the dative bond from nitrogen to metal (here, Ir) as a straight line.

[0008] As used herein, the term “organic” includes polymeric materials as well as small molecule organic materials that may be used to fabricate organic opto-electronic devices. “Small molecule” refers to any organic material that is not a polymer, and “small molecules” may actually be quite large. Small molecules may include repeat units in some circumstances. For example, using a long chain alkyl group as a substituent does not remove a molecule from the “small molecule” class. Small molecules may also be incorporated into polymers, for example as a pendent group on a polymer backbone or as a part of the backbone. Small molecules may also serve as the core moiety of a dendrimer, which consists of a series of chemical shells built on the core moiety. The core moiety of a dendrimer may be a fluorescent or phosphorescent small molecule emitter. A dendrimer may be a “small molecule,” and it is believed that all dendrimers currently used in the field of OLEDs are small molecules.

[0009] As used herein, “top” means furthest away from the substrate, while “bottom” means closest to the substrate. Where a first layer is described as “disposed over” a second layer, the first layer is disposed further away from substrate. There may be other layers between the first and second layer, unless it is specified that the first layer is “in contact with” the second layer. For example, a cathode may be described as “disposed over” an anode, even though there are various organic layers in between.

[0010] As used herein, “solution processable” means capable of being dissolved, dispersed, or transported in and/or deposited from a liquid medium, either in solution or suspension form.

[0011] A ligand may be referred to as “photoactive” when it is believed that the ligand directly contributes to the photoactive properties of an emissive material. A ligand may be referred to as “ancillary” when it is believed that the ligand does not contribute to the photoactive properties of an emissive material, although an ancillary ligand may alter the properties of a photoactive ligand.

[0012] As used herein, and as would be generally understood by one skilled in the art, a first “Highest Occupied Molecular Orbital” (HOMO) or “Lowest Unoccupied Molecular Orbital” (LUMO) energy level is “greater than” or “higher than” a second HOMO or LUMO energy level if the first energy level is closer to the vacuum energy level. Since ionization potentials (IP) are measured as a negative energy relative to a vacuum level, a higher HOMO energy level corresponds to an IP having a smaller absolute value (an IP that is less negative). Similarly, a higher LUMO energy level corresponds to an electron affinity (EA) having a smaller absolute value (an EA that is less negative). On a conventional energy level diagram, with the vacuum level at the top, the LUMO energy level of a material is higher than the HOMO energy level of the same material. A “higher” HOMO or LUMO energy level appears closer to the top of such a diagram than a “lower” HOMO or LUMO energy level.

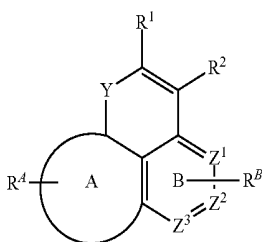
[0013] As used herein, and as would be generally understood by one skilled in the art, a first work function is “greater than” or “higher than” a second work function if the first work function has a higher absolute value. Because work functions are generally measured as negative numbers relative to vacuum level, this means that a “higher” work function is more negative. On a conventional energy level

diagram, with the vacuum level at the top, a “higher” work function is illustrated as further away from the vacuum level in the downward direction. Thus, the definitions of HOMO and LUMO energy levels follow a different convention than work functions.

[0014] More details on OLEDs, and the definitions described above, can be found in U.S. Pat. No. 7,279,704, which is incorporated herein by reference in its entirety.

SUMMARY

[0015] A compound comprising a first ligand L^A of Formula I



is disclosed. In Formula I, Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

[0016] Z^1 , Z^2 , and Z^3 are each independently selected from the group comprising C and N; Y is selected from the group consisting of O, S, Se, NR^3 , CRR' , $SiRR'$, $GeRR'$, and a single bond; a metal M forms a direct bond to Ring A or Ring B;

[0017] M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au; R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution; R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl, cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

[0018] one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

[0019] the ligand L^A is optionally linked with other ligands to form a ligand having a denticity of tridentate to a maximum possible denticity to which M can coordinate;

[0020] any two substituents may be joined or fused together to form a ring, provided that R^1 and R^2 are not joined to form a 6-membered aromatic ring when Y is a single bond; and

[0021] M is optionally coordinated to other ligands.

[0022] An OLED comprising the compound of the present disclosure in an organic layer therein is also disclosed.

[0023] A consumer product comprising the OLED is also disclosed.

BRIEF DESCRIPTION OF THE DRAWINGS

[0024] FIG. 1 shows an organic light emitting device.

[0025] FIG. 2 shows an inverted organic light emitting device that does not have a separate electron transport layer.

DETAILED DESCRIPTION

[0026] Generally, an OLED comprises at least one organic layer disposed between and electrically connected to an anode and a cathode. When a current is applied, the anode injects holes and the cathode injects electrons into the organic layer(s). The injected holes and electrons each migrate toward the oppositely charged electrode. When an electron and hole localize on the same molecule, an “exciton,” which is a localized electron-hole pair having an excited energy state, is formed. Light is emitted when the exciton relaxes via a photoemissive mechanism. In some cases, the exciton may be localized on an excimer or an exciplex. Non-radiative mechanisms, such as thermal relaxation, may also occur, but are generally considered undesirable.

[0027] The initial OLEDs used emissive molecules that emitted light from their singlet states (“fluorescence”) as disclosed, for example, in U.S. Pat. No. 4,769,292, which is incorporated by reference in its entirety. Fluorescent emission generally occurs in a time frame of less than 10 nanoseconds.

[0028] More recently, OLEDs having emissive materials that emit light from triplet states (“phosphorescence”) have been demonstrated. Baldo et al., “Highly Efficient Phosphorescent Emission from Organic Electroluminescent Devices,” *Nature*, vol. 395, 151-154, 1998; (“Baldo-I”) and Baldo et al., “Very high-efficiency green organic light-emitting devices based on electrophosphorescence,” *Appl. Phys. Lett.*, vol. 75, No. 3, 4-6 (1999) (“Baldo-II”), are incorporated by reference in their entireties. Phosphorescence is described in more detail in U.S. Pat. No. 7,279,704 at cols. 5-6, which are incorporated by reference.

[0029] FIG. 1 shows an organic light emitting device 100. The figures are not necessarily drawn to scale. Device 100 may include a substrate 110, an anode 115, a hole injection layer 120, a hole transport layer 125, an electron blocking layer 130, an emissive layer 135, a hole blocking layer 140, an electron transport layer 145, an electron injection layer 150, a protective layer 155, a cathode 160, and a barrier layer 170. Cathode 160 is a compound cathode having a first conductive layer 162 and a second conductive layer 164. Device 100 may be fabricated by depositing the layers described, in order. The properties and functions of these various layers, as well as example materials, are described in more detail in U.S. Pat. No. 7,279,704 at cols. 6-10, which are incorporated by reference.

[0030] More examples for each of these layers are available. For example, a flexible and transparent substrate-anode combination is disclosed in U.S. Pat. No. 5,844,363, which is incorporated by reference in its entirety. An example of a p-doped hole transport layer is m-MTDATA doped with F_4 -TCNQ at a molar ratio of 50:1, as disclosed in U.S. Patent Application Publication No. 2003/0230980, which is incorporated by reference in its entirety. Examples of emissive and host materials are disclosed in U.S. Pat. No. 6,303,238 to Thompson et al., which is incorporated by reference in its entirety. An example of an n-doped electron transport layer is BPhen doped with Li at a molar ratio of 1:1, as disclosed in U.S. Patent Application Publication No. 2003/0230980, which is incorporated by reference in its entirety. U.S. Pat. Nos. 5,703,436 and 5,707,745, which are incorporated by reference in their entireties, disclose examples of cathodes including compound cathodes having a thin layer of metal such as Mg:Ag with an overlying transparent, electrically-

conductive, sputter-deposited ITO layer. The theory and use of blocking layers is described in more detail in U.S. Pat. No. 6,097,147 and U.S. Patent Application Publication No. 2003/0230980, which are incorporated by reference in their entireties. Examples of injection layers are provided in U.S. Patent Application Publication No. 2004/0174116, which is incorporated by reference in its entirety. A description of protective layers may be found in U.S. Patent Application Publication No. 2004/0174116, which is incorporated by reference in its entirety.

[0031] FIG. 2 shows an inverted OLED **200**. The device includes a substrate **210**, a cathode **215**, an emissive layer **220**, a hole transport layer **225**, and an anode **230**. Device **200** may be fabricated by depositing the layers described, in order. Because the most common OLED configuration has a cathode disposed over the anode, and device **200** has cathode **215** disposed under anode **230**, device **200** may be referred to as an “inverted” OLED. Materials similar to those described with respect to device **100** may be used in the corresponding layers of device **200**. FIG. 2 provides one example of how some layers may be omitted from the structure of device **100**.

[0032] The simple layered structure illustrated in FIGS. 1 and 2 is provided by way of non-limiting example, and it is understood that embodiments of the invention may be used in connection with a wide variety of other structures. The specific materials and structures described are exemplary in nature, and other materials and structures may be used. Functional OLEDs may be achieved by combining the various layers described in different ways, or layers may be omitted entirely, based on design, performance, and cost factors. Other layers not specifically described may also be included. Materials other than those specifically described herein describe various layers as comprising a single material, it is understood that combinations of materials, such as a mixture of host and dopant, or more generally a mixture, may be used. Also, the layers may have various sublayers. The names given to the various layers herein are not intended to be strictly limiting. For example, in device **200**, hole transport layer **225** transports holes and injects holes into emissive layer **220**, and may be described as a hole transport layer or a hole injection layer. In one embodiment, an OLED may be described as having an “organic layer” disposed between a cathode and an anode. This organic layer may comprise a single layer, or may further comprise multiple layers of different organic materials as described, for example, with respect to FIGS. 1 and 2.

[0033] Structures and materials not specifically described may also be used, such as OLEDs comprised of polymeric materials (PLEDs) such as disclosed in U.S. Pat. No. 5,247,190 to Friend et al., which is incorporated by reference in its entirety. By way of further example, OLEDs having a single organic layer may be used. OLEDs may be stacked, for example as described in U.S. Pat. No. 5,707,745 to Forrest et al., which is incorporated by reference in its entirety. The OLED structure may deviate from the simple layered structure illustrated in FIGS. 1 and 2. For example, the substrate may include an angled reflective surface to improve out-coupling, such as a mesa structure as described in U.S. Pat. No. 6,091,195 to Forrest et al., and/or a pit structure as described in U.S. Pat. No. 5,834,893 to Bulovic et al., which are incorporated by reference in their entireties.

[0034] Unless otherwise specified, any of the layers of the various embodiments may be deposited by any suitable method. For the organic layers, preferred methods include thermal evaporation, ink-jet, such as described in U.S. Pat. Nos. 6,013,982 and 6,087,196, which are incorporated by reference in their entireties, organic vapor phase deposition (OVPD), such as described in U.S. Pat. No. 6,337,102 to Forrest et al., which is incorporated by reference in its entirety, and deposition by organic vapor jet printing (OVJP), such as described in U.S. Pat. No. 7,431,968, which is incorporated by reference in its entirety. Other suitable deposition methods include spin coating and other solution based processes. Solution based processes are preferably carried out in nitrogen or an inert atmosphere. For the other layers, preferred methods include thermal evaporation. Preferred patterning methods include deposition through a mask, cold welding such as described in U.S. Pat. Nos. 6,294,398 and 6,468,819, which are incorporated by reference in their entireties, and patterning associated with some of the deposition methods such as ink jet and organic vapor jet printing (OVJP). Other methods may also be used. The materials to be deposited may be modified to make them compatible with a particular deposition method. For example, substituents such as alkyl and aryl groups, branched or unbranched, and preferably containing at least 3 carbons, may be used in small molecules to enhance their ability to undergo solution processing. Substituents having 20 carbons or more may be used, and 3-20 carbons is a preferred range. Materials with asymmetric structures may have better solution processability than those having symmetric structures, because asymmetric materials may have a lower tendency to recrystallize. Dendrimer substituents may be used to enhance the ability of small molecules to undergo solution processing.

[0035] Devices fabricated in accordance with embodiments of the present invention may further optionally comprise a barrier layer. One purpose of the barrier layer is to protect the electrodes and organic layers from damaging exposure to harmful species in the environment including moisture, vapor and/or gases, etc. The barrier layer may be deposited over, under or next to a substrate, an electrode, or over any other parts of a device including an edge. The barrier layer may comprise a single layer, or multiple layers. The barrier layer may be formed by various known chemical vapor deposition techniques and may include compositions having a single phase as well as compositions having multiple phases. Any suitable material or combination of materials may be used for the barrier layer. The barrier layer may incorporate an inorganic or an organic compound or both. The preferred barrier layer comprises a mixture of a polymeric material and a non-polymeric material as described in U.S. Pat. No. 7,968,146, PCT Pat. Application Nos. PCT/US2007/023098 and PCT/US2009/042829, which are herein incorporated by reference in their entireties. To be considered a “mixture”, the aforesaid polymeric and non-polymeric materials comprising the barrier layer should be deposited under the same reaction conditions and/or at the same time. The weight ratio of polymeric to non-polymeric material may be in the range of 95:5 to 5:95. The polymeric material and the non-polymeric material may be created from the same precursor material. In one example, the mixture of a polymeric material and a non-polymeric material consists essentially of polymeric silicon and inorganic silicon.

[0036] Devices fabricated in accordance with embodiments of the invention can be incorporated into a wide variety of electronic component modules (or units) that can be incorporated into a variety of electronic products or intermediate components. Examples of such electronic products or intermediate components include display screens, lighting devices such as discrete light source devices or lighting panels, etc. that can be utilized by the end-user product manufacturers. Such electronic component modules can optionally include the driving electronics and/or power source(s). Devices fabricated in accordance with embodiments of the invention can be incorporated into a wide variety of consumer products that have one or more of the electronic component modules (or units) incorporated therein. A consumer product comprising an OLED that includes the compound of the present disclosure in the organic layer in the OLED is disclosed. Such consumer products would include any kind of products that include one or more light source(s) and/or one or more of some type of visual displays. Some examples of such consumer products include flat panel displays, curved displays, computer monitors, medical monitors, televisions, billboards, lights for interior or exterior illumination and/or signaling, heads-up displays, fully or partially transparent displays, flexible displays, rollable displays, foldable displays, stretchable displays, laser printers, telephones, mobile phones, tablets, phablets, personal digital assistants (PDAs), wearable devices, laptop computers, digital cameras, camcorders, viewfinders, micro-displays (displays that are less than 2 inches diagonal), 3-D displays, virtual reality or augmented reality displays, vehicles, video walls comprising multiple displays tiled together, theater or stadium screen, a light therapy device, and a sign. Various control mechanisms may be used to control devices fabricated in accordance with the present invention, including passive matrix and active matrix. Many of the devices are intended for use in a temperature range comfortable to humans, such as 18 degrees C. to 30 degrees C., and more preferably at room temperature (20-25 degrees C.), but could be used outside this temperature range, for example, from -40 degree C. to +80 degree C.

[0037] The materials and structures described herein may have applications in devices other than OLEDs. For example, other optoelectronic devices such as organic solar cells and organic photodetectors may employ the materials and structures. More generally, organic devices, such as organic transistors, may employ the materials and structures.

[0038] The terms “halo,” “halogen,” and “halide” are used interchangeably and refer to fluorine, chlorine, bromine, and iodine.

[0039] The term “acyl” refers to a substituted carbonyl radical ($C(O)-R_s$).

[0040] The term “ester” refers to a substituted oxycarbonyl ($-O-C(O)-R_s$ or $-C(O)-O-R_s$) radical.

[0041] The term “ether” refers to an $-OR_s$ radical.

[0042] The terms “sulfanyl” or “thio-ether” are used interchangeably and refer to a $-SR_s$ radical.

[0043] The term “sulfinyl” refers to a $-S(O)-R_s$ radical.

[0044] The term “sulfonyl” refers to a $-SO_2-R_s$ radical.

[0045] The term “phosphino” refers to a $-P(R_s)_3$ radical, wherein each R can be same or different.

[0046] The term “silyl” refers to a $-Si(R_s)_3$ radical, wherein each R_s can be same or different.

[0047] In each of the above, R_s can be hydrogen or a substituent selected from the group consisting of deuterium, halogen, alkyl, cycloalkyl, heteroalkyl, heterocycloalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, and combination thereof. Preferred R_s is selected from the group consisting of alkyl, cycloalkyl, aryl, heteroaryl, and combination thereof.

[0048] The term “alkyl” refers to and includes both straight and branched chain alkyl radicals. Preferred alkyl groups are those containing from one to fifteen carbon atoms and includes methyl, ethyl, propyl, 1-methylethyl, butyl, 1-methylpropyl, 2-methylpropyl, pentyl, 1-methylbutyl, 2-methylbutyl, 3-methylbutyl, 1,1-dimethylpropyl, 1,2-dimethylpropyl, 2,2-dimethylpropyl, and the like. Additionally, the alkyl group is optionally substituted.

[0049] The term “cycloalkyl” refers to and includes monocyclic, polycyclic, and spiro alkyl radicals. Preferred cycloalkyl groups are those containing 3 to 12 ring carbon atoms and includes cyclopropyl, cyclopentyl, cyclohexyl, bicyclo[3.1.1]heptyl, spiro[4.5]decyl, spiro[5.5]undecyl, adamantyl, and the like. Additionally, the cycloalkyl group is optionally substituted.

[0050] The terms “heteroalkyl” or “heterocycloalkyl” refer to an alkyl or a cycloalkyl radical, respectively, having at least one carbon atom replaced by a heteroatom. Optionally the at least one heteroatom is selected from O, S, N, P, B, Si and Se, preferably, O, S or N. Additionally, the heteroalkyl or heterocycloalkyl group is optionally substituted.

[0051] The term “alkenyl” refers to and includes both straight and branched chain alkene radicals. Alkenyl groups are essentially alkyl groups that include at least one carbon-carbon double bond in the alkyl chain. Cycloalkenyl groups are essentially cycloalkyl groups that include at least one carbon-carbon double bond in the cycloalkyl ring. The term “heteroalkenyl” as used herein refers to an alkenyl radical having at least one carbon atom replaced by a heteroatom. Optionally the at least one heteroatom is selected from O, S, N, P, B, Si, and Se, preferably, O, S, or N. Preferred alkenyl, cycloalkenyl, or heteroalkenyl groups are those containing two to fifteen carbon atoms. Additionally, the alkenyl, cycloalkenyl, or heteroalkenyl group is optionally substituted.

[0052] The term “alkynyl” refers to and includes both straight and branched chain alkyne radicals. Preferred alkynyl groups are those containing two to fifteen carbon atoms. Additionally, the alkynyl group is optionally substituted.

[0053] The terms “aralkyl” or “arylalkyl” are used interchangeably and refer to an alkyl group that is substituted with an aryl group. Additionally, the aralkyl group is optionally substituted.

[0054] The term “heterocyclic group” refers to and includes aromatic and non-aromatic cyclic radicals containing at least one heteroatom. Optionally the at least one heteroatom is selected from O, S, N, P, B, Si, and Se, preferably, O, S, or N. Hetero-aromatic cyclic radicals may be used interchangeably with heteroaryl. Preferred hetero-non-aromatic cyclic groups are those containing 3 to 7 ring atoms which includes at least one hetero atom, and includes cyclic amines such as morpholino, piperidino, pyrrolidino, and the like, and cyclic ethers/thio-ethers, such as tetrahy-

drofuran, tetrahydropyran, tetrahydrothiophene, and the like. Additionally, the heterocyclic group may be optionally substituted.

[0055] The term “aryl” refers to and includes both single-ring aromatic hydrocarbonyl groups and polycyclic aromatic ring systems. The polycyclic rings may have two or more rings in which two carbons are common to two adjoining rings (the rings are “fused”) wherein at least one of the rings is an aromatic hydrocarbonyl group, e.g., the other rings can be cycloalkyls, cycloalkenyls, aryl, heterocycles, and/or heteroaryls. Preferred aryl groups are those containing six to thirty carbon atoms, preferably six to twenty carbon atoms, more preferably six to twelve carbon atoms. Especially preferred is an aryl group having six carbons, ten carbons or twelve carbons. Suitable aryl groups include phenyl, biphenyl, triphenyl, triphenylene, tetraphenylene, naphthalene, anthracene, phenalene, phenanthrene, fluorene, pyrene, chrysene, perylene, and azulene, preferably phenyl, biphenyl, triphenyl, triphenylene, fluorene, and naphthalene. Additionally, the aryl group is optionally substituted.

[0056] The term “heteroaryl” refers to and includes both single-ring aromatic groups and polycyclic aromatic ring systems that include at least one heteroatom. The heteroatoms include, but are not limited to O, S, N, P, B, Si, and Se. In many instances, O, S, or N are the preferred heteroatoms. Hetero-single ring aromatic systems are preferably single rings with 5 or 6 ring atoms, and the ring can have from one to six heteroatoms. The hetero-polycyclic ring systems can have two or more rings in which two atoms are common to two adjoining rings (the rings are “fused”) wherein at least one of the rings is a heteroaryl, e.g., the other rings can be cycloalkyls, cycloalkenyls, aryl, heterocycles, and/or heteroaryls. The hetero-polycyclic aromatic ring systems can have from one to six heteroatoms per ring of the polycyclic aromatic ring system. Preferred heteroaryl groups are those containing three to thirty carbon atoms, preferably three to twenty carbon atoms, more preferably three to twelve carbon atoms. Suitable heteroaryl groups include dibenzothiophene, dibenzofuran, dibenzoselenophene, furan, thiophene, benzofuran, benzothiophene, benzoselenophene, carbazole, indolocarbazole, pyridylindole, pyrrolodipyridine, pyrazole, imidazole, triazole, oxazole, thiazole, oxadiazole, oxatriazole, dioxazole, thiadiazole, pyridine, pyridazine, pyrimidine, pyrazine, triazine, oxazine, oxathiazine, oxadiazine, indole, benzimidazole, indazole, indoxazine, benzoxazole, benzisoxazole, benzothiazole, quinoline, isoquinoline, cinno- line, quinazoline, quinoxaline, naphthyridine, phthalazine, pteridine, xanthene, acridine, phenazine, phenothiazine, phenoxazine, benzofuopyridine, furodipyridine, benzothienopyridine, thienodipyridine, benzoselenophenopyridine, and selenophenodipyridine, preferably dibenzothiophene, dibenzofuran, dibenzoselenophene, carbazole, indolocarbazole, imidazole, pyridine, triazine, benzimidazole, 1,2-azaborine, 1,3-azaborine, 1,4-azaborine, borazine, and aza-analogs thereof. Additionally, the heteroaryl group is optionally substituted.

[0057] Of the aryl and heteroaryl groups listed above, the groups of triphenylene, naphthalene, anthracene, dibenzothiophene, dibenzofuran, dibenzoselenophene, carbazole, indolocarbazole, imidazole, pyridine, pyrazine, pyrimidine, triazine, and benzimidazole, and the respective aza-analogs of each thereof are of particular interest.

[0058] The terms alkyl, cycloalkyl, heteroalkyl, heterocycloalkyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl,

aralkyl, heterocyclic group, aryl, and heteroaryl, as used herein, are independently unsubstituted, or independently substituted, with one or more general substituents.

[0059] In many instances, the general substituents are selected from the group consisting of deuterium, halogen, alkyl, cycloalkyl, heteroalkyl, heterocycloalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof.

[0060] In some instances, the preferred general substituents are selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, heteroalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, aryl, heteroaryl, nitrile, isonitrile, sulfanyl, and combinations thereof.

[0061] In some instances, the preferred general substituents are selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, alkoxy, aryloxy, amino, silyl, aryl, heteroaryl, sulfanyl, and combinations thereof.

[0062] In yet other instances, the more preferred general substituents are selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, aryl, heteroaryl, and combinations thereof.

[0063] The terms “substituted” and “substitution” refer to a substituent other than H that is bonded to the relevant position, e.g., a carbon or nitrogen. For example, when R¹ represents mono-substitution, then one R¹ must be other than H (i.e., a substitution). Similarly, when R¹ represents di-substitution, then two of R¹ must be other than H. Similarly, when R¹ represents no substitution, R¹, for example, can be a hydrogen for available valencies of ring atoms, as in carbon atoms for benzene and the nitrogen atom in pyrrole, or simply represents nothing for ring atoms with fully filled valencies, e.g., the nitrogen atom in pyridine. The maximum number of substitutions possible in a ring structure will depend on the total number of available valencies in the ring atoms.

[0064] As used herein, “combinations thereof” indicates that one or more members of the applicable list are combined to form a known or chemically stable arrangement that one of ordinary skill in the art can envision from the applicable list. For example, an alkyl and deuterium can be combined to form a partial or fully deuterated alkyl group; a halogen and alkyl can be combined to form a halogenated alkyl substituent; and a halogen, alkyl, and aryl can be combined to form a halogenated arylalkyl. In one instance, the term substitution includes a combination of two to four of the listed groups. In another instance, the term substitution includes a combination of two to three groups. In yet another instance, the term substitution includes a combination of two groups. Preferred combinations of substituent groups are those that contain up to fifty atoms that are not hydrogen or deuterium, or those which include up to forty atoms that are not hydrogen or deuterium, or those that include up to thirty atoms that are not hydrogen or deuterium. In many instances, a preferred combination of substituent groups will include up to twenty atoms that are not hydrogen or deuterium.

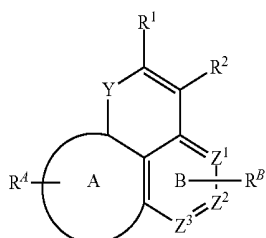
[0065] The “aza” designation in the fragments described herein, i.e. aza-dibenzofuran, aza-dibenzothiophene, etc. means that one or more of the C—H groups in the respective aromatic ring can be replaced by a nitrogen atom, for example, and without any limitation, azatriphenylene

encompasses both dibenzo[f,h]quinoxaline and dibenzo[f,h]quinoline. One of ordinary skill in the art can readily envision other nitrogen analogs of the aza-derivatives described above, and all such analogs are intended to be encompassed by the terms as set forth herein.

[0066] As used herein, “deuterium” refers to an isotope of hydrogen. Deuterated compounds can be readily prepared using methods known in the art. For example, U.S. Pat. No. 8,557,400, Patent Pub. No. WO 2006/095951, and U.S. Pat. Application Pub. No. US 2011/0037057, which are hereby incorporated by reference in their entireties, describe the making of deuterium-substituted organometallic complexes. Further reference is made to Ming Yan, et al., *Tetrahedron* 2015, 71, 1425-30 and Atzrodt et al., *Angew. Chem. Int. Ed. (Reviews)* 2007, 46, 7744-65, which are incorporated by reference in their entireties, describe the deuteration of the methylene hydrogens in benzyl amines and efficient pathways to replace aromatic ring hydrogens with deuterium, respectively.

[0067] It is to be understood that when a molecular fragment is described as being a substituent or otherwise attached to another moiety, its name may be written as if it were a fragment (e.g. phenyl, phenylene, naphthyl, dibenzofuryl) or as if it were the whole molecule (e.g. benzene, naphthalene, dibenzofuran). As used herein, these different ways of designating a substituent or attached fragment are considered to be equivalent.

[0068] A compound comprising a first ligand L^A of Formula I



is disclosed. In Formula I, Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

[0069] Z^1 , Z^2 , and Z^3 are each independently selected from the group comprising C and N;

[0070] Y is selected from the group consisting of O, S, Se, NR^3 , CRR' , $SiRR'$, $GeRR'$, and a single bond; a metal M forms a direct bond to Ring A or Ring B;

[0071] M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au; R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution; R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl, cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

[0072] one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

[0073] the ligand L^A is optionally linked with other ligands to form a ligand having a denticity of tridentate to a maximum possible denticity to which M can coordinate;

[0074] any two substituents may be joined or fused together to form a ring, provided that R^1 and R^2 are not joined to form a 6-membered aromatic ring when Y is a single bond; and

[0075] M is optionally coordinated to other ligands.

[0076] In some embodiments of the compound, R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, heteroalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, aryl, heteroaryl, nitrile, isonitrile, sulfanyl, and combinations thereof.

[0077] In some embodiments of the compound, M is selected from the group consisting of Ir and Pt. In some embodiments, M is selected from the group consisting of Ir(III) and Pt(II). In some embodiments, R^1 and R^2 are H. In some embodiments, Y is a single bond.

[0078] In some embodiments of the compound, Y is selected from the group consisting of O, S, and NR^3 . In some embodiments, one of R^A or R^B comprises a benzene ring, that is bonded to M. In some embodiments, one of R^A or R^B comprises a pyridine ring, that is bonded to M.

[0079] In some embodiments, one of Z^1 , Z^2 , and Z^3 is N and forms a dative bond to M, and the remaining two of Z^1 , Z^2 , and Z^3 is C.

[0080] In some embodiments, Ring A contains an N atom that forms a dative bond to M.

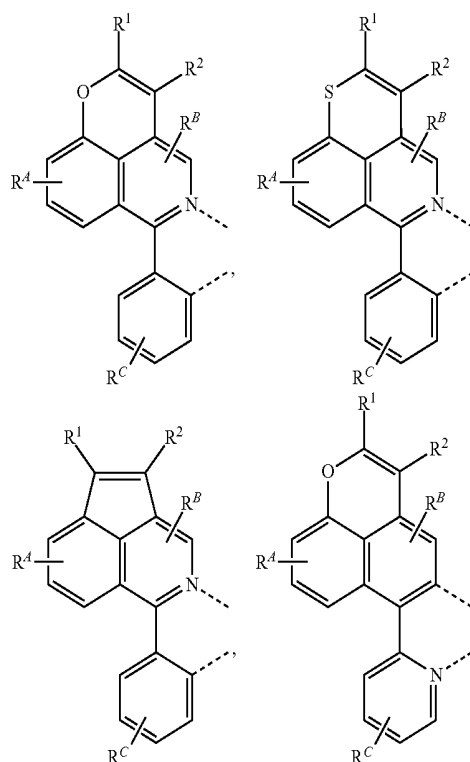
[0081] In some embodiments, the compound is homoleptic. In some embodiments, the compound is heteroleptic.

[0082] In some embodiments, Ring A is a 5-membered aromatic ring. In some embodiments, Ring A is a 6-membered aromatic ring.

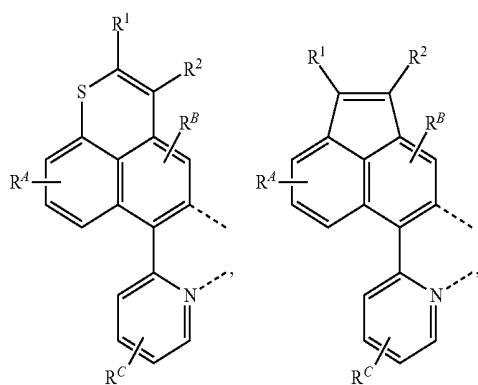
[0083] In some embodiments, Z^1 , Z^2 , and Z^3 are each C.

[0084] In some embodiments, Ring A contains only C atoms. In some embodiments, Ring A contains at least one N atom.

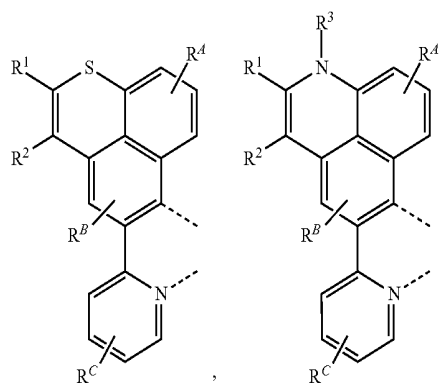
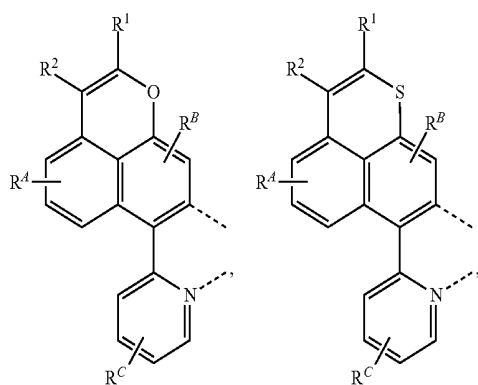
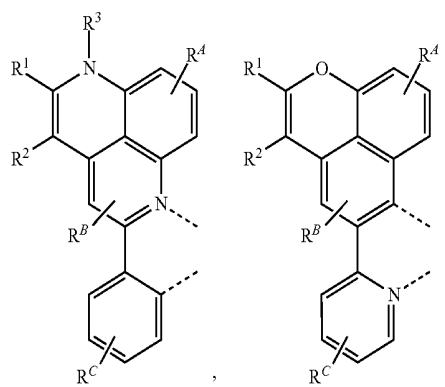
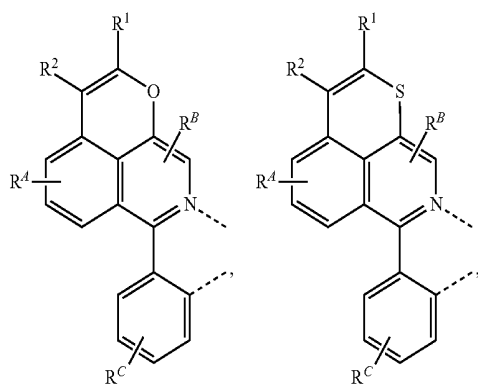
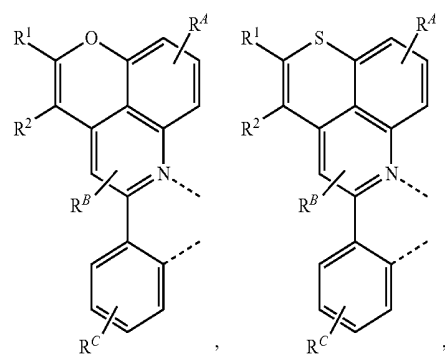
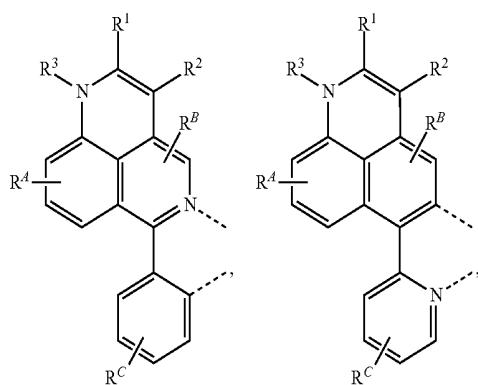
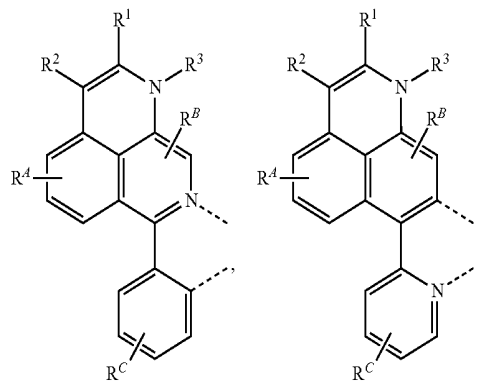
[0085] In some embodiments, the first ligand L^A is selected from the group consisting of:



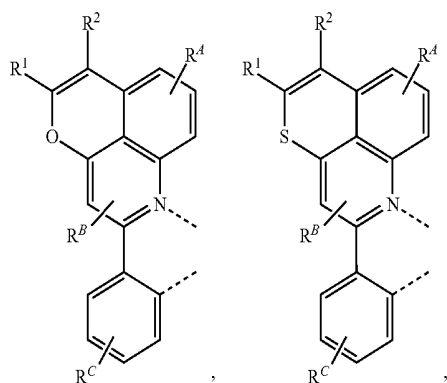
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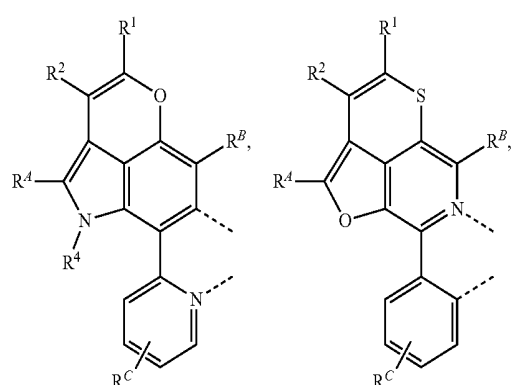
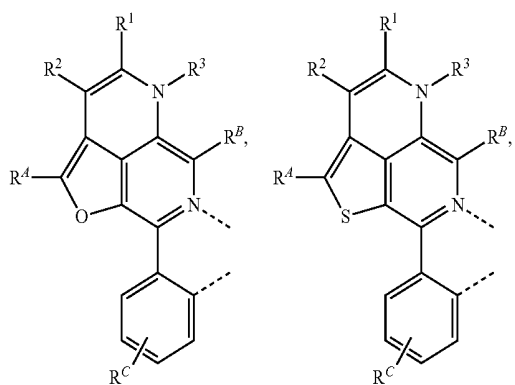
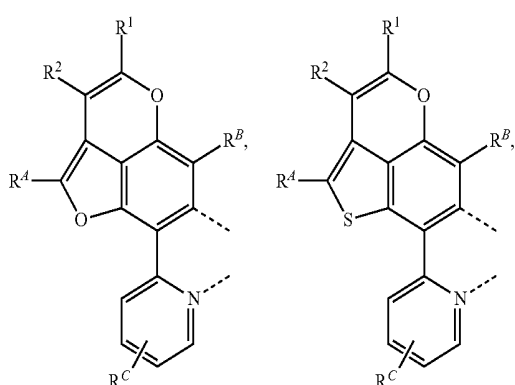
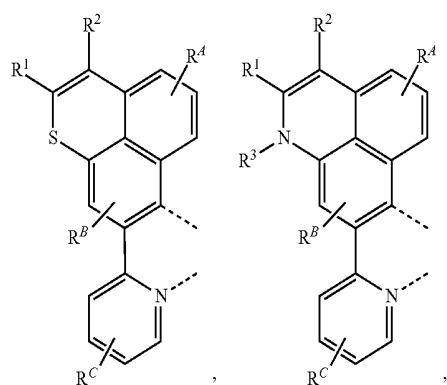
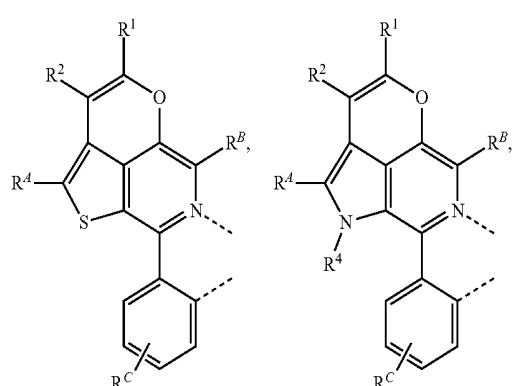
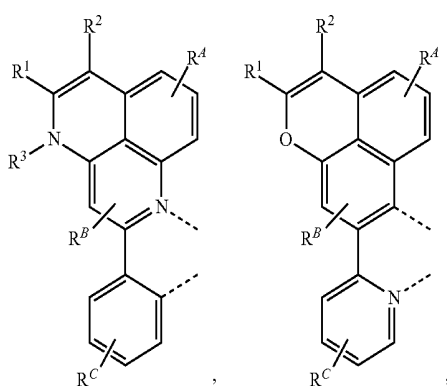
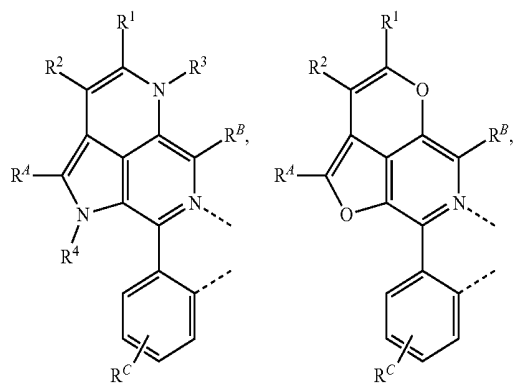
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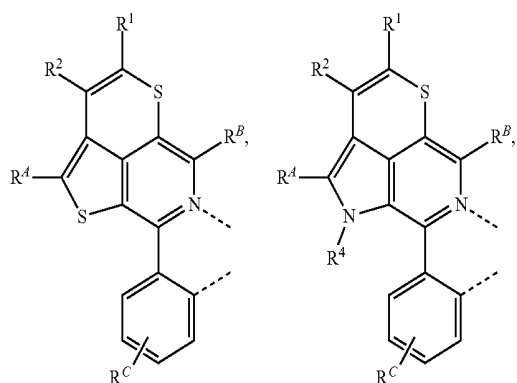
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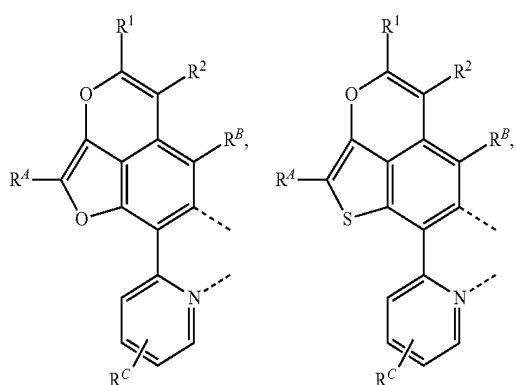
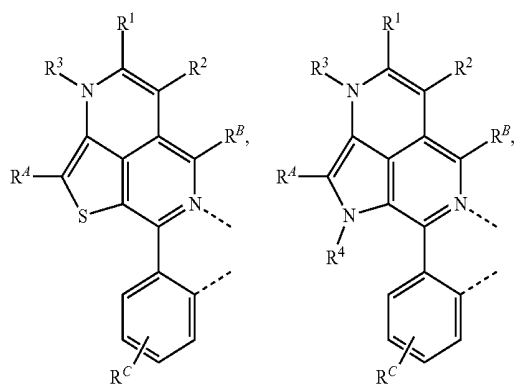
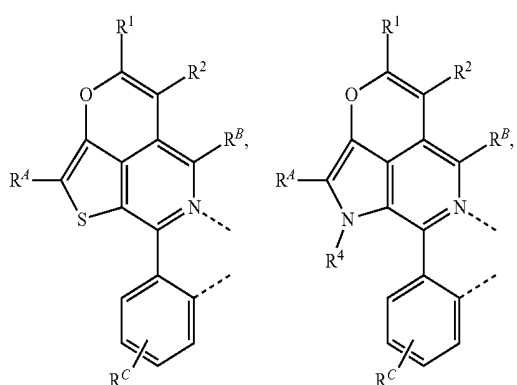
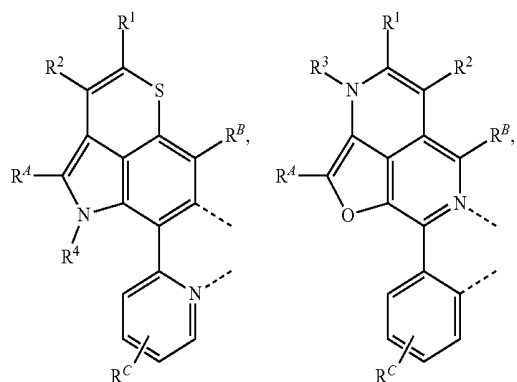
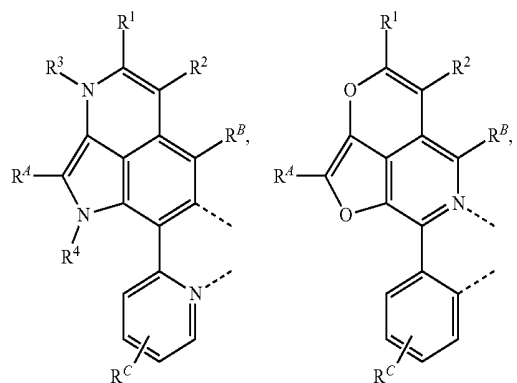
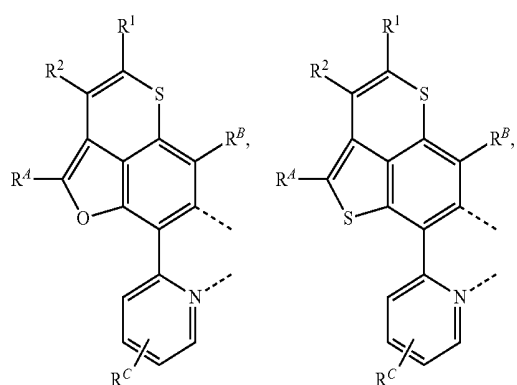
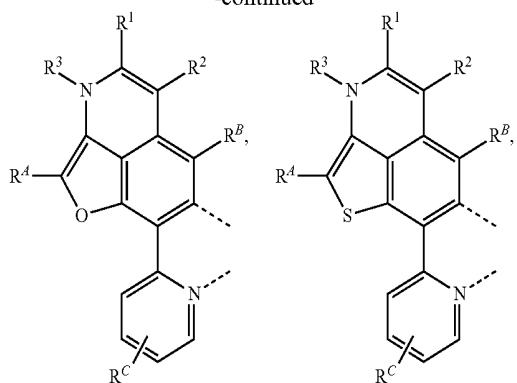
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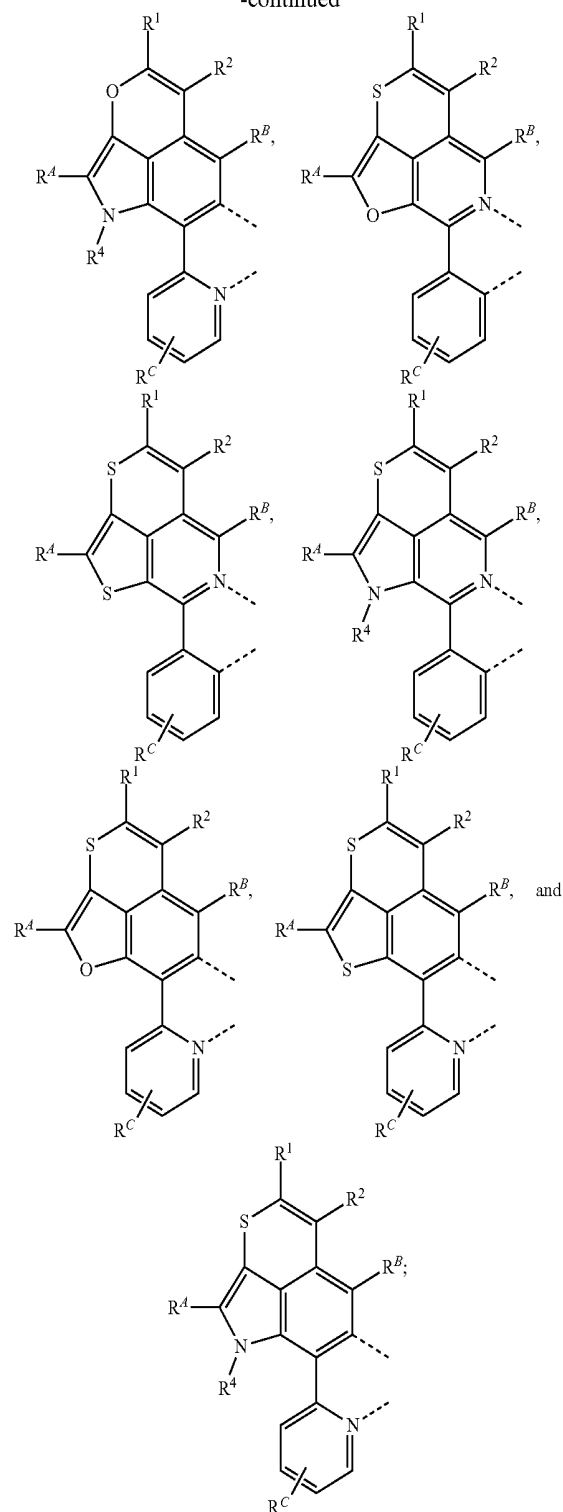
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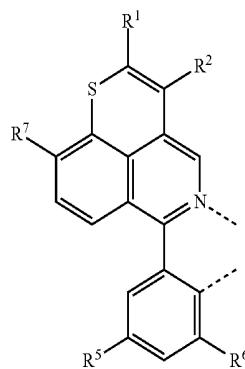
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[0086] wherein,

[0087] R^C represents mono to a maximum possible number of substitutions, or no substitution; and[0088] R^C and R⁴ are each independently a hydrogen or a substituent selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, heteroalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, aryl, heteroaryl, nitrile, isonitrile, sulfanyl, and combinations thereof.[0089] In some embodiments, L_A is selected from the group consisting of L₄₁ through L₄₂₉₄ having structures of Formula Iwherein R¹, R², R⁵, R⁶, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁	H	H	H	H	H
L ₄₂	R ^{B1}	H	H	H	H
L ₄₃	R ^{B1}	R ^{B1}	H	H	H
L ₄₄	R ^{B1}	R ^{B1}	R ^{B1}	H	H
L ₄₅	R ^{B1}	H	R ^{B1}	H	H
L ₄₆	H	H	R ^{B1}	H	H
L ₄₇	H	H	H	R ^{B1}	R ^{B1}
L ₄₈	R ^{B1}	H	H	R ^{B1}	R ^{B1}
L ₄₉	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₂	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₃	H	H	H	R ^{B44}	R ^{B44}
L ₄₁₄	R ^{B1}	H	H	R ^{B44}	R ^{B44}
L ₄₁₅	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₇	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈	H	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉	H	H	R ^{A34}	H	H
L ₄₂₀	R ^{B1}	H	R ^{A34}	H	H
L ₄₂₁	H	R ^{B1}	R ^{A34}	H	H
L ₄₂₂	R ^{B1}	R ^{B1}	R ^{A34}	H	H
L ₄₂₃	H	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₂₄	R ^{B1}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₂₅	H	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₂₆	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₂₇	H	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₂₈	R ^{B1}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₂₉	H	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₃₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₃₁	H	H	R ^{B18}	H	H
L ₄₃₂	R ^{B1}	H	R ^{B18}	H	H
L ₄₃₃	H	R ^{B1}	R ^{B18}	H	H
L ₄₃₄	R ^{B1}	R ^{B1}	R ^{B18}	H	H
L ₄₃₅	H	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₆	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₇	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₉	H	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₀	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₁	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₃	H	H	R ^{B3}	H	H
L ₄₄₄	R ^{B1}	H	R ^{B3}	H	H
L ₄₄₅	H	R ^{B1}	R ^{B3}	H	H
L ₄₄₆	R ^{B1}	R ^{B1}	R ^{B3}	H	H
L ₄₄₇	H	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₈	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₉	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₅₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₅₁	H	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₅₂	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₅₃	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₅₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₅₅	H	H	R ^{B4}	H	H
L ₄₅₆	R ^{B1}	H	R ^{B4}	H	H
L ₄₅₇	H	R ^{B1}	R ^{B4}	H	H
L ₄₅₈	R ^{B1}	R ^{B1}	R ^{B4}	H	H
L ₄₅₉	H	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₀	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₁	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₃	H	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₄	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₇	H	H	R ^{B7}	H	H
L ₄₆₈	R ^{B1}	H	R ^{B7}	H	H
L ₄₆₉	H	R ^{B1}	R ^{B7}	H	H
L ₄₇₀	R ^{B1}	R ^{B1}	R ^{B7}	H	H
L ₄₇₁	H	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₂	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₃	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₄	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₅	H	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₆	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₇	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₉	R ^{B3}	H	H	H	H
L ₄₈₀	R ^{B3}	R ^{B1}	H	H	H
L ₄₈₁	R ^{B3}	R ^{B1}	R ^{B1}	H	H
L ₄₈₂	R ^{B3}	H	R ^{B1}	H	H
L ₄₈₃	R ^{B3}	H	H	R ^{B1}	R ^{B1}
L ₄₈₄	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₅	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₆	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₇	R ^{B3}	H	H	R ^{B44}	R ^{B44}
L ₄₈₈	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₈₉	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₉₀	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₉₁	R ^{B3}	H	R ⁴³⁴	H	H
L ₄₉₂	R ^{B3}	R ⁴³⁴	H	H	H
L ₄₉₃	R ^{B3}	R ^{B1}	R ⁴³⁴	H	H
L ₄₉₄	R ^{B3}	R ⁴³⁴	R ^{B1}	H	H
L ₄₉₅	R ^{B3}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₉₆	R ^{B3}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₉₇	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₉₈	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₉	R ^{B3}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₁₁₀₀	R ^{B3}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₁₁₀₁	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₁₁₀₂	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₁₁₀₃	R ^{B3}	H	R ^{B18}	H	H
L ₁₁₀₄	R ^{B3}	R ^{B18}	H	H	H
L ₁₁₀₅	R ^{B3}	R ^{B1}	R ^{B18}	H	H
L ₁₁₀₆	R ^{B3}	R ^{B18}	R ^{B1}	H	H
L ₁₁₀₇	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₁₁₀₈	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₁₁₀₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₁₁₁₀	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₁₁	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₁₁₁₂	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₁₁₁₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₁₁₁₄	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₁₁₁₅	R ^{B3}	H	R ^{B3}	H	H
L ₁₁₁₆	R ^{B3}	R ^{B3}	H	H	H
L ₁₁₁₇	R ^{B3}	R ^{B1}	R ^{B3}	H	H
L ₁₁₁₈	R ^{B3}	R ^{B3}	R ^{B1}	H	H
L ₁₁₁₉	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₁₁₂₀	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₁₁₂₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₁₁₂₂	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₂₃	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₁₁₂₄	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₁₁₂₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₁₁₂₆	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}

-continued

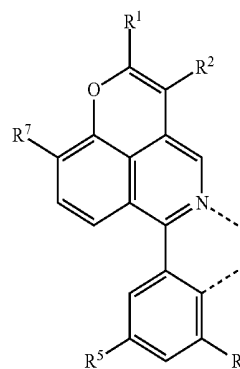
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₂₇	R ^{B3}	H	R ^{B4}	H	H
L ₄₁₂₈	R ^{B3}	R ^{B4}	H	H	H
L ₄₁₂₉	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₁₃₀	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₁₃₁	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₃₂	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₁₃₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₃₄	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₃₅	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₃₆	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₁₃₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₃₈	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₃₉	R ^{B3}	H	R ^{B7}	H	H
L ₄₁₄₀	R ^{B3}	R ^{B7}	H	H	H
L ₄₁₄₁	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₁₄₂	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₁₄₃	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₄₄	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₁₄₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₄₆	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₄₇	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₄₈	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₁₄₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₅₀	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₅₁	R ^{B2}	H	H	H	H
L ₄₁₅₂	R ^{B2}	R ^{B1}	H	H	H
L ₄₁₅₃	R ^{B2}	R ^{B1}	R ^{B1}	H	H
L ₄₁₅₄	R ^{B2}	H	R ^{B1}	H	H
L ₄₁₅₅	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₁₅₆	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₅₇	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₅₈	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₅₉	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₁₆₀	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₆₁	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₆₂	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₆₃	R ^{B2}	H	R ⁴³⁴	H	H
L ₄₁₆₄	R ^{B2}	R ⁴³⁴	H	H	H
L ₄₁₆₅	R ^{B2}	R ^{B1}	R ⁴³⁴	H	H
L ₄₁₆₆	R ^{B2}	R ⁴³⁴	R ^{B1}	H	H
L ₄₁₆₇	R ^{B2}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₆₈	R ^{B2}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₁₆₉	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₇₀	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₇₁	R ^{B2}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₇₂	R ^{B2}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₁₇₃	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₇₄	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₇₅	R ^{B2}	H	R ^{B18}	H	H
L ₄₁₇₆	R ^{B2}	R ^{B18}	H	H	H
L ₄₁₇₇	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₁₇₈	R ^{B2}	R ^{B18}	R ^{B1}	H	H
L ₄₁₇₉	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₀	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₁₈₁	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₂	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₃	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₄	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₁₈₅	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₆	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₇	R ^{B2}	H	R ^{B3}	H	H
L ₄₁₈₈	R ^{B2}	R ^{B3}	H	H	H
L ₄₁₈₉	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₁₉₀	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₁₉₁	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₂	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₁₉₃	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₄	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₅	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₆	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₁₉₇	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₈	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₉	R ^{B2}	H	R ^{B4}	H	H
L ₄₂₀₀	R ^{B2}	R ^{B4}	H	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₀₁	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₂₀₂	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₂₀₃	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₄	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₀₅	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₆	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₇	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₀₈	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₀₉	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₁₀	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₁₁	R ^{B2}	H	R ^{B7}	H	H
L ₄₂₁₂	R ^{B2}	R ^{B7}	H	H	H
L ₄₂₁₃	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₂₁₄	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₂₁₅	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₆	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₁₇	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₈	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₉	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₂₀	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₂₁	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₂₂	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₂₃	R ^{B4}	H	H	H	H
L ₄₂₂₄	R ^{B4}	R ^{B1}	H	H	H
L ₄₂₂₅	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₂₂₆	R ^{B4}	H	R ^{B1}	H	H
L ₄₂₂₇	R ^{B4}	H	H	R ^{B1}	R ^{B1}
L ₄₂₂₈	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₂₂₉	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₃₀	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₃₁	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₂₃₂	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₂₃₃	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₃₄	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₃₅	R ^{B4}	H	R ^{A34}	H	H
L ₄₂₃₆	R ^{B4}	R ^{A34}	H	H	H
L ₄₂₃₇	R ^{B4}	R ^{B1}	R ^{A34}	H	H
L ₄₂₃₈	R ^{B4}	R ^{A34}	R ^{B1}	H	H
L ₄₂₃₉	R ^{B4}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₂₄₀	R ^{B4}	R ^{A34}	H	R ^{B1}	R ^{B1}
L ₄₂₄₁	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₂₄₂	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₄₃	R ^{B4}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₂₄₄	R ^{B4}	R ^{A34}	H	R ^{B44}	R ^{B44}
L ₄₂₄₅	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₂₄₆	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₄₇	R ^{B4}	H	R ^{B18}	H	H
L ₄₂₄₈	R ^{B4}	R ^{B18}	H	H	H
L ₄₂₄₉	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₂₅₀	R ^{B4}	R ^{B18}	R ^{B1}	H	H
L ₄₂₅₁	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₅₂	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₂₅₃	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₅₄	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₅₅	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₅₆	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₂₅₇	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₅₈	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₅₉	R ^{B4}	H	R ^{B3}	H	H
L ₄₂₆₀	R ^{B4}	R ^{B3}	H	H	H
L ₄₂₆₁	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₂₆₂	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₂₆₃	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₆₄	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₂₆₅	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₆₆	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₆₇	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₆₈	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₂₆₉	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₇₀	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₇₁	R ^{B4}	H	R ^{B4}	H	H
L ₄₂₇₂	R ^{B4}	R ^{B4}	H	H	H
L ₄₂₇₃	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₂₇₄	R ^{B4}	R ^{B4}	R ^{B1}	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₇₅	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₇₆	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₇₇	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₇₈	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₇₉	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₈₀	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₈₁	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₈₂	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₈₃	R ^{B4}	H	R ^{B7}	H	H
L ₄₂₈₄	R ^{B4}	R ^{B7}	H	H	H
L ₄₂₈₅	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₂₈₆	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₂₈₇	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₈₈	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₈₉	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₉₀	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₉₁	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₉₂	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₉₃	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₉₄	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

L₄₂₉₅ through L₄₅₈₈ having structures of Formula IIwherein R¹, R², R⁵, R⁶, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₉₅	H	H	H	H	H
L ₄₂₉₆	R ^{B1}	H	H	H	H
L ₄₂₉₇	R ^{B1}	R ^{B1}	H	H	H
L ₄₂₉₈	R ^{B1}	R ^{B1}	R ^{B1}	H	H
L ₄₂₉₉	R ^{B1}	H	R ^{B1}	H	H
L ₄₃₀₀	H	H	R ^{B1}	H	H
L ₄₃₀₁	H	H	H	R ^{B1}	R ^{B1}
L ₄₃₀₂	R ^{B1}	H	H	R ^{B1}	R ^{B1}
L ₄₃₀₃	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₃₀₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₀₅	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₀₆	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₀₇	H	H	H	R ^{B44}	R ^{B44}
L ₄₃₀₈	R ^{B1}	H	H	R ^{B44}	R ^{B44}
L ₄₃₀₉	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₃₁₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₁₁	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₁₂	H	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₁₃	H	H	R ^{A34}	H	H
L ₄₃₁₄	R ^{B1}	H	R ^{A34}	H	H
L ₄₃₁₅	H	R ^{B1}	R ^{A34}	H	H
L ₄₃₁₆	R ^{B1}	R ^{B1}	R ^{A34}	H	H
L ₄₃₁₇	H	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₃₁₈	R ^{B1}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₃₁₉	H	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₃₂₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₃₂₁	H	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₃₂₂	R ^{B1}	H	R ^{A34}	R ^{B44}	R ^{B44}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₃₂₃	H	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₃₂₄	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₃₂₅	H	H	R ^{B18}	H	H
L ₄₃₂₆	R ^{B1}	H	R ^{B18}	H	H
L ₄₃₂₇	H	R ^{B1}	R ^{B18}	H	H
L ₄₃₂₈	R ^{B1}	R ^{B1}	R ^{B18}	H	H
L ₄₃₂₉	H	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₀	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₁	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₃	H	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₄	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₅	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₇	H	H	R ^{B3}	H	H
L ₄₃₃₈	R ^{B1}	H	R ^{B3}	H	H
L ₄₃₃₉	H	R ^{B1}	R ^{B3}	H	H
L ₄₃₄₀	R ^{B1}	R ^{B1}	R ^{B3}	H	H
L ₄₃₄₁	H	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₂	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₃	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₅	H	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₆	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₇	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₉	H	H	R ^{B4}	H	H
L ₄₃₅₀	R ^{B1}	H	R ^{B4}	H	H
L ₄₃₅₁	H	R ^{B1}	R ^{B4}	H	H
L ₄₃₅₂	R ^{B1}	R ^{B1}	R ^{B4}	H	H
L ₄₃₅₃	H	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₄	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₅	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₇	H	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₅₈	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₅₉	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₆₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₆₁	H	H	R ^{B7}	H	H
L ₄₃₆₂	R ^{B1}	H	R ^{B7}	H	H
L ₄₃₆₃	H	R ^{B1}	R ^{B7}	H	H
L ₄₃₆₄	R ^{B1}	R ^{B1}	R ^{B7}	H	H
L ₄₃₆₅	H	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₆	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₇	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₉	H	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₀	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₁	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₃	R ^{B3}	H	H	H	H
L ₄₃₇₄	R ^{B3}	R ^{B1}	H	H	H
L ₄₃₇₅	R ^{B3}	R ^{B1}	R ^{B1}	H	H
L ₄₃₇₆	R ^{B3}	H	R ^{B1}	H	H
L ₄₃₇₇	R ^{B3}	H	H	R ^{B1}	R ^{B1}
L ₄₃₇₈	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₃₇₉	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₈₀	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₈₁	R ^{B3}	H	H	R ^{B44}	R ^{B44}
L ₄₃₈₂	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₃₈₃	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₈₄	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₈₅	R ^{B3}	H	R ^{A34}	H	H
L ₄₃₈₆	R ^{B3}	R ^{A34}	H	H	H
L ₄₃₈₇	R ^{B3}	R ^{B1}	R ^{A34}	H	H
L ₄₃₈₈	R ^{B3}	R ^{A34}	R ^{B1}	H	H
L ₄₃₈₉	R ^{B3}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₃₉₀	R ^{B3}	R ^{A34}	H	R ^{B1}	R ^{B1}
L ₄₃₉₁	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₃₉₂	R ^{B3}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₉₃	R ^{B3}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₃₉₄	R ^{B3}	R ^{A34}	H	R ^{B44}	R ^{B44}
L ₄₃₉₅	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₃₉₆	R ^{B3}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}

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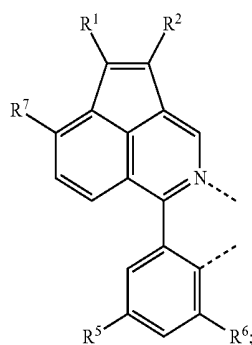
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₃₉₇	R ^{B3}	H	R ^{B18}	H	H
L ₄₃₉₈	R ^{B3}	R ^{B18}	H	H	H
L ₄₃₉₉	R ^{B3}	R ^{B1}	R ^{B18}	H	H
L ₄₄₀₀	R ^{B3}	R ^{B18}	R ^{B1}	H	H
L ₄₄₀₁	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₀₂	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₄₀₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₀₄	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₀₅	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₀₆	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₄₀₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₀₈	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₀₉	R ^{B3}	H	R ^{B3}	H	H
L ₄₄₁₀	R ^{B3}	R ^{B3}	H	H	H
L ₄₄₁₁	R ^{B3}	R ^{B1}	R ^{B3}	H	H
L ₄₄₁₂	R ^{B3}	R ^{B3}	R ^{B1}	H	H
L ₄₄₁₃	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₁₄	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₄₁₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₁₆	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₁₇	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₁₈	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₄₁₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₂₀	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₂₁	R ^{B3}	H	R ^{B4}	H	H
L ₄₄₂₂	R ^{B3}	R ^{B4}	H	H	H
L ₄₄₂₃	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₄₂₄	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₄₂₅	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₄₂₆	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₄₂₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₄₂₈	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₂₉	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₄₃₀	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₄₃₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₄₃₂	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₃₃	R ^{B3}	H	R ^{B7}	H	H
L ₄₄₃₄	R ^{B3}	R ^{B7}	H	H	H
L ₄₄₃₅	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₄₃₆	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₄₃₇	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₄₃₈	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₄₃₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₄₄₀	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₄₁	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₄₄₂	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₄₄₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₄₄₄	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₄₅	R ^{B2}	H	H	H	H
L ₄₄₄₆	R ^{B2}	R ^{B1}	H	H	H
L ₄₄₄₇	R ^{B2}	R ^{B1}	R ^{B1}	H	H
L ₄₄₄₈	R ^{B2}	H	R ^{B1}	H	H
L ₄₄₄₉	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₄₅₀	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₄₅₁	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₅₂	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₄₅₃	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₄₅₄	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₅₅	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₅₆	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₅₇	R ^{B2}	H	R ^{A34}	H	H
L ₄₄₅₈	R ^{B2}	R ^{A34}	H	H	H
L ₄₄₅₉	R ^{B2}	R ^{B1}	R ^{A34}	H	H
L ₄₄₆₀	R ^{B2}	R ^{A34}	R ^{B1}	H	H
L ₄₄₆₁	R ^{B2}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₄₆₂	R ^{B2}	R ^{A34}	H	R ^{B1}	R ^{B1}
L ₄₄₆₃	R ^{B2}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₄₆₄	R ^{B2}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₆₅	R ^{B2}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₄₆₆	R ^{B2}	R ^{A34}	H	R ^{B44}	R ^{B44}
L ₄₄₆₇	R ^{B2}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₄₆₈	R ^{B2}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₆₉	R ^{B2}	H	R ^{B18}	H	H
L ₄₄₇₀	R ^{B2}	R ^{B18}	H	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₄₇₁	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₄₇₂	R ^{B2}	R ^{B18}	R ^{B1}	H	H
L ₄₄₇₃	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₇₄	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₄₇₅	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₇₆	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₇₇	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₇₈	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₄₇₉	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₈₀	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₈₁	R ^{B2}	H	R ^{B3}	H	H
L ₄₄₈₂	R ^{B2}	R ^{B3}	H	H	H
L ₄₄₈₃	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₄₈₄	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₄₈₅	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₈₆	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₄₈₇	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₈₈	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₈₉	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₉₀	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₄₉₁	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₉₂	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₉₃	R ^{B2}	H	R ^{B4}	H	H
L ₄₄₉₄	R ^{B2}	R ^{B4}	H	H	H
L ₄₄₉₅	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₄₉₆	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₄₉₇	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₄₉₈	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₄₉₉	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₅₀₀	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₀₁	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₀₂	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₅₀₃	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₀₄	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₀₅	R ^{B2}	H	R ^{B7}	H	H
L ₄₅₀₆	R ^{B2}	R ^{B7}	H	H	H
L ₄₅₀₇	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₅₀₈	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₅₀₉	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₁₀	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₅₁₁	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₁₂	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₁₃	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₁₄	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₅₁₅	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₁₆	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₁₇	R ^{B4}	H	H	H	H
L ₄₅₁₈	R ^{B4}	R ^{B1}	H	H	H
L ₄₅₁₉	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₅₂₀	R ^{B4}	H	R ^{B1}	H	H
L ₄₅₂₁	R ^{B4}	H	H	R ^{B1}	R ^{B1}
L ₄₅₂₂	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₅₂₃	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₂₄	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₂₅	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₅₂₆	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₅₂₇	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₂₈	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₂₉	R ^{B4}	H	R ^{B1}	H	H
L ₄₅₃₀	R ^{B4}	R ^{A34}	H	H	H
L ₄₅₃₁	R ^{B4}	R ^{B1}	R ^{A34}	H	H
L ₄₅₃₂	R ^{B4}	R ^{A34}	R ^{B1}	H	H
L ₄₅₃₃	R ^{B4}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₅₃₄	R ^{B4}	R ^{A34}	H	R ^{B1}	R ^{B1}
L ₄₅₃₅	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₅₃₆	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₃₇	R ^{B4}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₅₃₈	R ^{B4}	R ^{A34}	H	R ^{B44}	R ^{B44}
L ₄₅₃₉	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₅₄₀	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₄₁	R ^{B4}	H	R ^{B18}	H	H
L ₄₅₄₂	R ^{B4}	R ^{B18}	H	H	H
L ₄₅₄₃	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₅₄₄	R ^{B4}	R ^{B18}	R ^{B1}	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₅₄₅	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₅₄₆	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₅₄₇	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₅₄₈	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₄₉	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₅₅₀	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₅₅₁	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₅₅₂	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₅₃	R ^{B4}	H	R ^{B3}	H	H
L ₄₅₅₄	R ^{B4}	R ^{B3}	H	H	H
L ₄₅₅₅	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₅₅₆	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₅₅₇	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₅₅₈	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₅₅₉	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₅₆₀	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₆₁	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₅₆₂	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₅₆₃	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₅₆₄	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₆₅	R ^{B4}	H	R ^{B4}	H	H
L ₄₅₆₆	R ^{B4}	R ^{B4}	H	H	H
L ₄₅₆₇	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₅₆₈	R ^{B4}	R ^{B4}	R ^{B1}	H	H
L ₄₅₆₉	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₅₇₀	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₅₇₁	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₅₇₂	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₇₃	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₇₄	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₅₇₅	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₇₆	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₇₇	R ^{B4}	H	R ^{B7}	H	H
L ₄₅₇₈	R ^{B4}	R ^{B7}	H	H	H
L ₄₅₇₉	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₅₈₀	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₅₈₁	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₈₂	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₅₈₃	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₈₄	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₈₅	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₈₆	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₅₈₇	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₈₈	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

L₄₅₈₉ through L₄₈₈₂ having structures of Formula IIIwherein R¹, R², R⁵, R⁶, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₅₈₉	H	H	H	H	H
L ₄₅₉₀	R ^{B1}	H	H	H	H
L ₄₅₉₁	R ^{B1}	R ^{B1}	H	H	H
L ₄₅₉₂	R ^{B1}	R ^{B1}	R ^{B1}	H	H
L ₄₅₉₃	R ^{B1}	H	R ^{B1}	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₅₉₄	H	H	R ^{B1}	H	H
L ₄₅₉₅	H	H	H	R ^{B1}	R ^{B1}
L ₄₅₉₆	R ^{B1}	H	H	R ^{B1}	R ^{B1}
L ₄₅₉₇	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₅₉₈	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₉₉	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₀₀	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₀₁	H	H	H	R ^{B44}	R ^{B44}
L ₄₆₀₂	R ^{B1}	H	H	R ^{B44}	R ^{B44}
L ₄₆₀₃	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₆₀₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₀₅	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₀₆	H	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₀₇	H	H	R ⁴³⁴	H	H
L ₄₆₀₈	R ^{B1}	H	R ⁴³⁴	H	H
L ₄₆₀₉	H	R ^{B1}	R ⁴³⁴	H	H
L ₄₆₁₀	R ^{B1}	R ^{B1}	R ⁴³⁴	H	H
L ₄₆₁₁	H	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₂	R ^{B1}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₃	H	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₄	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₅	H	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₆	R ^{B1}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₇	H	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₈	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₉	H	H	R ^{B18}	H	H
L ₄₆₂₀	R ^{B1}	H	R ^{B18}	H	H
L ₄₆₂₁	H	R ^{B1}	R ^{B18}	H	H
L ₄₆₂₂	R ^{B1}	R ^{B1}	R ^{B18}	H	H
L ₄₆₂₃	H	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₄	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₅	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₇	H	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₂₈	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₂₉	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₃₀	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₃₁	H	H	R ^{B3}	H	H
L ₄₆₃₂	R ^{B1}	H	R ^{B3}	H	H
L ₄₆₃₃	H	R ^{B1}	R ^{B3}	H	H
L ₄₆₃₄	R ^{B1}	R ^{B1}	R ^{B3}	H	H
L ₄₆₃₅	H	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₆	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₇	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₉	H	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₀	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₁	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₃	H	H	R ^{B4}	H	H
L ₄₆₄₄	R ^{B1}	H	R ^{B4}	H	H
L ₄₆₄₅	H	R ^{B1}	R ^{B4}	H	H
L ₄₆₄₆	R ^{B1}	R ^{B1}	R ^{B4}	H	H
L ₄₆₄₇	H	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₄₈	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₄₉	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₅₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₅₁	H	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₂	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₃	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₅	H	H	R ^{B7}	H	H
L ₄₆₅₆	R ^{B1}	H	R ^{B7}	H	H
L ₄₆₅₇	H	R ^{B1}	R ^{B7}	H	H
L ₄₆₅₈	R ^{B1}	R ^{B1}	R ^{B7}	H	H
L ₄₆₅₉	H	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₀	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₁	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₃	H	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₄	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₅	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₇	R ^{B3}	H	H	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₆₆₈	R ^{B3}	R ^{B1}	H	H	H
L ₄₆₆₉	R ^{B3}	R ^{B1}	R ^{B1}	H	H
L ₄₆₇₀	R ^{B3}	H	R ^{B1}	H	H
L ₄₆₇₁	R ^{B3}	H	H	R ^{B1}	R ^{B1}
L ₄₆₇₂	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₆₇₃	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₇₄	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₇₅	R ^{B3}	H	H	R ^{B44}	R ^{B44}
L ₄₆₇₆	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₆₇₇	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₇₈	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₇₉	R ^{B3}	H	R ⁴³⁴	H	H
L ₄₆₈₀	R ^{B3}	R ⁴³⁴	H	H	H
L ₄₆₈₁	R ^{B3}	R ^{B1}	R ⁴³⁴	H	H
L ₄₆₈₂	R ^{B3}	R ⁴³⁴	R ^{B1}	H	H
L ₄₆₈₃	R ^{B3}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₈₄	R ^{B3}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₆₈₅	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₈₆	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₈₇	R ^{B3}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₈₈	R ^{B3}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₆₈₉	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₉₀	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₉₁	R ^{B3}	H	R ^{B18}	H	H
L ₄₆₉₂	R ^{B3}	R ^{B18}	H	H	H
L ₄₆₉₃	R ^{B3}	R ^{B1}	R ^{B18}	H	H
L ₄₆₉₄	R ^{B3}	R ^{B18}	R ^{B1}	H	H
L ₄₆₉₅	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₉₆	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₆₉₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₉₈	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₉₉	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₀₀	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₇₀₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₀₂	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₀₃	R ^{B3}	H	R ^{B3}	H	H
L ₄₇₀₄	R ^{B3}	R ^{B3}	H	H	H
L ₄₇₀₅	R ^{B3}	R ^{B1}	R ^{B3}	H	H
L ₄₇₀₆	R ^{B3}	R ^{B3}	R ^{B1}	H	H
L ₄₇₀₇	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₀₈	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₇₀₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₁₀	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₁₁	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₁₂	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₇₁₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₁₄	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₁₅	R ^{B3}	H	R ^{B4}	H	H
L ₄₇₁₆	R ^{B3}	R ^{B4}	H	H	H
L ₄₇₁₇	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₇₁₈	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₇₁₉	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₂₀	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₇₂₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₂₂	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₂₃	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₂₄	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₇₂₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₂₆	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₂₇	R ^{B3}	H	R ^{B7}	H	H
L ₄₇₂₈	R ^{B3}	R ^{B7}	H	H	H
L ₄₇₂₉	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₇₃₀	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₇₃₁	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₃₂	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₇₃₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₃₄	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₃₅	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₃₆	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₇₃₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₃₈	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₃₉	R ^{B2}	H	H	H	H
L ₄₇₄₀	R ^{B2}	R ^{B1}	H	H	H
L ₄₇₄₁	R ^{B2}	R ^{B1}	R ^{B1}	H	H

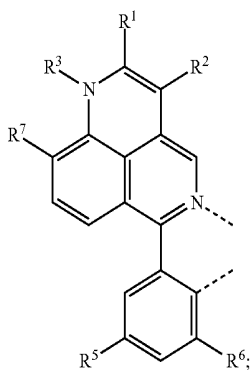
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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₇₄₂	R ^{B2}	H	R ^{B1}	H	H
L ₄₇₄₃	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₇₄₄	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₇₄₅	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₄₆	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₄₇	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₇₄₈	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₇₄₉	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₅₀	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₅₁	R ^{B2}	H	R ^{A34}	H	H
L ₄₇₅₂	R ^{B2}	R ^{A34}	H	H	H
L ₄₇₅₃	R ^{B2}	R ^{B1}	R ^{A34}	H	H
L ₄₇₅₄	R ^{B2}	R ^{A34}	R ^{B1}	H	H
L ₄₇₅₅	R ^{B2}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₇₅₆	R ^{B2}	R ^{A34}	H	R ^{B1}	R ^{B1}
L ₄₇₅₇	R ^{B2}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₇₅₈	R ^{B2}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₅₉	R ^{B2}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₇₆₀	R ^{B2}	R ^{A34}	H	R ^{B44}	R ^{B44}
L ₄₇₆₁	R ^{B2}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₇₆₂	R ^{B2}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₆₃	R ^{B2}	H	R ^{B18}	H	H
L ₄₇₆₄	R ^{B2}	R ^{B18}	H	H	H
L ₄₇₆₅	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₇₆₆	R ^{B2}	R ^{B18}	R ^{B1}	H	H
L ₄₇₆₇	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₇₆₈	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₇₆₉	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₇₇₀	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₇₁	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₇₂	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₇₇₃	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₇₄	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₇₅	R ^{B2}	H	R ^{B3}	H	H
L ₄₇₇₆	R ^{B2}	R ^{B3}	H	H	H
L ₄₇₇₇	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₇₇₈	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₇₇₉	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₈₀	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₇₈₁	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₈₂	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₈₃	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₈₄	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₇₈₅	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₈₆	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₈₇	R ^{B2}	H	R ^{B4}	H	H
L ₄₇₈₈	R ^{B2}	R ^{B4}	H	H	H
L ₄₇₈₉	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₇₉₀	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₇₉₁	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₉₂	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₇₉₃	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₉₄	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₉₅	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₉₆	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₇₉₇	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₉₈	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₉₉	R ^{B2}	H	R ^{B7}	H	H
L ₄₈₀₀	R ^{B2}	R ^{B7}	H	H	H
L ₄₈₀₁	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₈₀₂	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₈₀₃	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₀₄	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₈₀₅	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₀₆	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₀₇	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₀₈	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₈₀₉	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₁₀	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₁₁	R ^{B4}	H	H	H	H
L ₄₈₁₂	R ^{B4}	R ^{B1}	H	H	H
L ₄₈₁₃	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₈₁₄	R ^{B4}	H	R ^{B1}	H	H
L ₄₈₁₅	R ^{B4}	H	H	R ^{B1}	R ^{B1}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₈₁₆	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₈₁₇	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₁₈	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₁₉	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₈₂₀	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₈₂₁	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₂₂	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₂₃	R ^{B4}	H	R ^{A34}	H	H
L ₄₈₂₄	R ^{B4}	R ^{A34}	H	H	H
L ₄₈₂₅	R ^{B4}	R ^{B1}	R ^{A34}	H	H
L ₄₈₂₆	R ^{B4}	R ^{A34}	R ^{B1}	H	H
L ₄₈₂₇	R ^{B4}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₈₂₈	R ^{B4}	R ^{A34}	H	R ^{B1}	R ^{B1}
L ₄₈₂₉	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₈₃₀	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₃₁	R ^{B4}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₈₃₂	R ^{B4}	R ^{A34}	H	R ^{B44}	R ^{B44}
L ₄₈₃₃	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₈₃₄	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₃₅	R ^{B4}	H	R ^{B18}	H	H
L ₄₈₃₆	R ^{B4}	R ^{B18}	H	H	H
L ₄₈₃₇	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₈₃₈	R ^{B4}	R ^{B18}	R ^{B1}	H	H
L ₄₈₃₉	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₈₄₀	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₈₄₁	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₈₄₂	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₄₃	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₈₄₄	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₈₄₅	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₈₄₆	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₄₇	R ^{B4}	H	R ^{B3}	H	H
L ₄₈₄₈	R ^{B4}	R ^{B3}	H	H	H
L ₄₈₄₉	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₈₅₀	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₈₅₁	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₈₅₂	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₈₅₃	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₈₅₄	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₅₅	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₈₅₆	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₈₅₇	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₈₅₈	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₅₉	R ^{B4}	H	R ^{B4}	H	H
L ₄₈₆₀	R ^{B4}	R ^{B4}	H	H	H
L ₄₈₆₁	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₈₆₂	R ^{B4}	R ^{B4}	R ^{B1}	H	H
L ₄₈₆₃	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₈₆₄	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₈₆₅	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₈₆₆	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₆₇	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₈₆₈	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₈₆₉	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₈₇₀	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₇₁	R ^{B4}	H	R ^{B7}	H	H
L ₄₈₇₂	R ^{B4}	R ^{B7}	H	H	H
L ₄₈₇₃	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₈₇₄	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₈₇₅	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₇₆	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₈₇₇	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₇₈	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₇₉	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₈₀	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₈₈₁	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₈₂	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

L_{4883} through L_{41834} having structures of Formula IV



wherein R^1 , R^2 , R^3 , R^5 , R^6 , and R^7 are defined:

Ligand	R^1	R^2	R^7	R^6	R^5	R^3
L_{4883}	H	H	H	H	H	R^{B1}
L_{4884}	R^{B1}	H	H	H	H	R^{B1}
L_{4885}	R^{B1}	R^{B1}	H	H	H	R^{B1}
L_{4886}	R^{B1}	R^{B1}	R^{B1}	H	H	R^{B1}
L_{4887}	R^{B1}	H	R^{B1}	H	H	R^{B1}
L_{4888}	H	H	R^{B1}	H	H	R^{B1}
L_{4889}	H	H	H	R^{B1}	R^{B1}	R^{B1}
L_{4890}	R^{B1}	H	H	R^{B1}	R^{B1}	R^{B1}
L_{4891}	R^{B1}	R^{B1}	H	R^{B1}	R^{B1}	R^{B1}
L_{4892}	R^{B1}	R^{B1}	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{4893}	R^{B1}	H	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{4894}	H	H	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{4895}	H	H	H	R^{B44}	R^{B44}	R^{B1}
L_{4896}	R^{B1}	H	H	R^{B44}	R^{B44}	R^{B1}
L_{4897}	R^{B1}	R^{B1}	H	R^{B44}	R^{B44}	R^{B1}
L_{4898}	R^{B1}	R^{B1}	R^{B1}	R^{B44}	R^{B44}	R^{B1}
L_{4899}	R^{B1}	H	R^{B1}	R^{B44}	R^{B44}	R^{B1}
L_{4900}	H	H	R^{B1}	R^{B44}	R^{B44}	R^{B1}
L_{4901}	H	H	R^{434}	H	H	R^{B1}
L_{4902}	R^{B1}	H	R^{434}	H	H	R^{B1}
L_{4903}	H	R^{B1}	R^{434}	H	H	R^{B1}
L_{4904}	R^{B1}	R^{B1}	R^{434}	H	H	R^{B1}
L_{4905}	H	H	R^{434}	R^{B1}	R^{B1}	R^{B1}
L_{4906}	R^{B1}	H	R^{434}	R^{B1}	R^{B1}	R^{B1}
L_{4907}	H	R^{B1}	R^{434}	R^{B1}	R^{B1}	R^{B1}
L_{4908}	R^{B1}	R^{B1}	R^{434}	R^{B1}	R^{B1}	R^{B1}
L_{4909}	H	H	R^{434}	R^{B44}	R^{B44}	R^{B1}
L_{4910}	R^{B1}	H	R^{434}	R^{B44}	R^{B44}	R^{B1}
L_{4911}	H	R^{B1}	R^{434}	R^{B44}	R^{B44}	R^{B1}
L_{4912}	R^{B1}	R^{B1}	R^{434}	R^{B44}	R^{B44}	R^{B1}
L_{4913}	H	H	R^{B18}	H	H	R^{B1}
L_{4914}	R^{B1}	H	R^{B18}	H	H	R^{B1}
L_{4915}	H	R^{B1}	R^{B18}	H	H	R^{B1}
L_{4916}	R^{B1}	R^{B1}	R^{B18}	H	H	R^{B1}
L_{4917}	H	H	R^{B18}	R^{B1}	R^{B1}	R^{B1}
L_{4918}	R^{B1}	H	R^{B18}	R^{B1}	R^{B1}	R^{B1}
L_{4919}	H	R^{B1}	R^{B18}	R^{B1}	R^{B1}	R^{B1}
L_{4920}	R^{B1}	R^{B1}	R^{B18}	R^{B1}	R^{B1}	R^{B1}
L_{4921}	H	H	R^{B18}	R^{B44}	R^{B44}	R^{B1}
L_{4922}	R^{B1}	H	R^{B18}	R^{B44}	R^{B44}	R^{B1}
L_{4923}	H	R^{B1}	R^{B18}	R^{B44}	R^{B44}	R^{B1}
L_{4924}	R^{B1}	R^{B1}	R^{B18}	R^{B44}	R^{B44}	R^{B1}
L_{4925}	H	H	R^{B3}	H	H	R^{B1}
L_{4926}	R^{B1}	H	R^{B3}	H	H	R^{B1}
L_{4927}	H	R^{B1}	R^{B3}	H	H	R^{B1}
L_{4928}	R^{B1}	R^{B1}	R^{B3}	H	H	R^{B1}
L_{4929}	H	H	R^{B3}	R^{B1}	R^{B1}	R^{B1}
L_{4930}	R^{B1}	H	R^{B3}	R^{B1}	R^{B1}	R^{B1}
L_{4931}	H	R^{B1}	R^{B3}	R^{B1}	R^{B1}	R^{B1}
L_{4932}	R^{B1}	R^{B1}	R^{B3}	R^{B1}	R^{B1}	R^{B1}
L_{4933}	H	H	R^{B3}	R^{B44}	R^{B44}	R^{B1}

-continued

Ligand	R^1	R^2	R^7	R^6	R^5	R^3
L_{4934}	R^{B1}	H	R^{B3}	R^{B44}	R^{B44}	R^{B1}
L_{4935}	H	R^{B1}	R^{B3}	R^{B44}	R^{B44}	R^{B1}
L_{4936}	R^{B1}	R^{B1}	R^{B3}	R^{B44}	R^{B44}	R^{B1}
L_{4937}	H	H	R^{B4}	H	H	R^{B1}
L_{4938}	R^{B1}	H	R^{B4}	H	H	R^{B1}
L_{4939}	H	R^{B1}	R^{B4}	H	H	R^{B1}
L_{4940}	R^{B1}	R^{B1}	R^{B4}	H	H	R^{B1}
L_{4941}	H	H	R^{B4}	R^{B1}	R^{B1}	R^{B1}
L_{4942}	R^{B1}	H	R^{B4}	R^{B1}	R^{B1}	R^{B1}
L_{4943}	H	R^{B1}	R^{B4}	R^{B1}	R^{B1}	R^{B1}
L_{4944}	R^{B1}	R^{B1}	R^{B4}	R^{B1}	R^{B1}	R^{B1}
L_{4945}	H	H	R^{B4}	R^{B44}	R^{B44}	R^{B1}
L_{4946}	R^{B1}	H	R^{B4}	R^{B44}	R^{B44}	R^{B1}
L_{4947}	H	R^{B1}	R^{B4}	R^{B44}	R^{B44}	R^{B1}
L_{4948}	R^{B1}	R^{B1}	R^{B4}	R^{B44}	R^{B44}	R^{B1}
L_{4949}	H	H	R^{B7}	H	H	R^{B1}
L_{4950}	R^{B1}	H	R^{B7}	H	H	R^{B1}
L_{4951}	H	R^{B1}	R^{B7}	H	H	R^{B1}
L_{4952}	R^{B1}	R^{B1}	R^{B7}	H	H	R^{B1}
L_{4953}	H	H	R^{B7}	R^{B1}	R^{B1}	R^{B1}
L_{4954}	R^{B1}	H	R^{B7}	R^{B1}	R^{B1}	R^{B1}
L_{4955}	H	R^{B1}	R^{B7}	R^{B1}	R^{B1}	R^{B1}
L_{4956}	R^{B1}	R^{B1}	R^{B7}	R^{B1}	R^{B1}	R^{B1}
L_{4957}	H	H	R^{B7}	R^{B44}	R^{B44}	R^{B1}
L_{4958}	R^{B1}	H	R^{B7}	R^{B44}	R^{B44}	R^{B1}
L_{4959}	H	R^{B1}	R^{B7}	R^{B44}	R^{B44}	R^{B1}
L_{4960}	R^{B1}	R^{B1}	R^{B7}	R^{B44}	R^{B44}	R^{B1}
L_{4961}	R^{B3}	H	H	H	H	R^{B1}
L_{4962}	R^{B3}	R^{B1}	H	H	H	R^{B1}
L_{4963}	R^{B3}	R^{B1}	R^{B1}	H	H	R^{B1}
L_{4964}	R^{B3}	H	R^{B1}	H	H	R^{B1}
L_{4965}	R^{B3}	H	H	R^{B1}	R^{B1}	R^{B1}
L_{4966}	R^{B3}	R^{B1}	H	R^{B1}	R^{B1}	R^{B1}
L_{4967}	R^{B3}	R^{B1}	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{4968}	R^{B3}	H	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{4969}	R^{B3}	H	H	R^{B44}	R^{B44}	R^{B1}
L_{4970}	R^{B3}	R^{B1}	H	R^{B44}	R^{B44}	R^{B1}
L_{4971}	R^{B3}	R^{B1}	R^{B1}	R^{B44}	R^{B44}	R^{B1}
L_{4972}	R^{B3}	H	R^{B1}	R^{B44}	R^{B44}	R^{B1}
L_{4973}	R^{B3}	H	R^{434}	H	H	R^{B1}
L_{4974}	R^{B3}	R^{434}	H	H	H	R^{B1}
L_{4975}	R^{B3}	R^{B1}	R^{434}	H	H	R^{B1}
L_{4976}	R^{B3}	R^{434}	R^{B1}	H	H	R^{B1}
L_{4977}	R^{B3}	H	R^{434}	R^{B1}	R^{B1}	R^{B1}
L_{4978}	R^{B3}	R^{434}	H	R^{B1}	R^{B1}	R^{B1}
L_{4979}	R^{B3}	R^{B1}	R^{434}	R^{B1}	R^{B1}	R^{B1}
L_{4980}	R^{B3}	R^{434}	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{4981}	R^{B3}	H	R^{434}	R^{B44}	R^{B44}	R^{B1}
L_{4982}	R^{B3}	R^{434}	H	R^{B44}	R^{B44}	R^{B1}
L_{4983}	R^{B3}	R^{B1}	R^{434}	R^{B44}	R^{B44}	R^{B1}
L_{4984}	R^{B3}	R^{434}	R^{B1}	R^{B44}	R^{B44}	R^{B1}
L_{4985}	R^{B3}	H	R^{B18}	H	H	R^{B1}
L_{4986}	R^{B3}	R^{B18}	H	H	H	R^{B1}
L_{4987}	R^{B3}	R^{B1}	R^{B18}	H	H	R^{B1}
L_{4988}	R^{B3}	R^{B18}	R^{B1}	H	H	R^{B1}
L_{4989}	R^{B3}	H	R^{B18}	R^{B1}	R^{B1}	R^{B1}
L_{4990}	R^{B3}	R^{B18}	H	R^{B1}	R^{B1}	R^{B1}
L_{4991}	R^{B3}	R^{B1}	R^{B18}	R^{B1}	R^{B1}	R^{B1}
L_{4992}	R^{B3}	R^{B18}	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{4993}	R^{B3}	H	R^{B18}	R^{B44}	R^{B44}	R^{B1}
L_{4994}	R^{B3}	R^{B18}	H	R^{B44}	R^{B44}	R^{B1}
L_{4995}	R^{B3}	R^{B1}	R^{B18}	R^{B44}	R^{B44}	R^{B1}
L_{4996}	R^{B3}	R^{B18}	R^{B1}	R^{B44}	R^{B44}	R^{B1}
L_{4997}	R^{B3}	H	R^{B3}	H	H	R^{B1}
L_{4998}	R^{B3}	R^{B3}	H	H	H	R^{B1}
L_{4999}	R^{B3}	R^{B1}	R^{B3}	H	H	R^{B1}
L_{41000}	R^{B3}	R^{B3}	R^{B1}	H	H	R^{B1}
L_{41001}	R^{B3}	H	R^{B3}	R^{B1}	R^{B1}	R^{B1}
L_{41002}	R^{B3}	R^{B3}	H	R^{B1}	R^{B1}	R^{B1}
L_{41003}	R^{B3}	R^{B1}	R^{B3}	R^{B1}	R^{B1}	R^{B1}
L_{41004}	R^{B3}	R^{B3}	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{41005}	R^{B3}	H	R^{B3}	R^{B44}	R^{B44}	R^{B1}
L_{41006}	R^{B3}	R^{B3}	H	R^{B44}	R^{B44}	R^{B1}
L_{41007}	R^{B3}	R^{B1}	R^{B3}	R^{B44}	R^{B44}	R^{B1}

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₀₀₈	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₀₉	R ^{B3}	H	R ^{B4}	H	H	R ^{B1}
L ₄₁₀₁₀	R ^{B3}	R ^{B4}	H	H	H	R ^{B1}
L ₄₁₀₁₁	R ^{B3}	R ^{B1}	R ^{B4}	H	H	R ^{B1}
L ₄₁₀₁₂	R ^{B3}	R ^{B4}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₁₃	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₁₄	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₁₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₁₆	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₁₇	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₁₈	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₁₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₂₀	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₂₁	R ^{B3}	H	R ^{B7}	H	H	R ^{B1}
L ₄₁₀₂₂	R ^{B3}	R ^{B7}	H	H	H	R ^{B1}
L ₄₁₀₂₃	R ^{B3}	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₄₁₀₂₄	R ^{B3}	R ^{B7}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₂₅	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₂₆	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₂₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₂₈	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₂₉	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₃₀	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₃₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₃₂	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₃₃	R ^{B2}	H	H	H	H	R ^{B1}
L ₄₁₀₃₄	R ^{B2}	R ^{B1}	H	H	H	R ^{B1}
L ₄₁₀₃₅	R ^{B2}	R ^{B1}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₃₆	R ^{B2}	H	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₃₇	R ^{B2}	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₃₈	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₃₉	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₄₀	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₄₁	R ^{B2}	H	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₄₂	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₄₃	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₄₄	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₄₅	R ^{B2}	H	R ^{B44}	H	H	R ^{B1}
L ₄₁₀₄₆	R ^{B2}	R ^{B44}	H	H	H	R ^{B1}
L ₄₁₀₄₇	R ^{B2}	R ^{B1}	R ^{B44}	H	H	R ^{B1}
L ₄₁₀₄₈	R ^{B2}	R ^{B44}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₄₉	R ^{B2}	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₅₀	R ^{B2}	R ^{B44}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₅₁	R ^{B2}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₅₂	R ^{B2}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₅₃	R ^{B2}	H	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₅₄	R ^{B2}	R ^{B44}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₅₅	R ^{B2}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₅₆	R ^{B2}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₅₇	R ^{B2}	H	R ^{B18}	H	H	R ^{B1}
L ₄₁₀₅₈	R ^{B2}	R ^{B18}	H	H	H	R ^{B1}
L ₄₁₀₅₉	R ^{B2}	R ^{B1}	R ^{B18}	H	H	R ^{B1}
L ₄₁₀₆₀	R ^{B2}	R ^{B18}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₆₁	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₆₂	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₆₃	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₆₄	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₆₅	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₆₆	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₆₇	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₆₈	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₆₉	R ^{B2}	H	R ^{B3}	H	H	R ^{B1}
L ₄₁₀₇₀	R ^{B2}	R ^{B3}	H	H	H	R ^{B1}
L ₄₁₀₇₁	R ^{B2}	R ^{B1}	R ^{B3}	H	H	R ^{B1}
L ₄₁₀₇₂	R ^{B2}	R ^{B3}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₇₃	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₇₄	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₇₅	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₇₆	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₇₇	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₇₈	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₇₉	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₈₀	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₈₁	R ^{B2}	H	R ^{B4}	H	H	R ^{B1}

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₀₈₂	R ^{B2}	R ^{B4}	H	H	H	R ^{B1}
L ₄₁₀₈₃	R ^{B2}	R ^{B1}	R ^{B4}	H	H	R ^{B1}
L ₄₁₀₈₄	R ^{B2}	R ^{B4}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₈₅	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₆	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₇	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₈	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₉	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₀	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₁	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₂	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₃	R ^{B2}	H	R ^{B7}	H	H	R ^{B1}
L ₄₁₀₉₄	R ^{B2}	R ^{B7}	H	H	H	R ^{B1}
L ₄₁₀₉₅	R ^{B2}	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₄₁₀₉₆	R ^{B2}	R ^{B7}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₉₇	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₉₈	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₉₉	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₀₀	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₀₁	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₂	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₃	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₄	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₅	R ^{B4}	H	H	H	H	R ^{B1}
L ₄₁₁₀₆	R ^{B4}	R ^{B1}	H	H	H	R ^{B1}
L ₄₁₁₀₇	R ^{B4}	R ^{B1}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₀₈	R ^{B4}	H	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₀₉	R ^{B4}	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₀	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₁	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₂	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₃	R ^{B4}	H	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₄	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₅	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₆	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₇	R ^{B4}	H	R ^{B44}	H	H	R ^{B1}
L ₄₁₁₁₈	R ^{B4}	R ^{B44}	H	H	H	R ^{B1}
L ₄₁₁₁₉	R ^{B4}	R ^{B1}	R ^{B44}	H	H	R ^{B1}
L ₄₁₁₂₀	R ^{B4}	R ^{B44}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₂₁	R ^{B4}	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₂	R ^{B4}	R ^{B44}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₃	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₄	R ^{B4}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₅	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₆	R ^{B4}	R ^{B44}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₇	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₈	R ^{B4}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₉	R ^{B4}	H	R ^{B18}	H	H	R ^{B1}
L ₄₁₁₃₀	R ^{B4}	R ^{B18}	H	H	H	R ^{B1}
L ₄₁₁₃₁	R ^{B4}	R ^{B1}	R ^{B18}	H	H	R ^{B1}
L ₄₁₁₃₂	R ^{B4}	R ^{B18}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₃₃	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₄	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₅	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₆	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₇	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₃₈	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₃₉	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₄₀	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₄₁	R ^{B4}	H	R ^{B3}	H	H	R ^{B1}
L ₄₁₁₄₂	R ^{B4}	R ^{B3}	H	H	H	R ^{B1}
L ₄₁₁₄₃	R ^{B4}	R ^{B1}	R ^{B3}	H	H	R ^{B1}
L ₄₁₁₄₄	R ^{B4}	R ^{B3}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₄₅	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₆	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₇	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₈	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₉	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₀	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₁	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₂	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₃	R ^{B4}	H	R ^{B4}	H	H	R ^{B1}
L ₄₁₁₅₄	R ^{B4}	R ^{B4}	H	H	H	R ^{B1}
L ₄₁₁₅₅	R ^{B4}	R ^{B1}	R ^{B4}	H	H	R ^{B1}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₁₅₆	R ^{B4}	R ^{B4}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₅₇	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₅₈	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₅₉	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₆₀	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₆₁	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₂	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₃	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₄	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₅	R ^{B4}	H	R ^{B7}	H	H	R ^{B1}
L ₄₁₁₆₆	R ^{B4}	R ^{B7}	H	H	H	R ^{B1}
L ₄₁₁₆₇	R ^{B4}	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₄₁₁₆₈	R ^{B4}	R ^{B7}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₆₉	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₀	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₁	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₂	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₃	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₄	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₅	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₆	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₇	H	H	H	H	H	R ^{B3}
L ₄₁₁₇₈	R ^{B1}	H	H	H	H	R ^{B3}
L ₄₁₁₇₉	R ^{B1}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₁₈₀	R ^{B1}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₁₈₁	R ^{B1}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₁₈₂	H	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₁₈₃	H	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₄	R ^{B1}	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₅	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₇	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₈	H	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₉	H	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₀	R ^{B1}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₁	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₃	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₄	H	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₅	H	H	R ⁴³⁴	H	H	R ^{B3}
L ₄₁₁₉₆	R ^{B1}	H	R ⁴³⁴	H	H	R ^{B3}
L ₄₁₁₉₇	H	R ^{B1}	R ⁴³⁴	H	H	R ^{B3}
L ₄₁₁₉₈	R ^{B1}	R ^{B1}	R ⁴³⁴	H	H	R ^{B3}
L ₄₁₁₉₉	H	H	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₀	R ^{B1}	H	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₁	H	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₂	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₃	H	H	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₄	R ^{B1}	H	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₅	H	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₆	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₇	H	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₀₈	R ^{B1}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₀₉	H	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₁₀	R ^{B1}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₁₁	H	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₂	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₃	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₅	H	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₆	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₇	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₉	H	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₀	R ^{B1}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₁	H	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₂	R ^{B1}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₃	H	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₄	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₅	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₆	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₇	H	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₂₈	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₂₉	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₂₃₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₃₁	H	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₂	R ^{B1}	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₃	H	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₄	R ^{B1}	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₅	H	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₆	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₇	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₈	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₉	H	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₀	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₁	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₃	H	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₄	R ^{B1}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₅	H	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₆	R ^{B1}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₇	H	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₄₈	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₄₉	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₅₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₅₁	H	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₂	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₃	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₄	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₅	R ^{B3}	H	H	H	H	R ^{B3}
L ₄₁₂₅₆	R ^{B3}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₂₅₇	R ^{B3}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₅₈	R ^{B3}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₅₉	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₀	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₁	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₂	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₃	R ^{B3}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₄	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₅	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₆	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₇	R ^{B3}	H	R ⁴³⁴	H	H	R ^{B3}
L ₄₁₂₆₈	R ^{B3}	R ⁴³⁴	H	H	H	R ^{B3}
L ₄₁₂₆₉	R ^{B3}	R ^{B1}	R ⁴³⁴	H	H	R ^{B3}
L ₄₁₂₇₀	R ^{B3}	R ⁴³⁴	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₇₁	R ^{B3}	H	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₂	R ^{B3}	R ⁴³⁴	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₃	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₄	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₅	R ^{B3}	H	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₆	R ^{B3}	R ⁴³⁴	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₇	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₈	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₉	R ^{B3}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₈₀	R ^{B3}	R ^{B18}	H	H	H	R ^{B3}
L ₄₁₂₈₁	R ^{B3}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₈₂	R ^{B3}	R ^{B18}	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₈₃	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₄	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₅	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₆	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₇	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₈₈	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₈₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₉₀	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₉₁	R ^{B3}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₉₂	R ^{B3}	R ^{B3}	H	H	H	R ^{B3}
L ₄₁₂₉₃	R ^{B3}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₉₄	R ^{B3}	R ^{B3}	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₉₅	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₆	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₇	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₈	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₉	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₀	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₂	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₃	R ^{B3}	H	R ^{B4}	H	H	R ^{B3}

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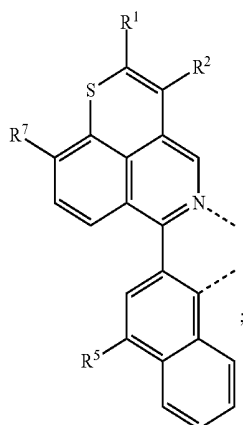
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₃₀₄	R ^{B3}	R ^{B4}	H	H	H	R ^{B3}
L ₄₁₃₀₅	R ^{B3}	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₃₀₆	R ^{B3}	R ^{B4}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₀₇	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₀₈	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₀₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₁₀	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₁₁	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₂	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₄	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₅	R ^{B3}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₁₆	R ^{B3}	R ^{B7}	H	H	H	R ^{B3}
L ₄₁₃₁₇	R ^{B3}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₁₈	R ^{B3}	R ^{B7}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₁₉	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₀	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₂	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₃	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₄	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₆	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₇	R ^{B2}	H	H	H	H	R ^{B3}
L ₄₁₃₂₈	R ^{B2}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₃₂₉	R ^{B2}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₃₀	R ^{B2}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₃₁	R ^{B2}	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₂	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₃	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₄	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₅	R ^{B2}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₆	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₇	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₈	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₉	R ^{B2}	H	R ^{B44}	H	H	R ^{B3}
L ₄₁₃₄₀	R ^{B2}	R ^{B44}	H	H	H	R ^{B3}
L ₄₁₃₄₁	R ^{B2}	R ^{B1}	R ^{B44}	H	H	R ^{B3}
L ₄₁₃₄₂	R ^{B2}	R ^{B44}	H	H	H	R ^{B3}
L ₄₁₃₄₃	R ^{B2}	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₄	R ^{B2}	R ^{B44}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₅	R ^{B2}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₆	R ^{B2}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₇	R ^{B2}	H	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₄₈	R ^{B2}	R ^{B44}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₄₉	R ^{B2}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₅₀	R ^{B2}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₅₁	R ^{B2}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₃₅₂	R ^{B2}	R ^{B18}	H	H	H	R ^{B3}
L ₄₁₃₅₃	R ^{B2}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₃₅₄	R ^{B2}	R ^{B18}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₅₅	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₆	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₇	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₈	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₉	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₀	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₁	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₂	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₃	R ^{B2}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₃₆₄	R ^{B2}	R ^{B3}	H	H	H	R ^{B3}
L ₄₁₃₆₅	R ^{B2}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₃₆₆	R ^{B2}	R ^{B3}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₆₇	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₆₈	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₆₉	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₇₀	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₇₁	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₂	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₃	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₄	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₅	R ^{B2}	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₃₇₆	R ^{B2}	R ^{B4}	H	H	H	R ^{B3}
L ₄₁₃₇₇	R ^{B2}	R ^{B1}	R ^{B4}	H	H	R ^{B3}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₃₇₈	R ^{B2}	R ^{B4}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₇₉	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₀	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₁	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₂	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₃	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₄	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₅	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₆	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₇	R ^{B2}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₈₈	R ^{B2}	R ^{B7}	H	H	H	R ^{B3}
L ₄₁₃₈₉	R ^{B2}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₉₀	R ^{B2}	R ^{B7}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₉₁	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₂	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₃	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₄	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₅	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₆	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₇	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₈	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₉	R ^{B4}	H	H	H	H	R ^{B3}
L ₄₁₄₀₀	R ^{B4}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₄₀₁	R ^{B4}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₀₂	R ^{B4}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₀₃	R ^{B4}	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₄	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₅	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₆	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₇	R ^{B4}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₀₈	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₀₉	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₁₀	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₁₁	R ^{B4}	H	R ^{B44}	H	H	R ^{B3}
L ₄₁₄₁₂	R ^{B4}	R ^{B44}	H	H	H	R ^{B3}
L ₄₁₄₁₃	R ^{B4}	R ^{B1}	R ^{B44}	H	H	R ^{B3}
L ₄₁₄₁₄	R ^{B4}	R ^{B44}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₁₅	R ^{B4}	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₆	R ^{B4}	R ^{B44}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₇	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₈	R ^{B4}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₉	R ^{B4}	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₂₀	R ^{B4}	R ^{B44}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₂₁	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₂₂	R ^{B4}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₂₃	R ^{B4}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₄₂₄	R ^{B4}	R ^{B18}	H	H	H	R ^{B3}
L ₄₁₄₂₅	R ^{B4}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₄₂₆	R ^{B4}	R ^{B18}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₂₇	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₂₈	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₂₉	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₃₀	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₃₁	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₂	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₃	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₄	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₅	R ^{B4}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₄₃₆	R ^{B4}	R ^{B3}	H	H	H	R ^{B3}
L ₄₁₄₃₇	R ^{B4}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₄₃₈	R ^{B4}	R ^{B3}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₃₉	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₀	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₁	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₂	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₃	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₄	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₅	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₆	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₇	R ^{B4}	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₄₄₈	R ^{B4}	R ^{B4}	H	H	H	R ^{B3}
L ₄₁₄₄₉	R ^{B4}	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₄₅₀	R ^{B4}	R ^{B4}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₅₁	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₄₅₂	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₅₃	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₅₄	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₅₅	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₆	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₇	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₈	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₉	R ^{B4}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₄₆₀	R ^{B4}	R ^{B7}	H	H	H	R ^{B3}
L ₄₁₄₆₁	R ^{B4}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₄₆₂	R ^{B4}	R ^{B7}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₆₃	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₄	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₅	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₆	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₇	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₆₈	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₆₉	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₇₀	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}

L₄₁₄₇₁ through L₄₁₆₉₀ having structures of Formula Vwherein R¹, R², R⁵, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₄₇₁	H	H	H	R ^{B6}
L ₄₁₄₇₂	R ^{B1}	H	H	R ^{B6}
L ₄₁₄₇₃	R ^{B1}	R ^{B1}	H	R ^{B6}
L ₄₁₄₇₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₁₄₇₅	R ^{B1}	H	R ^{B1}	R ^{B6}
L ₄₁₄₇₆	H	H	R ^{B1}	R ^{B6}
L ₄₁₄₇₇	H	R ^{B1}	H	R ^{B6}
L ₄₁₄₇₈	H	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₁₄₇₉	H	H	R ⁴³⁴	R ^{B6}
L ₄₁₄₈₀	R ^{B1}	H	R ⁴³⁴	R ^{B6}
L ₄₁₄₈₁	H	R ^{B1}	R ⁴³⁴	R ^{B6}
L ₄₁₄₈₂	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B6}
L ₄₁₄₈₃	H	H	R ^{B18}	R ^{B6}
L ₄₁₄₈₄	R ^{B1}	H	R ^{B18}	R ^{B6}
L ₄₁₄₈₅	H	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₁₄₈₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₁₄₈₇	H	H	R ^{B3}	R ^{B6}
L ₄₁₄₈₈	R ^{B1}	H	R ^{B3}	R ^{B6}
L ₄₁₄₈₉	H	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₁₄₉₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₁₄₉₁	H	H	R ^{B4}	R ^{B6}
L ₄₁₄₉₂	R ^{B1}	H	R ^{B4}	R ^{B6}
L ₄₁₄₉₃	H	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₁₄₉₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B6}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₄₉₅	H	H	R ^{B7}	R ^{B6}
L ₄₁₄₉₆	R ^{B1}	H	R ^{B7}	R ^{B6}
L ₄₁₄₉₇	H	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₁₄₉₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₁₄₉₉	R ^{B3}	H	H	R ^{B6}
L ₄₁₅₀₀	R ^{B3}	H	R ^{B1}	R ^{B6}
L ₄₁₅₀₁	R ^{B3}	R ^{B1}	H	R ^{B6}
L ₄₁₅₀₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₁₅₀₃	R ^{B3}	H	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₄	H	R ^{B3}	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₅	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₆	R ^{B1}	R ^{B3}	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₇	R ^{B3}	H	R ^{B18}	R ^{B6}
L ₄₁₅₀₈	H	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₁₅₀₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₁₅₁₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₁₅₁₁	R ^{B3}	H	R ^{B3}	R ^{B6}
L ₄₁₅₁₂	H	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₁₅₁₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₁₅₁₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₁₅₁₅	R ^{B3}	H	R ^{B4}	R ^{B6}
L ₄₁₅₁₆	H	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₁₅₁₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₁₅₁₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₁₅₁₉	R ^{B3}	H	R ^{B7}	R ^{B6}
L ₄₁₅₂₀	H	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₁₅₂₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₁₅₂₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₁₅₂₃	H	H	H	R ^{B12}
L ₄₁₅₂₄	R ^{B1}	H	H	R ^{B12}
L ₄₁₅₂₅	R ^{B1}	R ^{B1}	H	R ^{B12}
L ₄₁₅₂₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₁₅₂₇	R ^{B1}	H	R ^{B1}	R ^{B12}
L ₄₁₅₂₈	H	H	R ^{B1}	R ^{B12}
L ₄₁₅₂₉	H	R ^{B1}	H	R ^{B12}
L ₄₁₅₃₀	H	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₁₅₃₁	H	H	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₂	R ^{B1}	H	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₃	H	R ^{B1}	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₄	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₅	H	H	R ^{B18}	R ^{B12}
L ₄₁₅₃₆	R ^{B1}	H	R ^{B18}	R ^{B12}
L ₄₁₅₃₇	H	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₁₅₃₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₁₅₃₉	H	H	R ^{B3}	R ^{B12}
L ₄₁₅₄₀	R ^{B1}	H	R ^{B3}	R ^{B12}
L ₄₁₅₄₁	H	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₁₅₄₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₁₅₄₃	H	H	R ^{B4}	R ^{B12}
L ₄₁₅₄₄	R ^{B1}	H	R ^{B4}	R ^{B12}
L ₄₁₅₄₅	H	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₁₅₄₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₁₅₄₇	H	H	R ^{B7}	R ^{B12}
L ₄₁₅₄₈	R ^{B1}	H	R ^{B7}	R ^{B12}
L ₄₁₅₄₉	H	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₁₅₅₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₁₅₅₁	R ^{B3}	H	H	R ^{B12}
L ₄₁₅₅₂	R ^{B3}	H	R ^{B1}	R ^{B12}
L ₄₁₅₅₃	R ^{B3}	R ^{B1}	H	R ^{B12}
L ₄₁₅₅₄	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₁₅₅₅	R ^{B3}	H	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₆	H	R ^{B3}	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₇	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₈	R ^{B1}	R ^{B3}	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₉	R ^{B3}	H	R ^{B18}	R ^{B12}
L ₄₁₅₆₀	H	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₁₅₆₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₁₅₆₂	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₁₅₆₃	R ^{B3}	H	R ^{B3}	R ^{B12}
L ₄₁₅₆₄	H	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₁₅₆₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₁₅₆₆	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₁₅₆₇	R ^{B3}	H	R ^{B4}	R ^{B12}
L ₄₁₅₆₈	H	R ^{B3}	R ^{B4}	R ^{B12}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₅₆₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₁₅₇₀	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B12}
L ₄₁₅₇₁	R ^{B3}	H	R ^{B7}	R ^{B12}
L ₄₁₅₇₂	H	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₁₅₇₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₁₅₇₄	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₁₅₇₅	H	H	H	R ^{B44}
L ₄₁₅₇₆	R ^{B1}	H	H	R ^{B44}
L ₄₁₅₇₇	R ^{B1}	R ^{B1}	H	R ^{B44}
L ₄₁₅₇₈	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₁₅₇₉	R ^{B1}	H	R ^{B1}	R ^{B44}
L ₄₁₅₈₀	H	H	R ^{B1}	R ^{B44}
L ₄₁₅₈₁	H	R ^{B1}	H	R ^{B44}
L ₄₁₅₈₂	H	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₁₅₈₃	H	H	R ^{A34}	R ^{B44}
L ₄₁₅₈₄	R ^{B1}	H	R ^{A34}	R ^{B44}
L ₄₁₅₈₅	H	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₁₅₈₆	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₁₅₈₇	H	H	R ^{B18}	R ^{B44}
L ₄₁₅₈₈	R ^{B1}	H	R ^{B18}	R ^{B44}
L ₄₁₅₈₉	H	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₁₅₉₀	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₁₅₉₁	H	H	R ^{B3}	R ^{B44}
L ₄₁₅₉₂	R ^{B1}	H	R ^{B3}	R ^{B44}
L ₄₁₅₉₃	H	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₁₅₉₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₁₅₉₅	H	H	R ^{B4}	R ^{B44}
L ₄₁₅₉₆	R ^{B1}	H	R ^{B4}	R ^{B44}
L ₄₁₅₉₇	H	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₁₅₉₈	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₁₅₉₉	H	H	R ^{B7}	R ^{B44}
L ₄₁₆₀₀	R ^{B1}	H	R ^{B7}	R ^{B44}
L ₄₁₆₀₁	H	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₁₆₀₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₁₆₀₃	R ^{B3}	H	H	R ^{B44}
L ₄₁₆₀₄	R ^{B3}	H	R ^{B1}	R ^{B44}
L ₄₁₆₀₅	R ^{B3}	R ^{B1}	H	R ^{B44}
L ₄₁₆₀₆	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₁₆₀₇	R ^{B3}	H	R ^{A34}	R ^{B44}
L ₄₁₆₀₈	H	R ^{B3}	R ^{A34}	R ^{B44}
L ₄₁₆₀₉	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₁₆₁₀	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B44}
L ₄₁₆₁₁	R ^{B3}	H	R ^{B18}	R ^{B44}
L ₄₁₆₁₂	H	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₁₆₁₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₁₆₁₄	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₁₆₁₅	R ^{B3}	H	R ^{B3}	R ^{B44}
L ₄₁₆₁₆	H	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₁₆₁₇	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₁₆₁₈	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₁₆₁₉	R ^{B3}	H	R ^{B4}	R ^{B44}
L ₄₁₆₂₀	H	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₁₆₂₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₁₆₂₂	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₁₆₂₃	R ^{B3}	H	R ^{B7}	R ^{B44}
L ₄₁₆₂₄	H	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₁₆₂₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₁₆₂₆	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₁₆₂₇	H	H	H	R ^{B45}
L ₄₁₆₂₈	R ^{B1}	H	H	R ^{B45}
L ₄₁₆₂₉	R ^{B1}	R ^{B1}	H	R ^{B45}
L ₄₁₆₃₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₁₆₃₁	R ^{B1}	H	R ^{B1}	R ^{B45}
L ₄₁₆₃₂	H	H	R ^{B1}	R ^{B45}
L ₄₁₆₃₃	H	R ^{B1}	H	R ^{B45}
L ₄₁₆₃₄	H	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₁₆₃₅	H	H	R ^{A34}	R ^{B45}
L ₄₁₆₃₆	R ^{B1}	H	R ^{A34}	R ^{B45}
L ₄₁₆₃₇	H	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₁₆₃₈	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₁₆₃₉	H	H	R ^{B18}	R ^{B45}
L ₄₁₆₄₀	R ^{B1}	H	R ^{B18}	R ^{B45}
L ₄₁₆₄₁	H	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₁₆₄₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B45}

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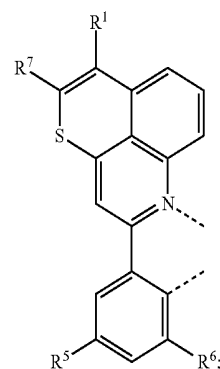
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₆₄₃	H	H	R ^{B3}	R ^{B45}
L ₄₁₆₄₄	R ^{B1}	H	R ^{B3}	R ^{B45}
L ₄₁₆₄₅	H	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₁₆₄₆	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₁₆₄₇	H	H	R ^{B4}	R ^{B45}
L ₄₁₆₄₈	R ^{B1}	H	R ^{B4}	R ^{B45}
L ₄₁₆₄₉	H	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₁₆₅₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₁₆₅₁	H	H	R ^{B7}	R ^{B45}
L ₄₁₆₅₂	R ^{B1}	H	R ^{B7}	R ^{B45}
L ₄₁₆₅₃	H	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₁₆₅₄	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₁₆₅₅	R ^{B3}	H	H	R ^{B45}
L ₄₁₆₅₆	R ^{B3}	H	R ^{B1}	R ^{B45}
L ₄₁₆₅₇	R ^{B3}	R ^{B1}	H	R ^{B45}
L ₄₁₆₅₈	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₁₆₅₉	R ^{B3}	H	R ^{A34}	R ^{B45}
L ₄₁₆₆₀	H	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₁₆₆₁	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₁₆₆₂	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₁₆₆₃	R ^{B3}	H	R ^{B18}	R ^{B45}
L ₄₁₆₆₄	H	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₁₆₆₅	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₁₆₆₆	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₁₆₆₇	R ^{B3}	H	R ^{B3}	R ^{B45}
L ₄₁₆₆₈	H	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₁₆₆₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₁₆₇₀	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₁₆₇₁	R ^{B3}	H	R ^{B4}	R ^{B45}
L ₄₁₆₇₂	H	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₁₆₇₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₁₆₇₄	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₁₆₇₅	R ^{B3}	H	R ^{B7}	R ^{B45}
L ₄₁₆₇₆	H	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₁₆₇₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₁₆₇₈	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₁₆₇₉	H	H	H	R ^{B46}
L ₄₁₆₈₀	R ^{B1}	H	H	R ^{B46}
L ₄₁₆₈₁	R ^{B1}	R ^{B1}	H	R ^{B46}
L ₄₁₆₈₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₁₆₈₃	R ^{B1}	H	R ^{B1}	R ^{B46}
L ₄₁₆₈₄	H	H	R ^{B1}	R ^{B46}
L ₄₁₆₈₅	H	R ^{B1}	H	R ^{B46}
L ₄₁₆₈₆	H	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₁₆₈₇	H	H	R ^{A34}	R ^{B46}
L ₄₁₆₈₈	R ^{B1}	H	R ^{A34}	R ^{B46}
L ₄₁₆₈₉	H	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₁₆₉₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₁₆₉₁	H	H	R ^{B18}	R ^{B46}
L ₄₁₆₉₂	R ^{B1}	H	R ^{B18}	R ^{B46}
L ₄₁₆₉₃	H	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₁₆₉₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₁₆₉₅	H	H	R ^{B3}	R ^{B46}
L ₄₁₆₉₆	R ^{B1}	H	R ^{B3}	R ^{B46}
L ₄₁₆₉₇	H	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₁₆₉₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₁₆₉₉	H	H	R ^{B4}	R ^{B46}
L ₄₁₇₀₀	R ^{B1}	H	R ^{B4}	R ^{B46}
L ₄₁₇₀₁	H	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₁₇₀₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₁₇₀₃	H	H	R ^{B7}	R ^{B46}
L ₄₁₇₀₄	R ^{B1}	H	R ^{B7}	R ^{B46}
L ₄₁₇₀₅	H	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₁₇₀₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₁₇₀₇	R ^{B3}	H	H	R ^{B46}
L ₄₁₇₀₈	R ^{B3}	H	R ^{B1}	R ^{B46}
L ₄₁₇₀₉	R ^{B3}	R ^{B1}	H	R ^{B46}
L ₄₁₇₁₀	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₁₇₁₁	R ^{B3}	H	R ^{A34}	R ^{B46}
L ₄₁₇₁₂	H	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₁₇₁₃	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₁₇₁₄	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₁₇₁₅	R ^{B3}	H	R ^{B18}	R ^{B46}
L ₄₁₇₁₆	H	R ^{B3}	R ^{B18}	R ^{B46}

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Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₇₁₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₁₇₁₈	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B46}
L ₄₁₇₁₉	R ^{B3}	H	R ^{B3}	R ^{B46}
L ₄₁₇₂₀	H	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₁₇₂₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₁₇₂₂	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₁₇₂₃	R ^{B3}	H	R ^{B4}	R ^{B46}
L ₄₁₇₂₄	H	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₁₇₂₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₁₇₂₆	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₁₇₂₇	R ^{B3}	H	R ^{B7}	R ^{B46}
L ₄₁₇₂₈	H	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₁₇₂₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₁₇₃₀	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₁₇₃₁	H	H	H	R ^{B7}
L ₄₁₇₃₂	R ^{B1}	H	H	R ^{B7}
L ₄₁₇₃₃	R ^{B1}	R ^{B1}	H	R ^{B7}
L ₄₁₇₃₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₁₇₃₅	R ^{B1}	H	R ^{B1}	R ^{B7}
L ₄₁₇₃₆	H	H	R ^{B1}	R ^{B7}
L ₄₁₇₃₇	H	R ^{B1}	H	R ^{B7}
L ₄₁₇₃₈	H	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₁₇₃₉	H	H	R ^{A34}	R ^{B7}
L ₄₁₇₄₀	R ^{B1}	H	R ^{A34}	R ^{B7}
L ₄₁₇₄₁	H	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₁₇₄₂	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₁₇₄₃	H	H	R ^{B18}	R ^{B7}
L ₄₁₇₄₄	R ^{B1}	H	R ^{B18}	R ^{B7}
L ₄₁₇₄₅	H	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₁₇₄₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₁₇₄₇	H	H	R ^{B3}	R ^{B7}
L ₄₁₇₄₈	R ^{B1}	H	R ^{B3}	R ^{B7}
L ₄₁₇₄₉	H	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₁₇₅₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₁₇₅₁	H	H	R ^{B4}	R ^{B7}
L ₄₁₇₅₂	R ^{B1}	H	R ^{B4}	R ^{B7}
L ₄₁₇₅₃	H	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₁₇₅₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₁₇₅₅	H	H	R ^{B7}	R ^{B7}
L ₄₁₇₅₆	R ^{B1}	H	R ^{B7}	R ^{B7}
L ₄₁₇₅₇	H	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₁₇₅₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₁₇₅₉	R ^{B3}	H	H	R ^{B7}
L ₄₁₇₆₀	R ^{B3}	H	R ^{B1}	R ^{B7}
L ₄₁₇₆₁	R ^{B3}	R ^{B1}	H	R ^{B7}
L ₄₁₇₆₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₁₇₆₃	R ^{B3}	H	R ^{A34}	R ^{B7}
L ₄₁₇₆₄	H	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₁₇₆₅	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₁₇₆₆	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₁₇₆₇	R ^{B3}	H	R ^{B18}	R ^{B7}
L ₄₁₇₆₈	H	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₁₇₆₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₁₇₇₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₁₇₇₁	R ^{B3}	H	R ^{B3}	R ^{B7}
L ₄₁₇₇₂	H	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₁₇₇₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₁₇₇₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₁₇₇₅	R ^{B3}	H	R ^{B4}	R ^{B7}
L ₄₁₇₇₆	H	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₁₇₇₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₁₇₇₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₁₇₇₉	R ^{B3}	H	R ^{B7}	R ^{B7}
L ₄₁₇₈₀	H	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₁₇₈₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₁₇₈₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₁₇₈₃	H	H	H	R ^{B10}
L ₄₁₇₈₄	R ^{B1}	H	H	R ^{B10}
L ₄₁₇₈₅	R ^{B1}	R ^{B1}	H	R ^{B10}
L ₄₁₇₈₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₁₇₈₇	R ^{B1}	H	R ^{B1}	R ^{B10}
L ₄₁₇₈₈	H	H	R ^{B1}	R ^{B10}
L ₄₁₇₈₉	H	R ^{B1}	H	R ^{B10}
L ₄₁₇₉₀	H	R ^{B1}	R ^{B1}	R ^{B10}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₇₉₁	H	H	R ^{A34}	R ^{B10}
L ₄₁₇₉₂	R ^{B1}	H	R ^{A34}	R ^{B10}
L ₄₁₇₉₃	H	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₁₇₉₄	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₁₇₉₅	H	H	R ^{B18}	R ^{B10}
L ₄₁₇₉₆	R ^{B1}	H	R ^{B18}	R ^{B10}
L ₄₁₇₉₇	H	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₁₇₉₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₁₇₉₉	H	H	R ^{B3}	R ^{B10}
L ₄₁₈₀₀	R ^{B1}	H	R ^{B3}	R ^{B10}
L ₄₁₈₀₁	H	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₁₈₀₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₁₈₀₃	H	H	R ^{B4}	R ^{B10}
L ₄₁₈₀₄	R ^{B1}	H	R ^{B4}	R ^{B10}
L ₄₁₈₀₅	H	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₁₈₀₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₁₈₀₇	H	H	R ^{B7}	R ^{B10}
L ₄₁₈₀₈	R ^{B1}	H	R ^{B7}	R ^{B10}
L ₄₁₈₀₉	H	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₁₈₁₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₁₈₁₁	R ^{B3}	H	H	R ^{B10}
L ₄₁₈₁₂	R ^{B3}	H	R ^{B1}	R ^{B10}
L ₄₁₈₁₃	R ^{B3}	R ^{B1}	H	R ^{B10}
L ₄₁₈₁₄	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₁₈₁₅	R ^{B3}	H	R ^{A34}	R ^{B10}
L ₄₁₈₁₆	H	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₁₈₁₇	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₁₈₁₈	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₁₈₁₉	R ^{B3}	H	R ^{B18}	R ^{B10}
L ₄₁₈₂₀	H	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₁₈₂₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₁₈₂₂	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₁₈₂₃	R ^{B3}	H	R ^{B3}	R ^{B10}
L ₄₁₈₂₄	H	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₁₈₂₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₁₈₂₆	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₁₈₂₇	R ^{B3}	H	R ^{B4}	R ^{B10}
L ₄₁₈₂₈	H	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₁₈₂₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₁₈₃₀	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₁₈₃₁	R ^{B3}	H	R ^{B7}	R ^{B10}
L ₄₁₈₃₂	H	R ^{B3}	R ^{B7}	R ^{B10}
L ₄₁₈₃₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₁₈₃₄	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B10}

L₄₁₈₃₅ through L₄₂₁₂₈ having structures of Formula VIwherein 10, R², R⁵, R⁶, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₈₃₅	H	H	H	H	H
L ₄₁₈₃₆	R ^{B1}	H	H	H	H
L ₄₁₈₃₇	R ^{B1}	R ^{B1}	H	H	H
L ₄₁₈₃₈	R ^{B1}	R ^{B1}	R ^{B1}	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₈₃₉	R ^{B1}	H	R ^{B1}	H	H
L ₄₁₈₄₀	H	H	R ^{B1}	H	H
L ₄₁₈₄₁	H	H	H	R ^{B1}	R ^{B1}
L ₄₁₈₄₂	R ^{B1}	H	H	R ^{B1}	R ^{B1}
L ₄₁₈₄₃	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₈₄₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₄₅	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₄₆	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₄₇	H	H	H	R ^{B44}	R ^{B44}
L ₄₁₈₄₈	R ^{B1}	H	H	R ^{B44}	R ^{B44}
L ₄₁₈₄₉	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₈₅₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₅₁	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₅₂	H	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₅₃	H	H	R ⁴³⁴	H	H
L ₄₁₈₅₄	R ^{B1}	H	R ⁴³⁴	H	H
L ₄₁₈₅₅	H	R ^{B1}	R ⁴³⁴	H	H
L ₄₁₈₅₆	R ^{B1}	R ^{B1}	R ⁴³⁴	H	H
L ₄₁₈₅₇	H	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₈₅₈	R ^{B1}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₈₅₉	H	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₈₆₀	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₈₆₁	H	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₈₆₂	R ^{B1}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₈₆₃	H	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₈₆₄	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₈₆₅	H	H	R ^{B18}	H	H
L ₄₁₈₆₆	R ^{B1}	H	R ^{B18}	H	H
L ₄₁₈₆₇	H	R ^{B1}	R ^{B18}	H	H
L ₄₁₈₆₈	R ^{B1}	R ^{B1}	R ^{B18}	H	H
L ₄₁₈₆₉	H	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₀	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₁	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₃	H	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₄	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₅	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₇	H	H	R ^{B3}	H	H
L ₄₁₈₇₈	R ^{B1}	H	R ^{B3}	H	H
L ₄₁₈₇₉	H	R ^{B1}	R ^{B3}	H	H
L ₄₁₈₈₀	R ^{B1}	R ^{B1}	R ^{B3}	H	H
L ₄₁₈₈₁	H	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₂	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₃	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₅	H	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₆	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₇	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₉	H	H	R ^{B4}	H	H
L ₄₁₈₉₀	R ^{B1}	H	R ^{B4}	H	H
L ₄₁₈₉₁	H	R ^{B1}	R ^{B4}	H	H
L ₄₁₈₉₂	R ^{B1}	R ^{B1}	R ^{B4}	H	H
L ₄₁₈₉₃	H	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₄	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₅	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₇	H	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₈₉₈	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₈₉₉	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₀₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₀₁	H	H	R ^{B7}	H	H
L ₄₁₉₀₂	R ^{B1}	H	R ^{B7}	H	H
L ₄₁₉₀₃	H	R ^{B1}	R ^{B7}	H	H
L ₄₁₉₀₄	R ^{B1}	R ^{B1}	R ^{B7}	H	H
L ₄₁₉₀₅	H	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₆	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₇	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₉	H	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₁₀	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₁₁	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₁₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₉₁₃	R ^{B3}	H	H	H	H
L ₄₁₉₁₄	R ^{B3}	R ^{B1}	H	H	H
L ₄₁₉₁₅	R ^{B3}	R ^{B1}	R ^{B1}	H	H
L ₄₁₉₁₆	R ^{B3}	H	R ^{B1}	H	H
L ₄₁₉₁₇	R ^{B3}	H	H	R ^{B1}	R ^{B1}
L ₄₁₉₁₈	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₉₁₉	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₂₀	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₂₁	R ^{B3}	H	H	R ^{B44}	R ^{B44}
L ₄₁₉₂₂	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₉₂₃	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₂₄	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₂₅	R ^{B3}	H	R ⁴³⁴	H	H
L ₄₁₉₂₆	R ^{B3}	R ⁴³⁴	H	H	H
L ₄₁₉₂₇	R ^{B3}	R ^{B1}	R ⁴³⁴	H	H
L ₄₁₉₂₈	R ^{B3}	R ⁴³⁴	R ^{B1}	H	H
L ₄₁₉₂₉	R ^{B3}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₉₃₀	R ^{B3}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₁₉₃₁	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₉₃₂	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₃₃	R ^{B3}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₉₃₄	R ^{B3}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₁₉₃₅	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₉₃₆	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₃₇	R ^{B3}	H	R ^{B18}	H	H
L ₄₁₉₃₈	R ^{B3}	R ^{B18}	H	H	H
L ₄₁₉₃₉	R ^{B3}	R ^{B1}	R ^{B18}	H	H
L ₄₁₉₄₀	R ^{B3}	R ^{B18}	R ^{B1}	H	H
L ₄₁₉₄₁	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₉₄₂	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₁₉₄₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₉₄₄	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₄₅	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₉₄₆	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₁₉₄₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₉₄₈	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₄₉	R ^{B3}	H	R ^{B3}	H	H
L ₄₁₉₅₀	R ^{B3}	R ^{B3}	H	H	H
L ₄₁₉₅₁	R ^{B3}	R ^{B1}	R ^{B3}	H	H
L ₄₁₉₅₂	R ^{B3}	R ^{B3}	R ^{B1}	H	H
L ₄₁₉₅₃	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₅₄	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₁₉₅₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₅₆	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₅₇	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₅₈	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₁₉₅₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₆₀	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₆₁	R ^{B3}	H	R ^{B4}	H	H
L ₄₁₉₆₂	R ^{B3}	R ^{B4}	H	H	H
L ₄₁₉₆₃	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₁₉₆₄	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₁₉₆₅	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₉₆₆	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₁₉₆₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₉₆₈	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₆₉	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₇₀	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₁₉₇₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₇₂	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₇₃	R ^{B3}	H	R ^{B7}	H	H
L ₄₁₉₇₄	R ^{B3}	R ^{B7}	H	H	H
L ₄₁₉₇₅	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₁₉₇₆	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₁₉₇₇	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₇₈	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₁₉₇₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₈₀	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₈₁	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₈₂	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₁₉₈₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₈₄	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₈₅	R ^{B2}	H	H	H	H
L ₄₁₉₈₆	R ^{B2}	R ^{B1}	H	H	H

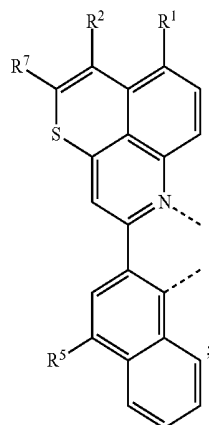
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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₉₈₇	R ^{B2}	R ^{B1}	R ^{B1}	H	H
L ₄₁₉₈₈	R ^{B2}	H	R ^{B1}	H	H
L ₄₁₉₈₉	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₁₉₉₀	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₉₉₁	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₉₂	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₉₃	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₁₉₉₄	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₉₉₅	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₉₆	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₉₇	R ^{B2}	H	R ⁴³⁴	H	H
L ₄₁₉₉₈	R ^{B2}	R ⁴³⁴	H	H	H
L ₄₁₉₉₉	R ^{B2}	R ^{B1}	R ⁴³⁴	H	H
L ₄₂₀₀₀	R ^{B2}	R ⁴³⁴	R ^{B1}	H	H
L ₄₂₀₀₁	R ^{B2}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₀₀₂	R ^{B2}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₂₀₀₃	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₀₀₄	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₀₅	R ^{B2}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₀₀₆	R ^{B2}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₂₀₀₇	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₀₀₈	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₀₉	R ^{B2}	H	R ^{B18}	H	H
L ₄₂₀₁₀	R ^{B2}	R ^{B18}	H	H	H
L ₄₂₀₁₁	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₂₀₁₂	R ^{B2}	R ^{B18}	R ^{B1}	H	H
L ₄₂₀₁₃	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₁₄	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₂₀₁₅	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₁₆	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₁₇	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₁₈	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₂₀₁₉	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₂₀	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₂₁	R ^{B2}	H	R ^{B3}	H	H
L ₄₂₀₂₂	R ^{B2}	R ^{B3}	H	H	H
L ₄₂₀₂₃	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₂₀₂₄	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₂₀₂₅	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₀₂₆	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₂₀₂₇	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₀₂₈	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₂₉	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₀₃₀	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₂₀₃₁	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₀₃₂	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₃₃	R ^{B2}	H	R ^{B4}	H	H
L ₄₂₀₃₄	R ^{B2}	R ^{B4}	H	H	H
L ₄₂₀₃₅	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₂₀₃₆	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₂₀₃₇	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₃₈	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₀₃₉	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₄₀	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₄₁	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₀₄₂	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₀₄₃	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₀₄₄	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₄₅	R ^{B2}	H	R ^{B7}	H	H
L ₄₂₀₄₆	R ^{B2}	R ^{B7}	H	H	H
L ₄₂₀₄₇	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₂₀₄₈	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₂₀₄₉	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₀₅₀	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₀₅₁	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₀₅₂	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₅₃	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₀₅₄	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₀₅₅	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₀₅₆	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₅₇	R ^{B4}	H	H	H	H
L ₄₂₀₅₈	R ^{B4}	R ^{B1}	H	H	H
L ₄₂₀₅₉	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₂₀₆₀	R ^{B4}	H	R ^{B1}	H	H

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₀₆₁	R ^{B4}	H	H	R ^{B1}	R ^{B1}
L ₄₂₀₆₂	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₂₀₆₃	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₆₄	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₆₅	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₂₀₆₆	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₂₀₆₇	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₆₈	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₆₉	R ^{B4}	H	R ⁴³⁴	H	H
L ₄₂₀₇₀	R ^{B4}	R ⁴³⁴	H	H	H
L ₄₂₀₇₁	R ^{B4}	R ^{B1}	R ⁴³⁴	H	H
L ₄₂₀₇₂	R ^{B4}	R ⁴³⁴	R ^{B1}	H	H
L ₄₂₀₇₃	R ^{B4}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₀₇₄	R ^{B4}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₂₀₇₅	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₀₇₆	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₇₇	R ^{B4}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₀₇₈	R ^{B4}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₂₀₇₉	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₀₈₀	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₈₁	R ^{B4}	H	R ^{B18}	H	H
L ₄₂₀₈₂	R ^{B4}	R ^{B18}	H	H	H
L ₄₂₀₈₃	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₂₀₈₄	R ^{B4}	R ^{B18}	R ^{B1}	H	H
L ₄₂₀₈₅	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₈₆	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₂₀₈₇	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₈₈	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₈₉	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₉₀	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₂₀₉₁	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₉₂	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₉₃	R ^{B4}	H	R ^{B3}	H	H
L ₄₂₀₉₄	R ^{B4}	R ^{B3}	H	H	H
L ₄₂₀₉₅	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₂₀₉₆	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₂₀₉₇	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₀₉₈	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₂₀₉₉	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₁₀₀	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₀₁	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₁₀₂	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₂₁₀₃	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₁₀₄	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₁₀₅	R ^{B4}	H	R ^{B4}	H	H
L ₄₂₁₀₆	R ^{B4}	R ^{B4}	H	H	H
L ₄₂₁₀₇	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₂₁₀₈	R ^{B4}	R ^{B4}	R ^{B1}	H	H
L ₄₂₁₀₉	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₁₁₀	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₁₁₁	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₁₁₂	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₁₃	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₁₁₄	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₁₁₅	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₁₁₆	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₁₁₇	R ^{B4}	H	R ^{B7}	H	H
L ₄₂₁₁₈	R ^{B4}	R ^{B7}	H	H	H
L ₄₂₁₁₉	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₂₁₂₀	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₂₁₂₁	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₂₂	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₁₂₃	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₂₄	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₂₅	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₁₂₆	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₁₂₇	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₁₂₈	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

L₄₂₁₂₉ through L₄₂₄₉₂ having structures of Formula VII



wherein R¹, R², R⁵, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₁₂₉	H	H	H	R ^{B6}
L ₄₂₁₃₀	R ^{B1}	H	H	R ^{B6}
L ₄₂₁₃₁	R ^{B1}	R ^{B1}	H	R ^{B6}
L ₄₂₁₃₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₂₁₃₃	R ^{B1}	H	R ^{B1}	R ^{B6}
L ₄₂₁₃₄	H	H	R ^{B1}	R ^{B6}
L ₄₂₁₃₅	H	R ^{B1}	H	R ^{B6}
L ₄₂₁₃₆	H	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₂₁₃₇	H	H	R ^{A34}	R ^{B6}
L ₄₂₁₃₈	R ^{B1}	H	R ^{A34}	R ^{B6}
L ₄₂₁₃₉	H	R ^{B1}	R ^{A34}	R ^{B6}
L ₄₂₁₄₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B6}
L ₄₂₁₄₁	H	H	R ^{B18}	R ^{B6}
L ₄₂₁₄₂	R ^{B1}	H	R ^{B18}	R ^{B6}
L ₄₂₁₄₃	H	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₂₁₄₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₂₁₄₅	H	H	R ^{B3}	R ^{B6}
L ₄₂₁₄₆	R ^{B1}	H	R ^{B3}	R ^{B6}
L ₄₂₁₄₇	H	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₂₁₄₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₂₁₄₉	H	H	R ^{B4}	R ^{B6}
L ₄₂₁₅₀	R ^{B1}	H	R ^{B4}	R ^{B6}
L ₄₂₁₅₁	H	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₂₁₅₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₂₁₅₃	H	H	R ^{B7}	R ^{B6}
L ₄₂₁₅₄	R ^{B1}	H	R ^{B7}	R ^{B6}
L ₄₂₁₅₅	H	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₂₁₅₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₂₁₅₇	R ^{B3}	H	H	R ^{B6}
L ₄₂₁₅₈	R ^{B3}	H	R ^{B1}	R ^{B6}
L ₄₂₁₅₉	R ^{B3}	R ^{B1}	H	R ^{B6}
L ₄₂₁₆₀	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₂₁₆₁	R ^{B3}	H	R ^{A34}	R ^{B6}
L ₄₂₁₆₂	H	R ^{B3}	R ^{A34}	R ^{B6}
L ₄₂₁₆₃	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B6}
L ₄₂₁₆₄	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B6}
L ₄₂₁₆₅	R ^{B3}	H	R ^{B18}	R ^{B6}
L ₄₂₁₆₆	H	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₂₁₆₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₂₁₆₈	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₂₁₆₉	R ^{B3}	H	R ^{B3}	R ^{B6}
L ₄₂₁₇₀	H	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₂₁₇₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₂₁₇₂	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₂₁₇₃	R ^{B3}	H	R ^{B4}	R ^{B6}
L ₄₂₁₇₄	H	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₂₁₇₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₂₁₇₆	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₂₁₇₇	R ^{B3}	H	R ^{B7}	R ^{B6}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₁₇₈	H	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₂₁₇₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₂₁₈₀	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₂₁₈₁	H	H	H	R ^{B12}
L ₄₂₁₈₂	R ^{B1}	H	H	R ^{B12}
L ₄₂₁₈₃	R ^{B1}	R ^{B1}	H	R ^{B12}
L ₄₂₁₈₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₂₁₈₅	R ^{B1}	H	R ^{B1}	R ^{B12}
L ₄₂₁₈₆	H	H	R ^{B1}	R ^{B12}
L ₄₂₁₈₇	H	R ^{B1}	H	R ^{B12}
L ₄₂₁₈₈	H	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₂₁₈₉	H	H	R ^{A34}	R ^{B12}
L ₄₂₁₉₀	R ^{B1}	H	R ^{A34}	R ^{B12}
L ₄₂₁₉₁	H	R ^{B1}	R ^{A34}	R ^{B12}
L ₄₂₁₉₂	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B12}
L ₄₂₁₉₃	H	H	R ^{B18}	R ^{B12}
L ₄₂₁₉₄	R ^{B1}	H	R ^{B18}	R ^{B12}
L ₄₂₁₉₅	H	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₂₁₉₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₂₁₉₇	H	H	R ^{B3}	R ^{B12}
L ₄₂₁₉₈	R ^{B1}	H	R ^{B3}	R ^{B12}
L ₄₂₁₉₉	H	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₂₂₀₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₂₂₀₁	H	H	R ^{B4}	R ^{B12}
L ₄₂₂₀₂	R ^{B1}	H	R ^{B4}	R ^{B12}
L ₄₂₂₀₃	H	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₂₂₀₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₂₂₀₅	H	H	R ^{B7}	R ^{B12}
L ₄₂₂₀₆	R ^{B1}	H	R ^{B7}	R ^{B12}
L ₄₂₂₀₇	H	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₂₂₀₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₂₂₀₉	R ^{B3}	H	H	R ^{B12}
L ₄₂₂₁₀	R ^{B3}	H	R ^{B1}	R ^{B12}
L ₄₂₂₁₁	R ^{B3}	R ^{B1}	H	R ^{B12}
L ₄₂₂₁₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₂₂₁₃	R ^{B3}	H	R ^{A34}	R ^{B12}
L ₄₂₂₁₄	H	R ^{B3}	R ^{A34}	R ^{B12}
L ₄₂₂₁₅	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B12}
L ₄₂₂₁₆	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B12}
L ₄₂₂₁₇	R ^{B3}	H	R ^{B18}	R ^{B12}
L ₄₂₂₁₈	H	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₂₂₁₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₂₂₂₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₂₂₂₁	R ^{B3}	H	R ^{B3}	R ^{B12}
L ₄₂₂₂₂	H	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₂₂₂₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₂₂₂₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₂₂₂₅	R ^{B3}	H	R ^{B4}	R ^{B12}
L ₄₂₂₂₆	H	R ^{B3}	R ^{B4}	R ^{B12}
L ₄₂₂₂₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₂₂₂₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B12}
L ₄₂₂₂₉	R ^{B3}	H	R ^{B7}	R ^{B12}
L ₄₂₂₃₀	H	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₂₂₃₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₂₂₃₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₂₂₃₃	H	H	H	R ^{B44}
L ₄₂₂₃₄	R ^{B1}	H	H	R ^{B44}
L ₄₂₂₃₅	R ^{B1}	R ^{B1}	H	R ^{B44}
L ₄₂₂₃₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₂₂₃₇	R ^{B1}	H	R ^{B1}	R ^{B44}
L ₄₂₂₃₈	H	H	R ^{B1}	R ^{B44}
L ₄₂₂₃₉	H	R ^{B1}	H	R ^{B44}
L ₄₂₂₄₀	H	H	R ^{B18}	R ^{B44}
L ₄₂₂₄₁	H	H	R ^{A34}	R ^{B44}
L ₄₂₂₄₂	R ^{B1}	H	R ^{A34}	R ^{B44}
L ₄₂₂₄₃	H	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₂₂₄₄	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₂₂₄₅	H	H	R ^{B18}	R ^{B44}
L ₄₂₂₄₆	R ^{B1}	H	R ^{B18}	R ^{B44}
L ₄₂₂₄₇	H	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₂₂₄₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₂₂₄₉	H	H	R ^{B3}	R ^{B44}
L ₄₂₂₅₀	R ^{B1}	H	R ^{B3}	R ^{B44}
L ₄₂₂₅₁	H	R ^{B1}	R ^{B3}	R ^{B44}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₂₅₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₂₂₅₃	H	H	R ^{B4}	R ^{B44}
L ₄₂₂₅₄	R ^{B1}	H	R ^{B4}	R ^{B44}
L ₄₂₂₅₅	H	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₂₂₅₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₂₂₅₇	H	H	R ^{B7}	R ^{B44}
L ₄₂₂₅₈	R ^{B1}	H	R ^{B7}	R ^{B44}
L ₄₂₂₅₉	H	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₂₂₆₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₂₂₆₁	R ^{B3}	H	H	R ^{B44}
L ₄₂₂₆₂	R ^{B3}	H	R ^{B1}	R ^{B44}
L ₄₂₂₆₃	R ^{B3}	R ^{B1}	H	R ^{B44}
L ₄₂₂₆₄	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₂₂₆₅	R ^{B3}	H	R ^{A34}	R ^{B44}
L ₄₂₂₆₆	H	R ^{B3}	R ^{A34}	R ^{B44}
L ₄₂₂₆₇	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₂₂₆₈	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B44}
L ₄₂₂₆₉	R ^{B3}	H	R ^{B18}	R ^{B44}
L ₄₂₂₇₀	H	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₂₂₇₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₂₂₇₂	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₂₂₇₃	R ^{B3}	H	R ^{B3}	R ^{B44}
L ₄₂₂₇₄	H	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₂₂₇₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₂₂₇₆	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₂₂₇₇	R ^{B3}	H	R ^{B4}	R ^{B44}
L ₄₂₂₇₈	H	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₂₂₇₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₂₂₈₀	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₂₂₈₁	R ^{B3}	H	R ^{B7}	R ^{B44}
L ₄₂₂₈₂	H	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₂₂₈₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₂₂₈₄	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₂₂₈₅	H	H	H	R ^{B45}
L ₄₂₂₈₆	R ^{B1}	H	H	R ^{B45}
L ₄₂₂₈₇	R ^{B1}	R ^{B1}	H	R ^{B45}
L ₄₂₂₈₈	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₂₂₈₉	R ^{B1}	H	R ^{B1}	R ^{B45}
L ₄₂₂₉₀	H	H	R ^{B1}	R ^{B45}
L ₄₂₂₉₁	H	R ^{B1}	H	R ^{B45}
L ₄₂₂₉₂	H	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₂₂₉₃	H	H	R ^{A34}	R ^{B45}
L ₄₂₂₉₄	R ^{B1}	H	R ^{A34}	R ^{B45}
L ₄₂₂₉₅	H	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₂₂₉₆	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₂₂₉₇	H	H	R ^{B18}	R ^{B45}
L ₄₂₂₉₈	R ^{B1}	H	R ^{B18}	R ^{B45}
L ₄₂₂₉₉	H	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₂₃₀₀	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₂₃₀₁	H	H	R ^{B3}	R ^{B45}
L ₄₂₃₀₂	R ^{B1}	H	R ^{B3}	R ^{B45}
L ₄₂₃₀₃	H	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₂₃₀₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₂₃₀₅	H	H	R ^{B4}	R ^{B45}
L ₄₂₃₀₆	R ^{B1}	H	R ^{B4}	R ^{B45}
L ₄₂₃₀₇	H	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₂₃₀₈	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₂₃₀₉	H	H	R ^{B7}	R ^{B45}
L ₄₂₃₁₀	R ^{B1}	H	R ^{B7}	R ^{B45}
L ₄₂₃₁₁	H	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₂₃₁₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₂₃₁₃	R ^{B3}	H	H	R ^{B45}
L ₄₂₃₁₄	R ^{B3}	H	R ^{B1}	R ^{B45}
L ₄₂₃₁₅	R ^{B3}	R ^{B1}	H	R ^{B45}
L ₄₂₃₁₆	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₂₃₁₇	R ^{B3}	H	R ^{A34}	R ^{B45}
L ₄₂₃₁₈	H	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₂₃₁₉	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₂₃₂₀	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₂₃₂₁	R ^{B3}	H	R ^{B18}	R ^{B45}
L ₄₂₃₂₂	H	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₂₃₂₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₂₃₂₄	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₂₃₂₅	R ^{B3}	H	R ^{B3}	R ^{B45}

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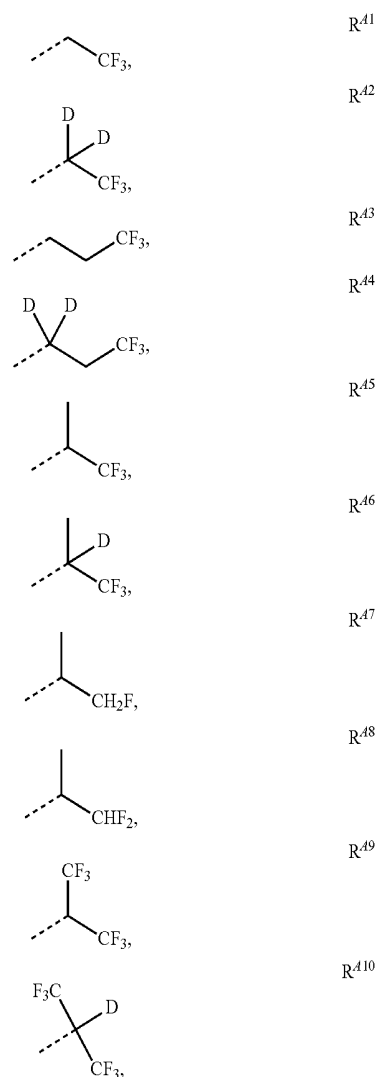
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₃₂₆	H	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₂₃₂₇	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₂₃₂₈	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₂₃₂₉	R ^{B3}	H	R ^{B4}	R ^{B45}
L ₄₂₃₃₀	H	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₂₃₃₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₂₃₃₂	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₂₃₃₃	R ^{B3}	H	R ^{B7}	R ^{B45}
L ₄₂₃₃₄	H	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₂₃₃₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₂₃₃₆	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₂₃₃₇	H	H	H	R ^{B46}
L ₄₂₃₃₈	R ^{B1}	H	H	R ^{B46}
L ₄₂₃₃₉	R ^{B1}	R ^{B1}	H	R ^{B46}
L ₄₂₃₄₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₂₃₄₁	R ^{B1}	H	R ^{B1}	R ^{B46}
L ₄₂₃₄₂	H	H	R ^{B1}	R ^{B46}
L ₄₂₃₄₃	H	R ^{B1}	H	R ^{B46}
L ₄₂₃₄₄	H	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₂₃₄₅	H	H	R ^{A34}	R ^{B46}
L ₄₂₃₄₆	R ^{B1}	H	R ^{A34}	R ^{B46}
L ₄₂₃₄₇	H	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₂₃₄₈	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₂₃₄₉	H	H	R ^{B18}	R ^{B46}
L ₄₂₃₅₀	R ^{B1}	H	R ^{B18}	R ^{B46}
L ₄₂₃₅₁	H	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₂₃₅₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₂₃₅₃	H	H	R ^{B3}	R ^{B46}
L ₄₂₃₅₄	R ^{B1}	H	R ^{B3}	R ^{B46}
L ₄₂₃₅₅	H	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₂₃₅₆	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₂₃₅₇	H	H	R ^{B4}	R ^{B46}
L ₄₂₃₅₈	R ^{B1}	H	R ^{B4}	R ^{B46}
L ₄₂₃₅₉	H	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₂₃₆₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₂₃₆₁	H	H	R ^{B7}	R ^{B46}
L ₄₂₃₆₂	R ^{B1}	H	R ^{B7}	R ^{B46}
L ₄₂₃₆₃	H	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₂₃₆₄	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₂₃₆₅	R ^{B3}	H	H	R ^{B46}
L ₄₂₃₆₆	R ^{B3}	H	R ^{B1}	R ^{B46}
L ₄₂₃₆₇	R ^{B3}	R ^{B1}	H	R ^{B46}
L ₄₂₃₆₈	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₂₃₆₉	R ^{B3}	H	R ^{A34}	R ^{B46}
L ₄₂₃₇₀	H	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₂₃₇₁	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₂₃₇₂	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₂₃₇₃	R ^{B3}	H	R ^{B18}	R ^{B46}
L ₄₂₃₇₄	H	R ^{B3}	R ^{B18}	R ^{B46}
L ₄₂₃₇₅	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₂₃₇₆	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B46}
L ₄₂₃₇₇	R ^{B3}	H	R ^{B3}	R ^{B46}
L ₄₂₃₇₈	H	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₂₃₇₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₂₃₈₀	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₂₃₈₁	R ^{B3}	H	R ^{B4}	R ^{B46}
L ₄₂₃₈₂	H	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₂₃₈₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₂₃₈₄	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₂₃₈₅	R ^{B3}	H	R ^{B7}	R ^{B46}
L ₄₂₃₈₆	H	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₂₃₈₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₂₃₈₈	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₂₃₈₉	H	H	H	R ^{B7}
L ₄₂₃₉₀	R ^{B1}	H	H	R ^{B7}
L ₄₂₃₉₁	R ^{B1}	R ^{B1}	H	R ^{B7}
L ₄₂₃₉₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₂₃₉₃	R ^{B1}	H	R ^{B1}	R ^{B7}
L ₄₂₃₉₄	H	H	R ^{B1}	R ^{B7}
L ₄₂₃₉₅	H	R ^{B1}	H	R ^{B7}
L ₄₂₃₉₆	H	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₂₃₉₇	H	H	R ^{A34}	R ^{B7}
L ₄₂₃₉₈	R ^{B1}	H	R ^{A34}	R ^{B7}
L ₄₂₃₉₉	H	R ^{B1}	R ^{A34}	R ^{B7}

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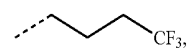
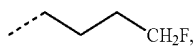
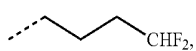
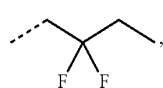
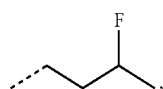
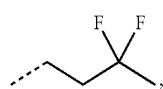
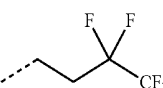
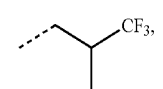
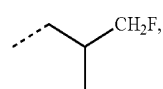
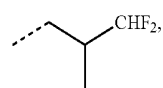
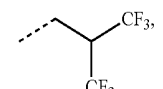
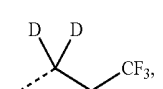
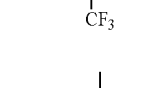
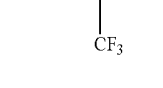
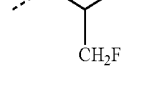
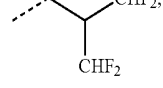
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₄₀₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₂₄₀₁	H	H	R ^{B18}	R ^{B7}
L ₄₂₄₀₂	R ^{B1}	H	R ^{B18}	R ^{B7}
L ₄₂₄₀₃	H	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₂₄₀₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₂₄₀₅	H	H	R ^{B3}	R ^{B7}
L ₄₂₄₀₆	R ^{B1}	H	R ^{B3}	R ^{B7}
L ₄₂₄₀₇	H	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₂₄₀₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₂₄₀₉	H	H	R ^{B4}	R ^{B7}
L ₄₂₄₁₀	R ^{B1}	H	R ^{B4}	R ^{B7}
L ₄₂₄₁₁	H	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₂₄₁₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₂₄₁₃	H	H	R ^{B7}	R ^{B7}
L ₄₂₄₁₄	R ^{B1}	H	R ^{B7}	R ^{B7}
L ₄₂₄₁₅	H	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₂₄₁₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₂₄₁₇	R ^{B3}	H	H	R ^{B7}
L ₄₂₄₁₈	R ^{B3}	H	R ^{B1}	R ^{B7}
L ₄₂₄₁₉	R ^{B3}	R ^{B1}	H	R ^{B7}
L ₄₂₄₂₀	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₂₄₂₁	R ^{B3}	H	R ^{A34}	R ^{B7}
L ₄₂₄₂₂	H	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₂₄₂₃	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₂₄₂₄	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₂₄₂₅	R ^{B3}	H	R ^{B18}	R ^{B7}
L ₄₂₄₂₆	H	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₂₄₂₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₂₄₂₈	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₂₄₂₉	R ^{B3}	H	R ^{B3}	R ^{B7}
L ₄₂₄₃₀	H	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₂₄₃₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₂₄₃₂	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₂₄₃₃	R ^{B3}	H	R ^{B4}	R ^{B7}
L ₄₂₄₃₄	H	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₂₄₃₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₂₄₃₆	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₂₄₃₇	R ^{B3}	H	R ^{B7}	R ^{B7}
L ₄₂₄₃₈	H	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₂₄₃₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₂₄₄₀	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₂₄₄₁	H	H	H	R ^{B10}
L ₄₂₄₄₂	R ^{B1}	H	H	R ^{B10}
L ₄₂₄₄₃	R ^{B1}	R ^{B1}	H	R ^{B10}
L ₄₂₄₄₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₂₄₄₅	R ^{B1}	H	R ^{B1}	R ^{B10}
L ₄₂₄₄₆	H	H	R ^{B1}	R ^{B10}
L ₄₂₄₄₇	H	R ^{B1}	H	R ^{B10}
L ₄₂₄₄₈	H	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₂₄₄₉	H	H	R ^{A34}	R ^{B10}
L ₄₂₄₅₀	R ^{B1}	H	R ^{A34}	R ^{B10}
L ₄₂₄₅₁	H	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₂₄₅₂	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₂₄₅₃	H	H	R ^{B18}	R ^{B10}
L ₄₂₄₅₄	R ^{B1}	H	R ^{B18}	R ^{B10}
L ₄₂₄₅₅	H	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₂₄₅₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₂₄₅₇	H	H	R ^{B3}	R ^{B10}
L ₄₂₄₅₈	R ^{B1}	H	R ^{B3}	R ^{B10}
L ₄₂₄₅₉	H	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₂₄₆₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₂₄₆₁	H	H	R ^{B4}	R ^{B10}
L ₄₂₄₆₂	R ^{B1}	H	R ^{B4}	R ^{B10}
L ₄₂₄₆₃	H	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₂₄₆₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₂₄₆₅	H	H	R ^{B7}	R ^{B10}
L ₄₂₄₆₆	R ^{B1}	H	R ^{B7}	R ^{B10}
L ₄₂₄₆₇	H	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₂₄₆₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₂₄₆₉	R ^{B3}	H	H	R ^{B10}
L ₄₂₄₇₀	R ^{B3}	H	R ^{B1}	R ^{B10}
L ₄₂₄₇₁	R ^{B3}	R ^{B1}	H	R ^{B10}
L ₄₂₄₇₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₂₄₇₃	R ^{B3}	H	R ^{A34}	R ^{B10}

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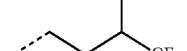
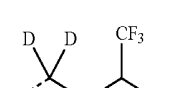
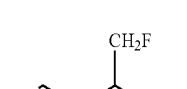
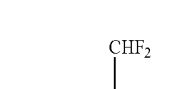
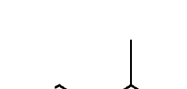
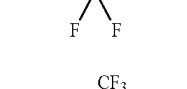
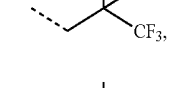
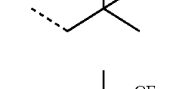
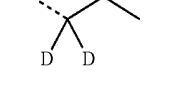
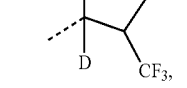
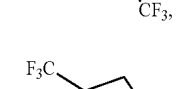
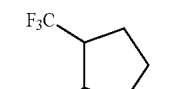
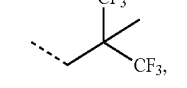
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₄₇₄	H	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₂₄₇₅	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₂₄₇₆	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₂₄₇₇	R ^{B3}	H	R ^{B18}	R ^{B10}
L ₄₂₄₇₈	H	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₂₄₇₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₂₄₈₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₂₄₈₁	R ^{B3}	H	R ^{B3}	R ^{B10}
L ₄₂₄₈₂	H	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₂₄₈₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₂₄₈₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₂₄₈₅	R ^{B3}	H	R ^{B4}	R ^{B10}
L ₄₂₄₈₆	H	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₂₄₈₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₂₄₈₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₂₄₈₉	R ^{B3}	H	R ^{B7}	R ^{B10}
L ₄₂₄₉₀	H	R ^{B3}	R ^{B7}	R ^{B10}
L ₄₂₄₉₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₂₄₉₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B10} ,

wherein R^{A1} to R^{A51} have the following structures:

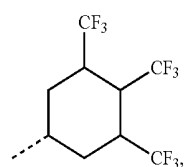
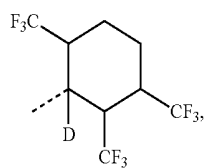
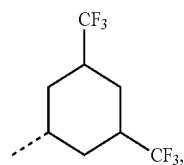
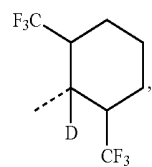
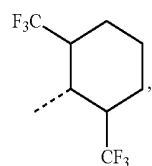
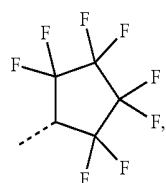
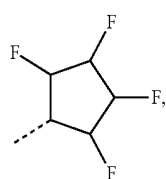
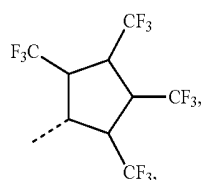
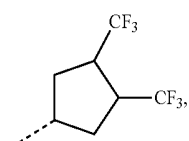
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R⁴¹¹R⁴¹²R⁴¹³R⁴¹⁴R⁴¹⁵R⁴¹⁶R⁴¹⁷R⁴¹⁸R⁴¹⁹R⁴²⁰R⁴²¹R⁴²²R⁴²³R⁴²⁴R⁴²⁵

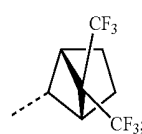
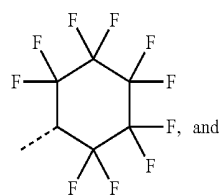
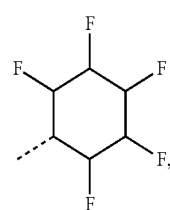
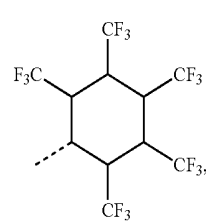
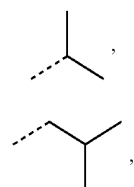
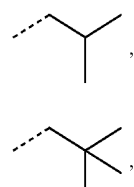
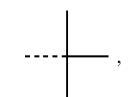
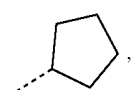
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R⁴²⁶R⁴²⁷R⁴²⁸R⁴²⁹R⁴³⁰R⁴³¹R⁴³²R⁴³³R⁴³⁴R⁴³⁵R⁴³⁶R⁴³⁷

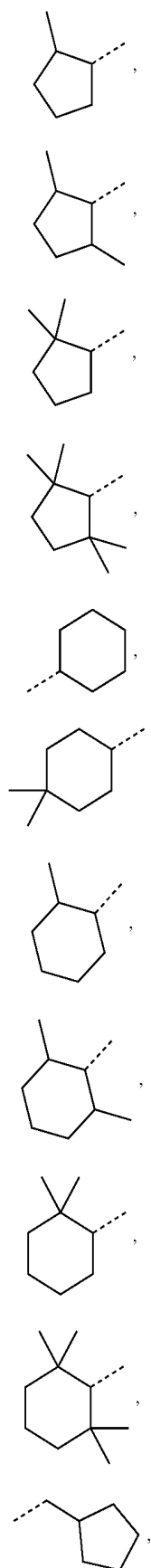
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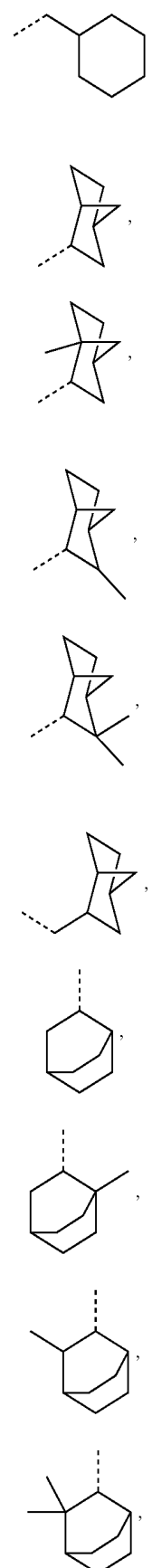
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and wherein R^{B1} to R^{B46} have the following structures: R^{444}  R^{B1} R^{445}  R^{B2} R^{446}  R^{B3} R^{447}  R^{B4}  R^{B5}  R^{B6} R^{B7}

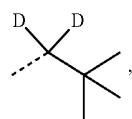
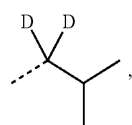
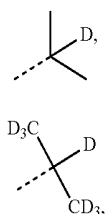
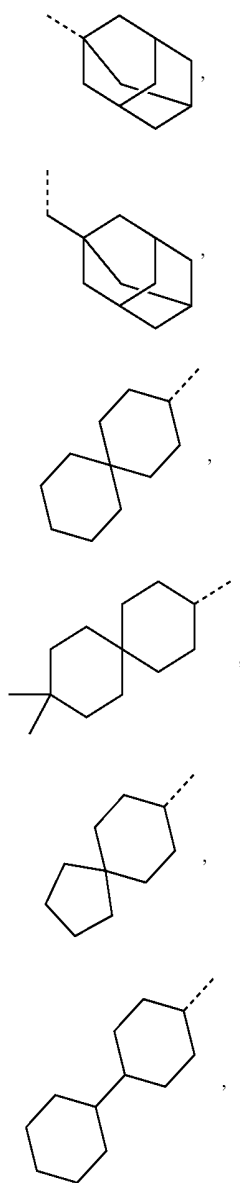
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 R^{B8} R^{B9} R^{B10} R^{B11} R^{B12} R^{B13} R^{B14} R^{B15} R^{B16} R^{B17} R^{B18}

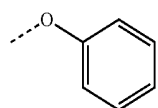
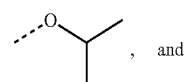
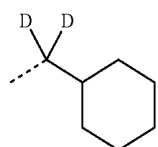
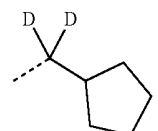
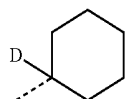
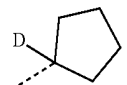
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 R^{B19} R^{B20} R^{B21} R^{B22} R^{B23} R^{B24} R^{B25} R^{B26} R^{B27} R^{B28}

-continued



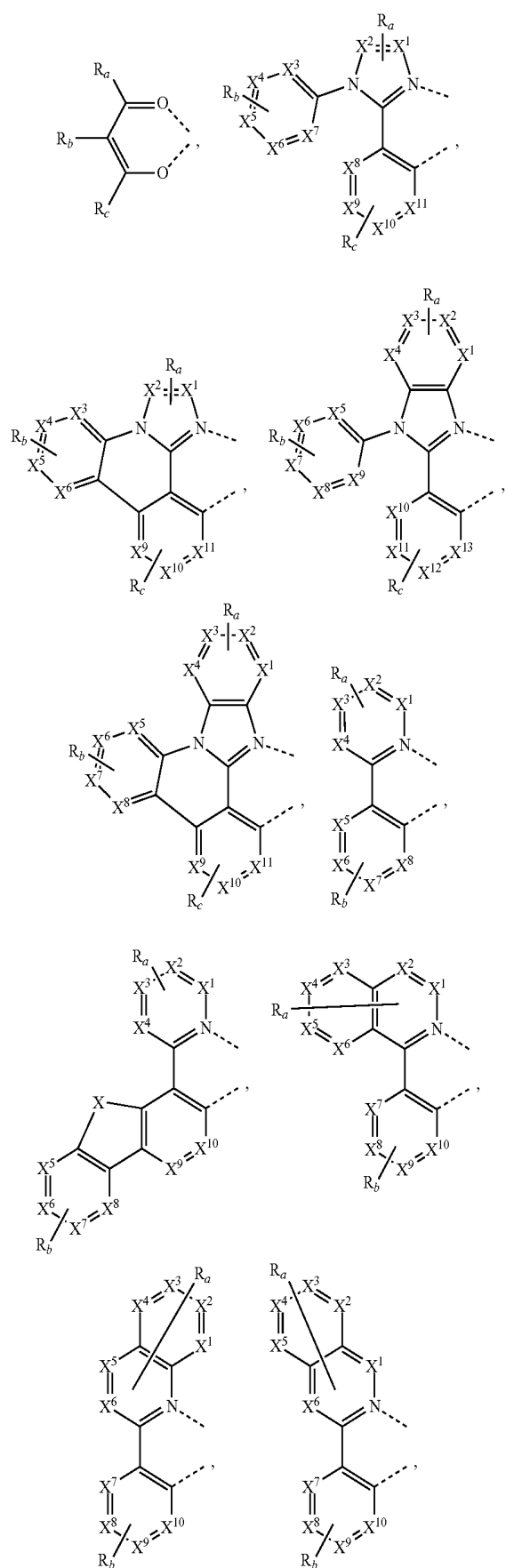
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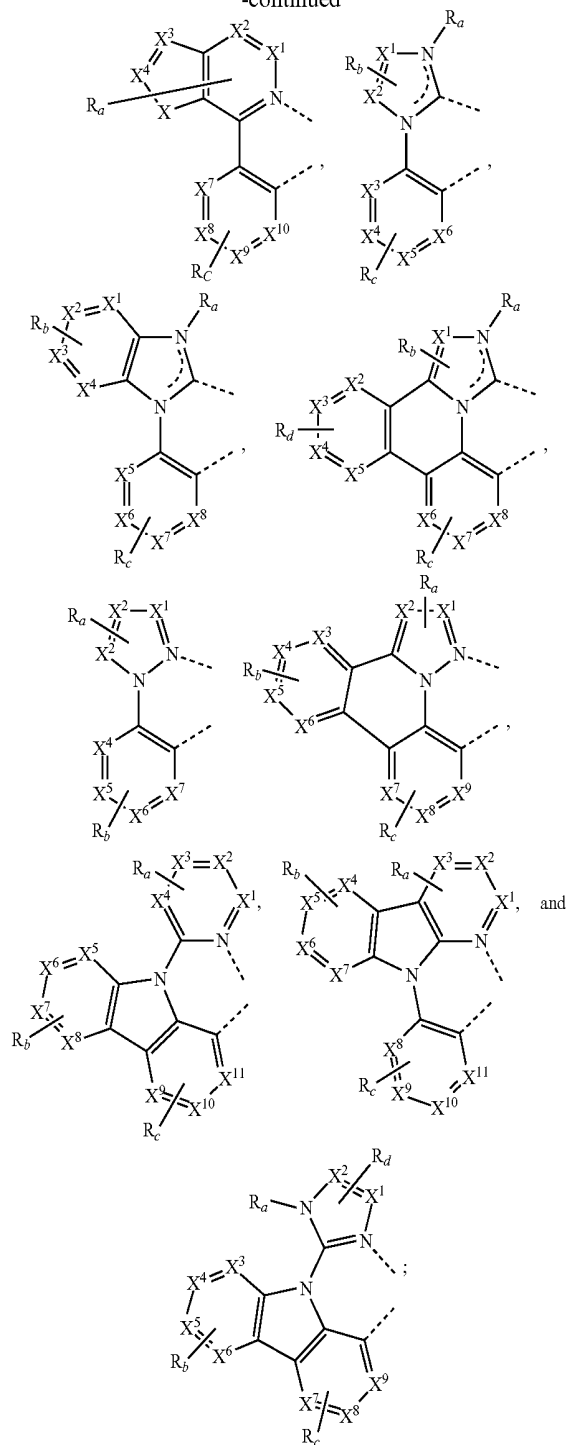
[0090] In some embodiments, the compound has a formula of $M(L_A)_x(L_B)_y(L_C)_z$ where L_A can be as defined above and L_B and L_C are each a bidentate ligand; and where x is 1, 2, or 3; y is 0, 1, or 2; z is 0, 1, or 2; and $x+y+z$ is the oxidation state of the metal M . In some embodiments, the compound has a formula selected from the group consisting of $Ir(L_A)_3$, $Ir(L_A)(L_B)_2$, $Ir(L_A)_2(L_B)$, $Ir(L_A)_2(L_C)$, and $Ir(L_A)(L_B)(L_C)$; and wherein L_A , L_B , and L_C are different from each other.

[0091] In some embodiments, the compound has a formula of $Pt(L_A)(L_B)$; and wherein L_A and L_B can be same or different. In some embodiments, L_A and L_B are connected to form a tetradentate ligand. In some embodiments of the compound having the formula of $Pt(L_A)(L_B)$, L_A and L_B are connected at two places to form a macrocyclic tetradentate ligand.

[0092] In some embodiments where the compound has a formula of $M(L_A)_x(L_B)_y(L_C)_z$ where L_A can be as defined above and L_B and L_C are each a bidentate ligand; and where x is 1, 2, or 3; y is 0, 1, or 2; z is 0, 1, or 2; and $x+y+z$ is the oxidation state of the metal M ; L_B and L_C are each independently selected from the group consisting of:



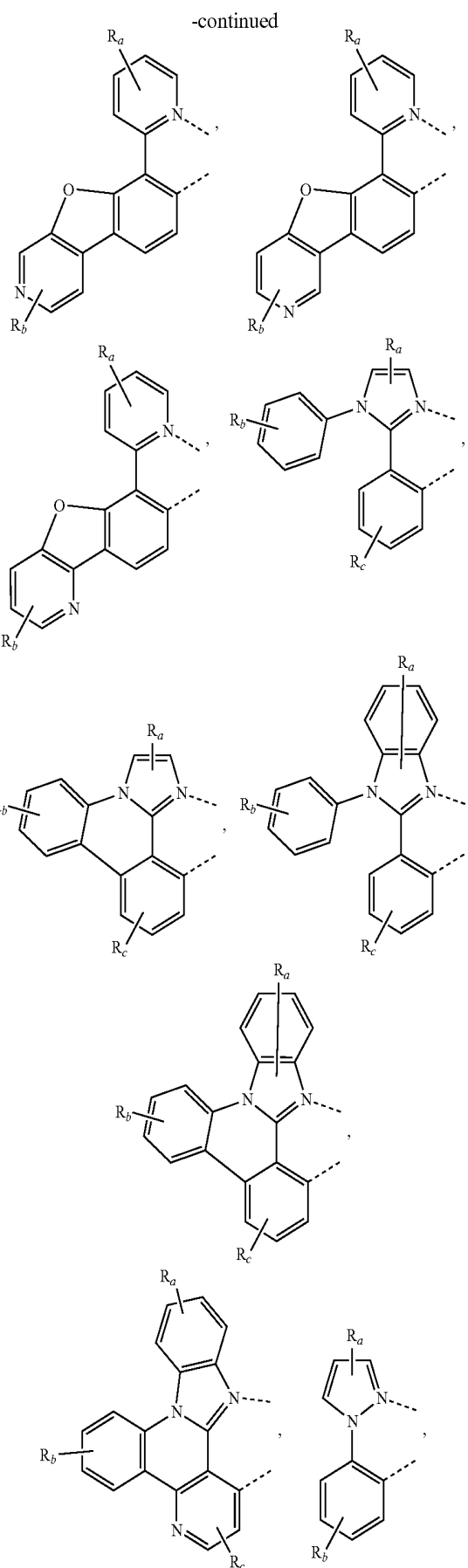
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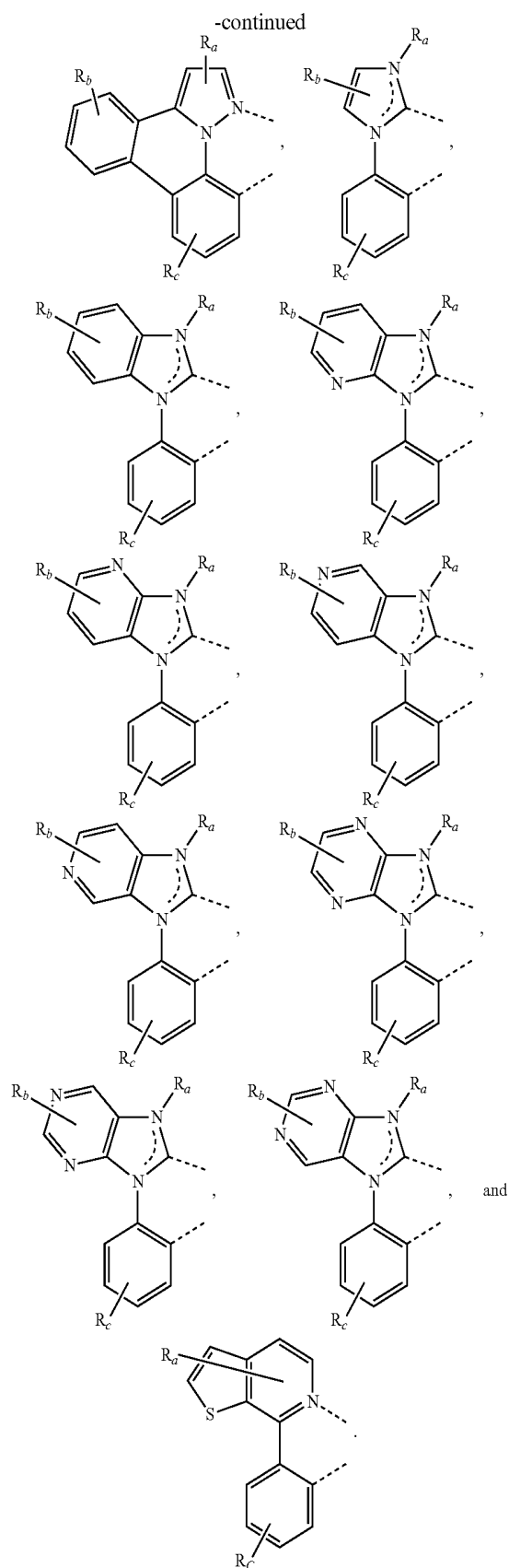


[0093] wherein,

[0094] each X^1 to X^{13} are independently selected from the group consisting of carbon and nitrogen;[0095] X is selected from the group consisting of BR' , NR' , PR' , O , S , Se , $C=O$, $S=O$, SO_2 , $CR'R''$, $SiR'R''$, and $GeR'R''$;[0096] R' and R'' are optionally fused or joined to form a ring;[0097] each R_a , R_b , R_c , and R_d may represent from mono substitution to the a maximum possible number of substitutions, or no substitution;

[0100] In some embodiments where the compound has a formula of $M(L_A)_x(L_B)_y(L_C)_z$ where L_A can be as defined above and L_B and L_C are each a bidentate ligand; and where x is 1, 2, or 3; y is 0, 1, or 2; z is 0, 1, or 2; and $x+y+z$ is the oxidation state of the metal M , wherein L_B and L_C are each independently selected from the group consisting of:



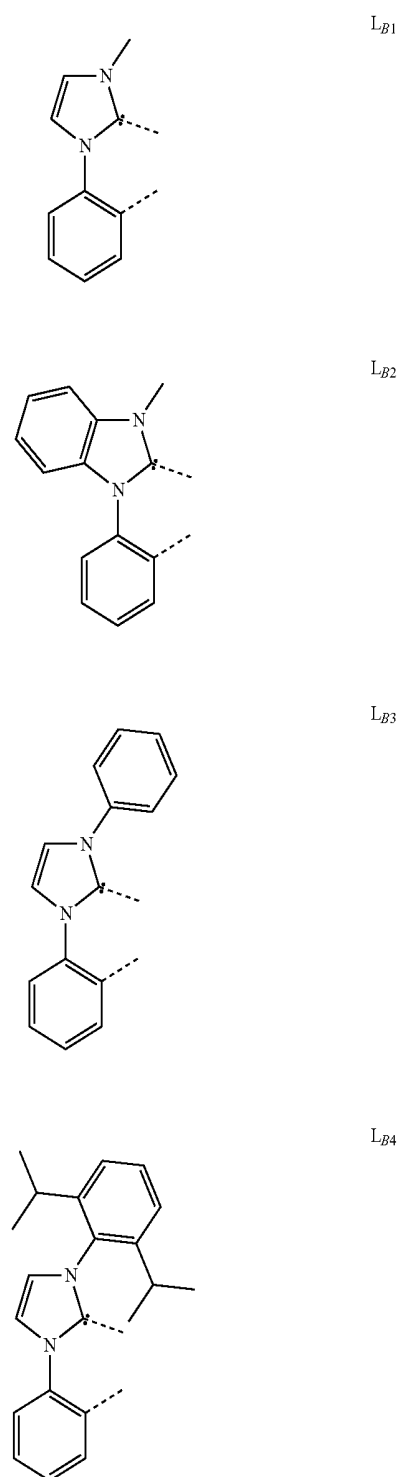


$\text{Ir}(\text{L}_A)(\text{L}_S)_2$, $\text{Ir}(\text{L}_A)_2(\text{L}_B)$, $\text{Ir}(\text{L}_A)_2(\text{L}_C)$, and $\text{Ir}(\text{L}_A)(\text{L}_B)(\text{L}_C)$; and wherein L_A , L_B , and L_C are different from each other, the compound is Compound Ax having the formula $\text{Ir}(\text{L}_{Ai})_3$, Compound By having the formula $\text{Ir}(\text{L}_{Ai})(\text{L}_{Bk})_2$, or Compound Cz having the formula $\text{Ir}(\text{L}_{Ai})_2(\text{L}_{Cj})$;

[0102] where $x=i$, $y=460i+k-460$, and $z=27i+j-27$;

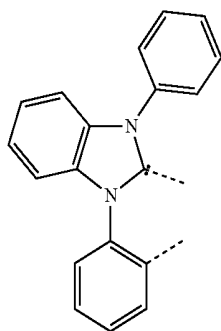
[0103] where i is an integer from 1 to 2492, and k is an integer from 1 to 460, and j is an integer from 1 to 27;

[0104] where L_{Bk} has the following structures:

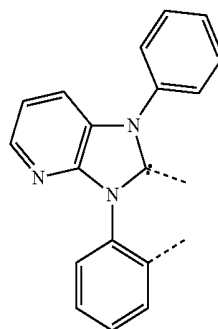
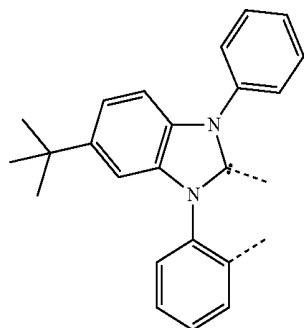
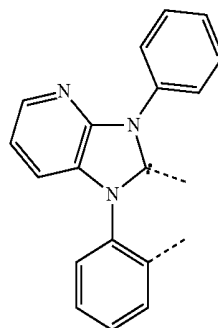
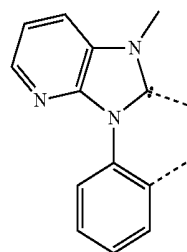
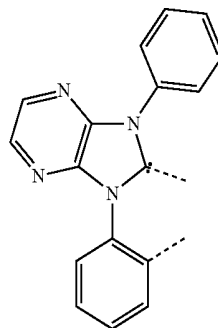
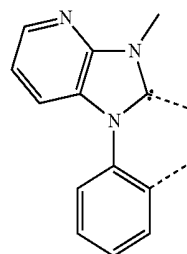
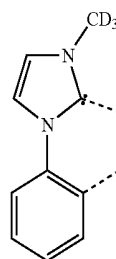
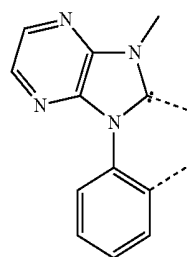
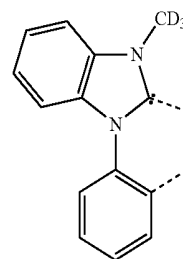


[0101] In some embodiments where the compound has a formula selected from the group consisting of $\text{Ir}(\text{L}_A)_3$,

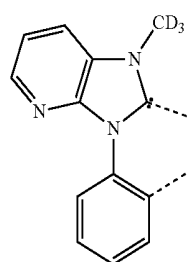
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 L_{B5}

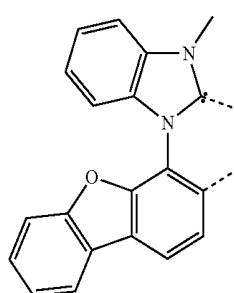
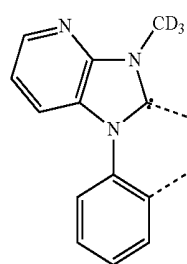
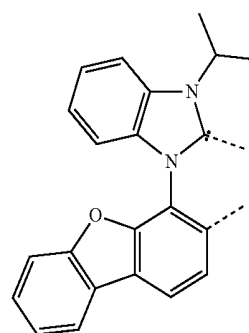
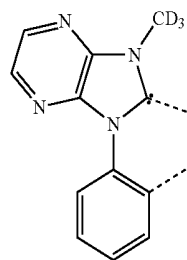
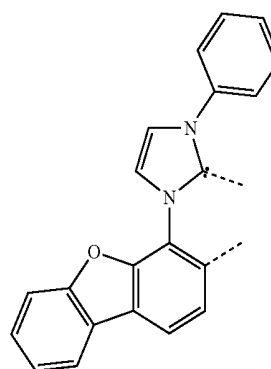
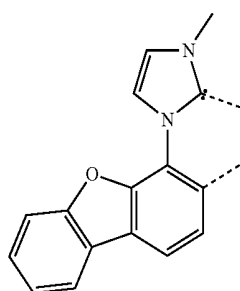
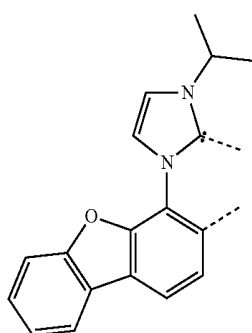
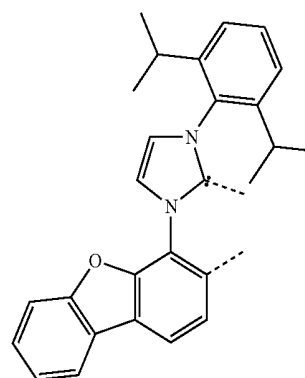
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 L_{B10}  L_{B6}  L_{B11}  L_{B7}  L_{B12}  L_{B8}  L_{B13}  L_{B9}  L_{B14}

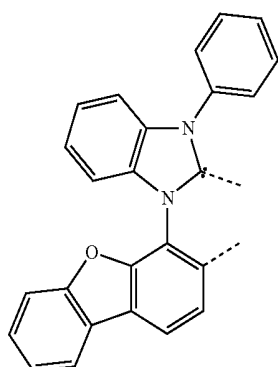
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L_{B15}

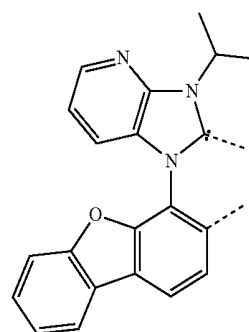
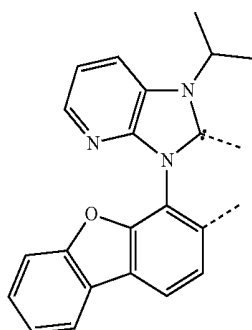
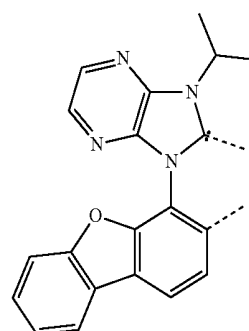
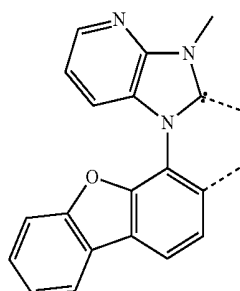
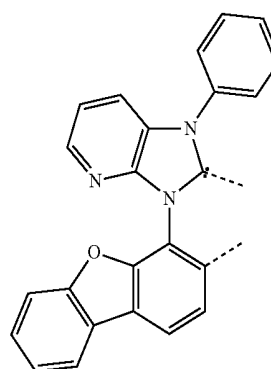
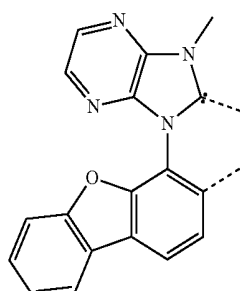
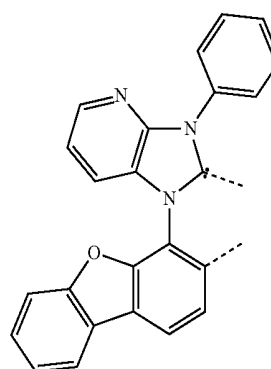
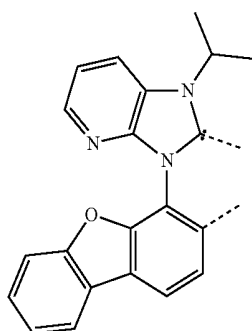
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L_{B20}L_{B16}L_{B21}L_{B17}L_{B22}L_{B18}L_{B19}L_{B23}

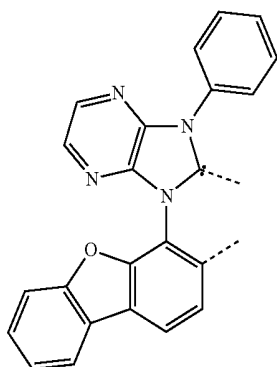
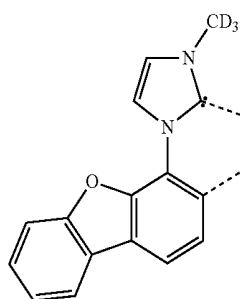
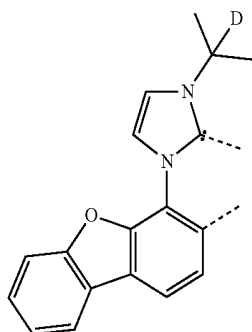
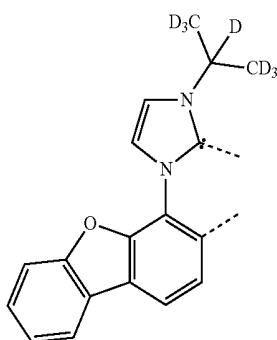
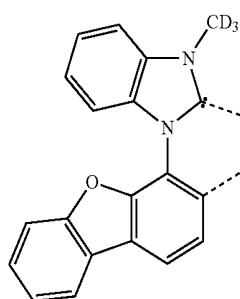
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L_{B24}

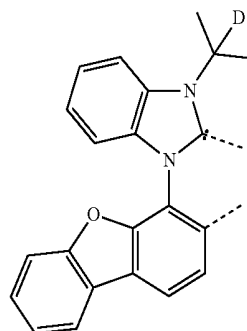
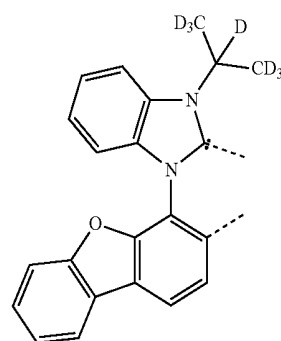
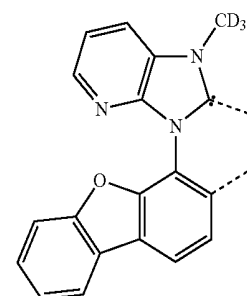
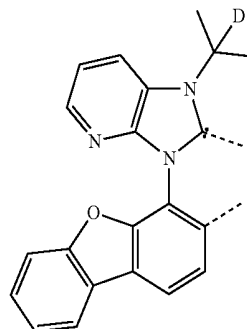
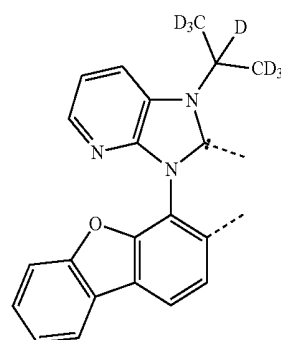
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L_{B29}L_{B25}L_{B30}L_{B26}L_{B31}L_{B27}L_{B32}L_{B28}

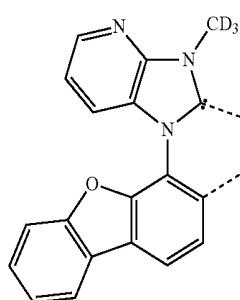
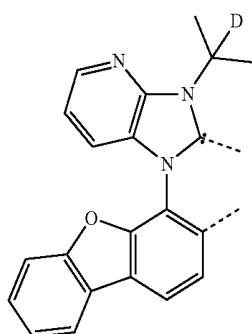
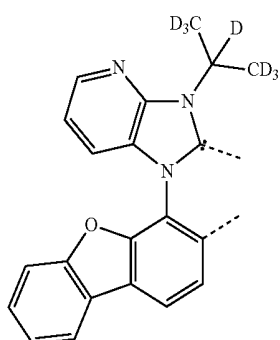
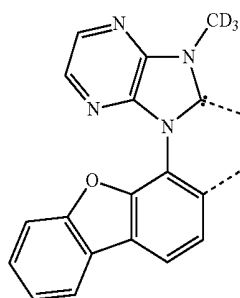
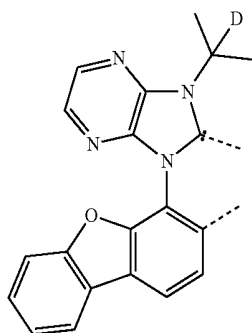
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L_{B33}L_{B34}L_{B35}L_{B36}L_{B37}

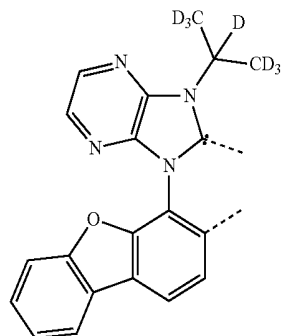
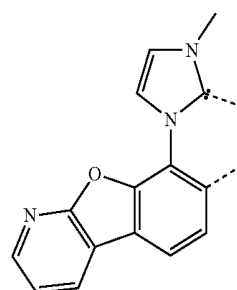
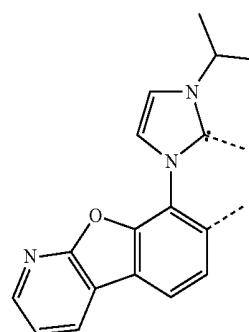
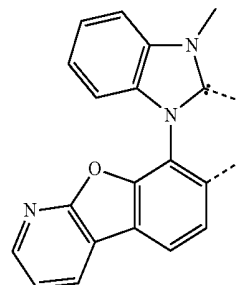
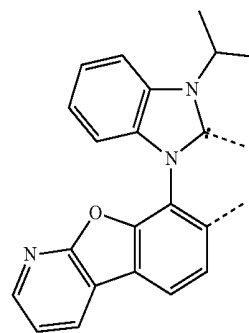
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L_{B38}L_{B39}L_{B40}L_{B41}L_{B42}

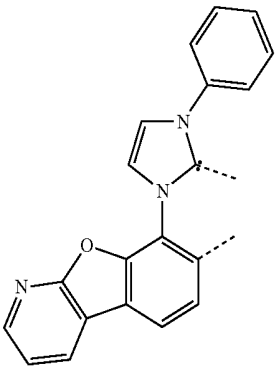
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L_{B43}L_{B44}L_{B45}L_{B46}L_{B47}

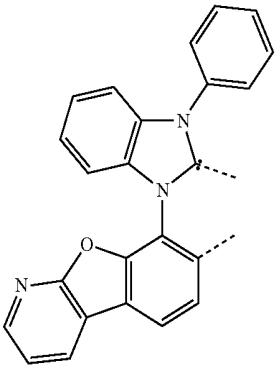
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L_{B48}L_{B49}L_{B50}L_{B51}L_{B52}

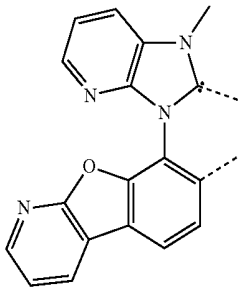
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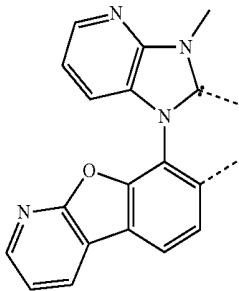
L_{B53}



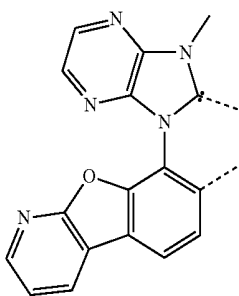
L_{B54}



L_{B55}

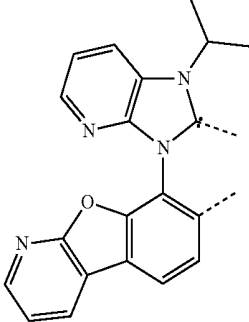


L_{B56}

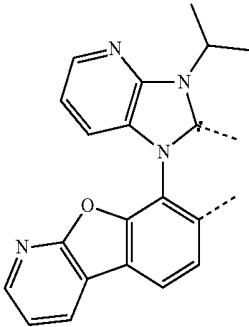


L_{B57}

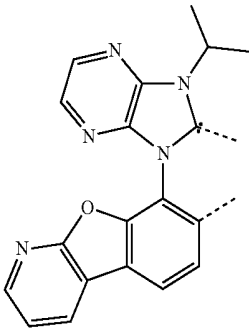
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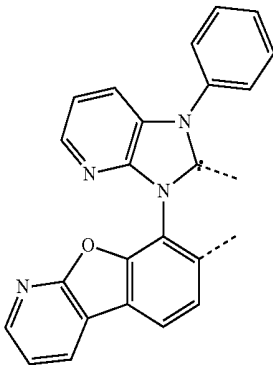
L_{B58}



L_{B59}

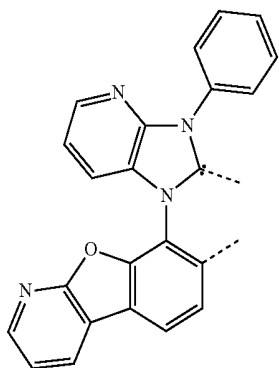
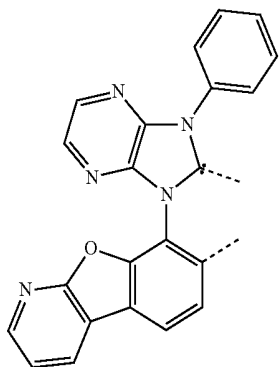
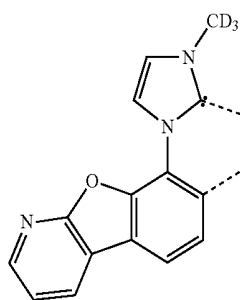
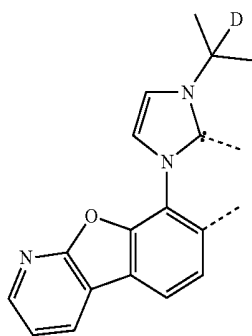


L_{B60}

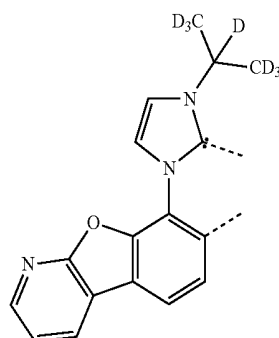
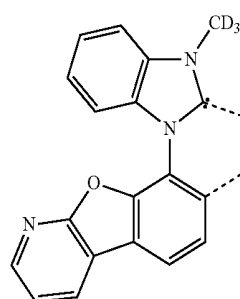
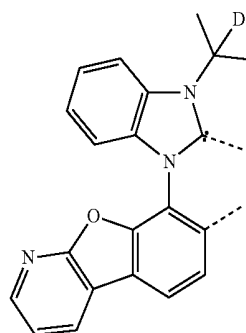
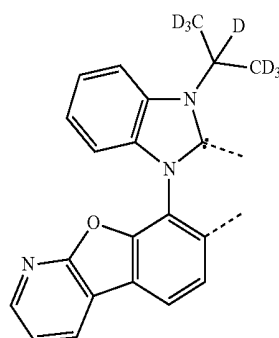
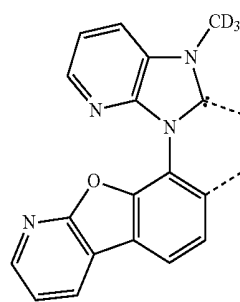


L_{B61}

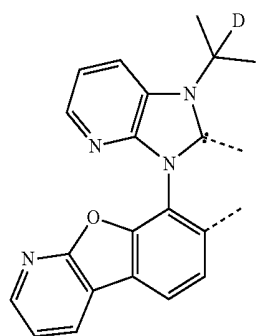
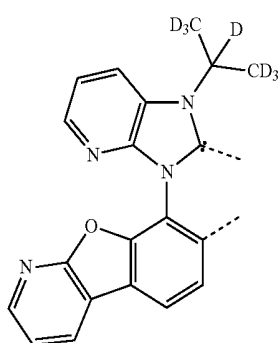
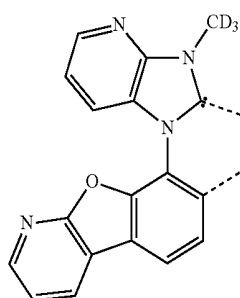
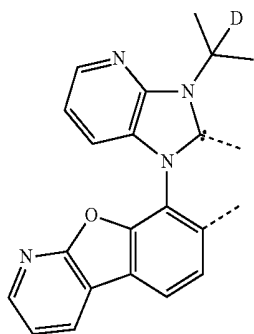
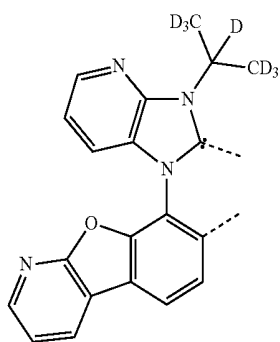
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L_{B62}L_{B63}L_{B64}L_{B65}

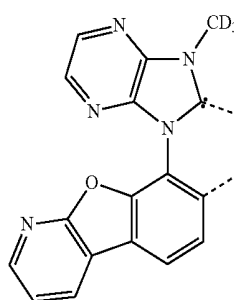
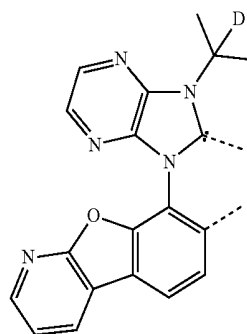
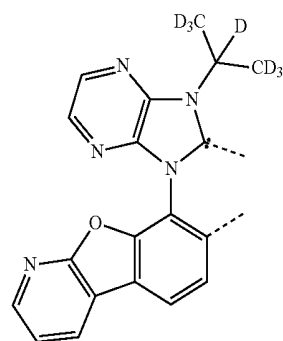
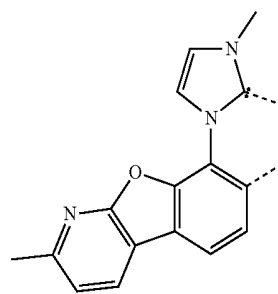
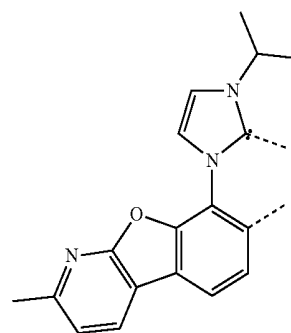
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L_{B66}L_{B67}L_{B68}L_{B69}L_{B70}

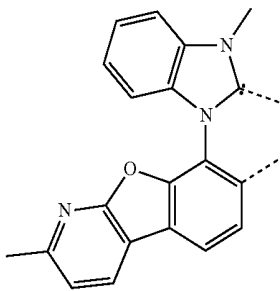
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L_{B71}L_{B72}L_{B73}L_{B74}L_{B75}

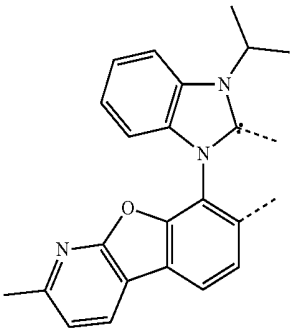
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L_{B76}L_{B77}L_{B78}L_{B79}L_{B80}

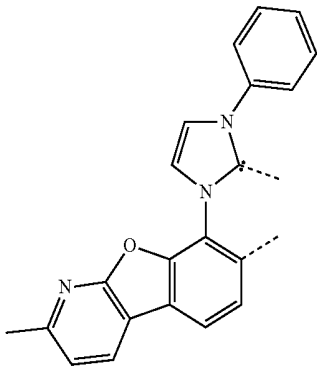
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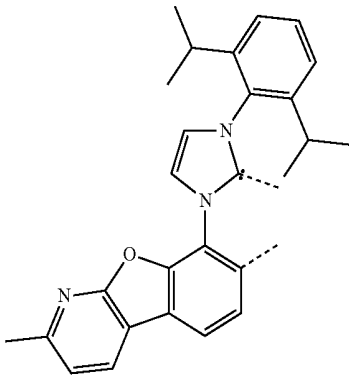
L_{B81}



L_{B82}

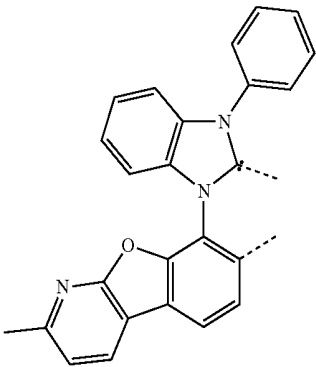


L_{B83}

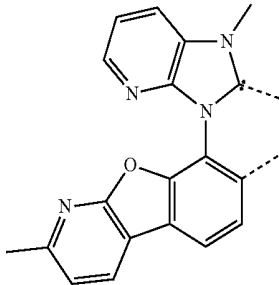


L_{B84}

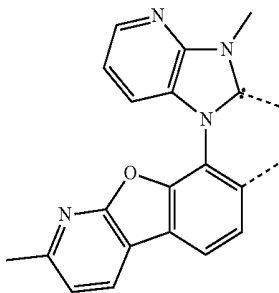
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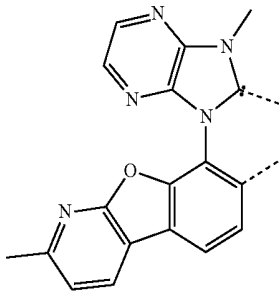
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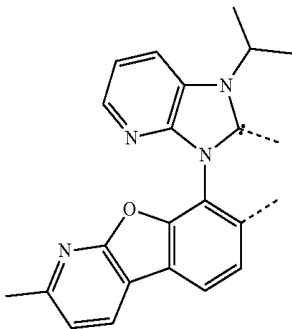
L_{B86}



L_{B87}

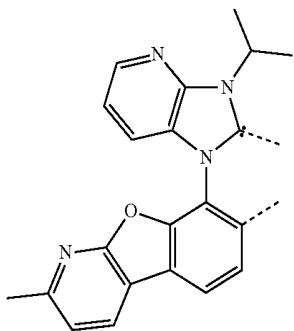
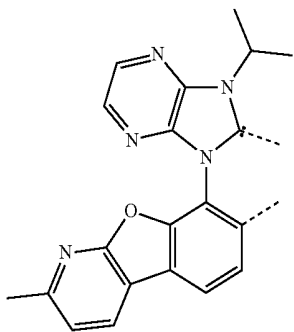
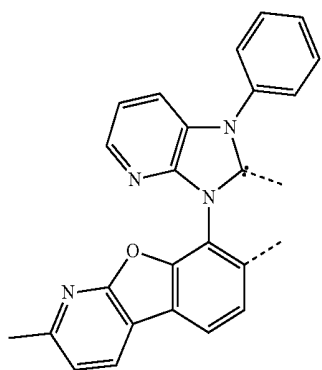
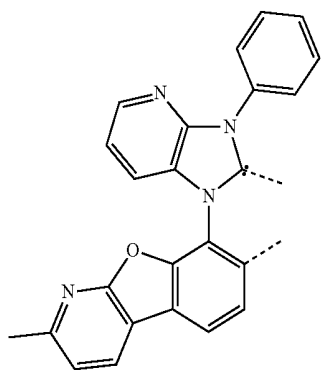


L_{B88}

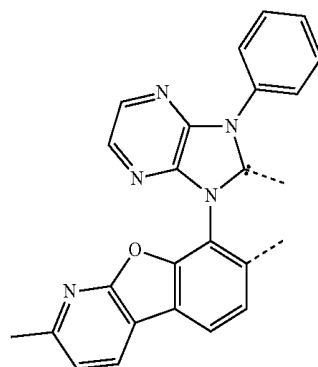
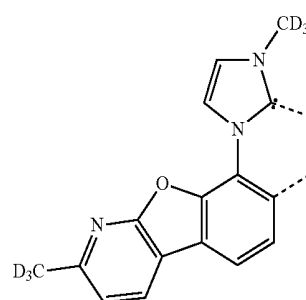
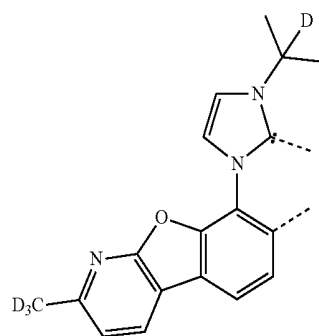
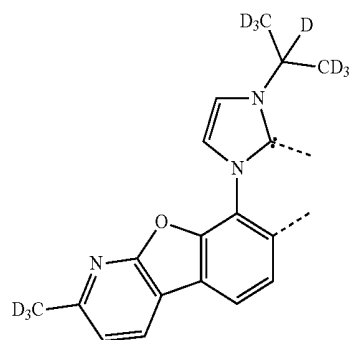
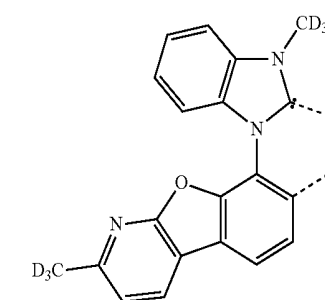


L_{B89}

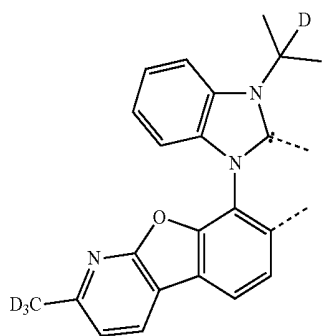
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L_{B90}L_{B91}L_{B92}L_{B93}

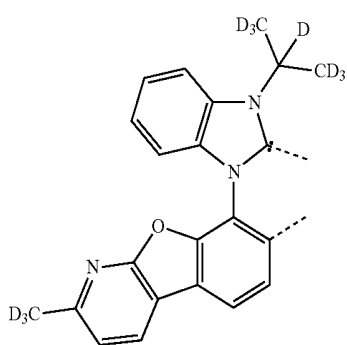
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L_{B94}L_{B95}L_{B96}L_{B97}L_{B98}

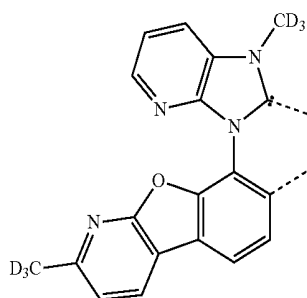
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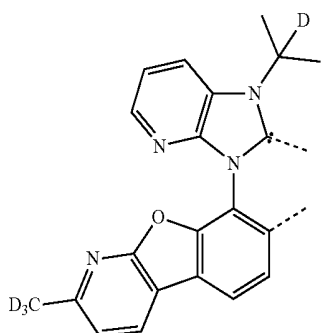
LB99



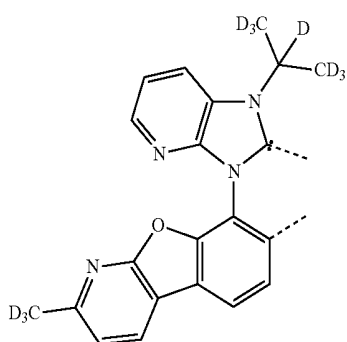
LB100



LB101

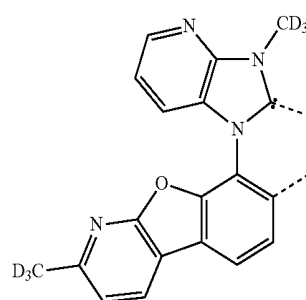


LB102

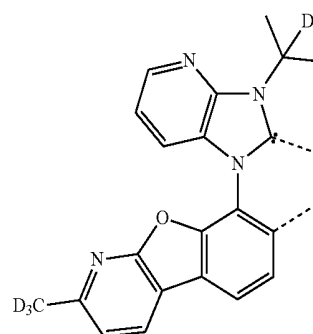


LB103

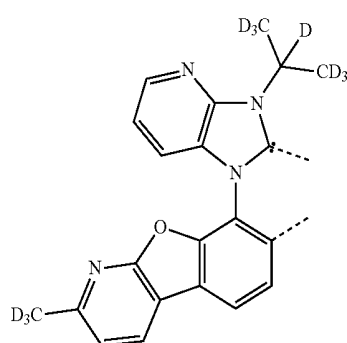
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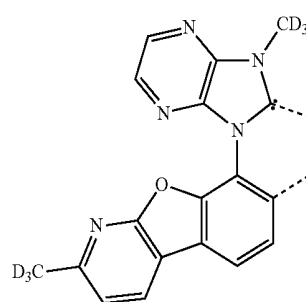
LB104



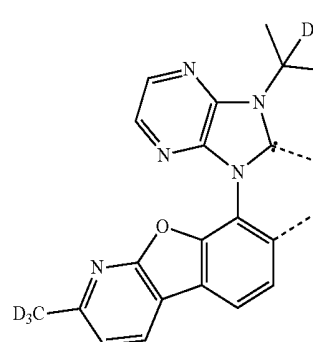
LB105



LB106

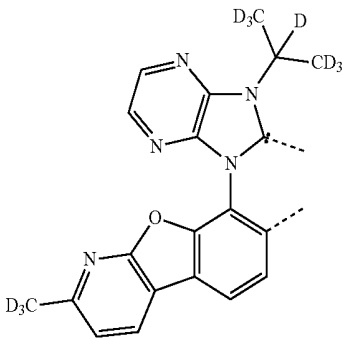


LB107



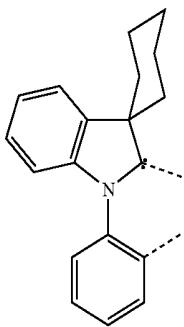
LB108

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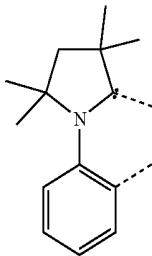
L_{B109}

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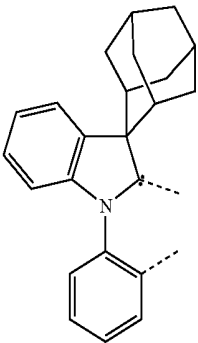


L_{B114}

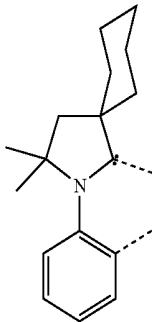
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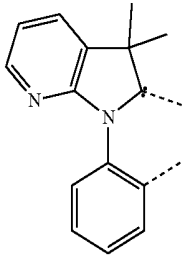
L_{B115}



L_{B111}

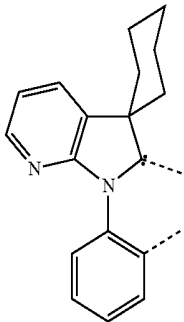
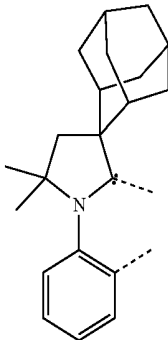


L_{B116}



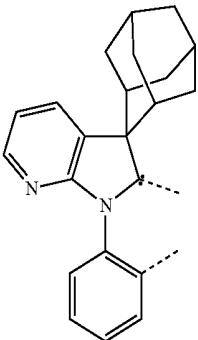
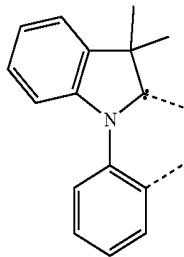
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L_{B112}

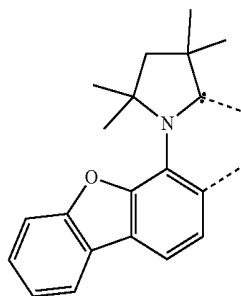
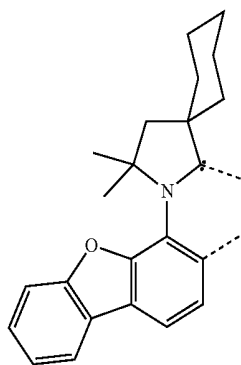
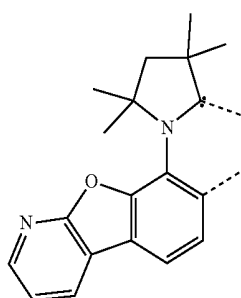
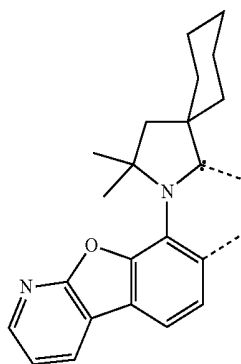
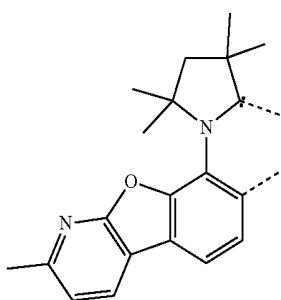


L_{B118}

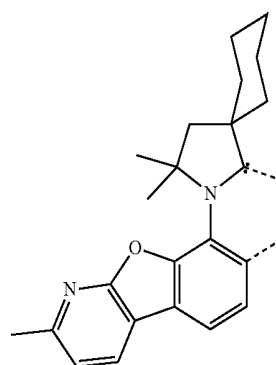
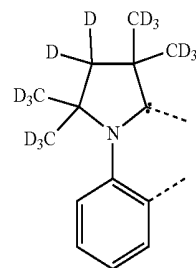
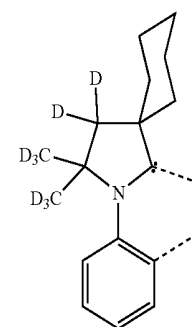
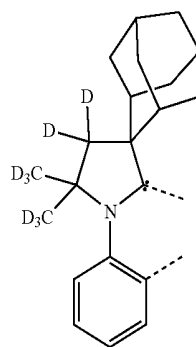
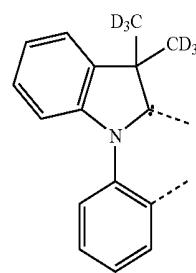
L_{B113}



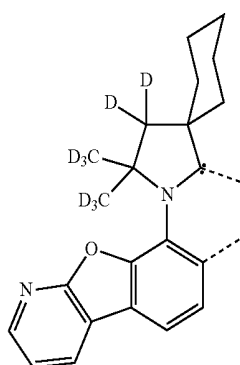
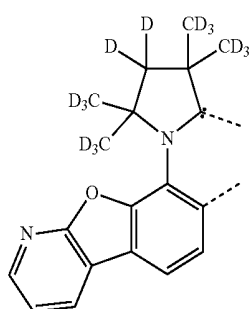
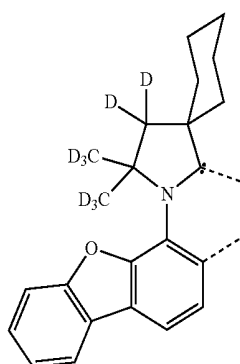
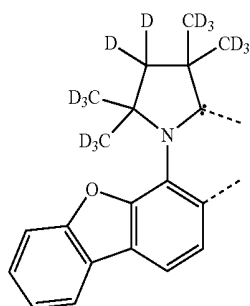
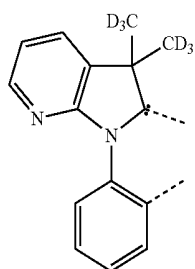
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L_{B119}L_{B120}L_{B121}L_{B122}L_{B123}

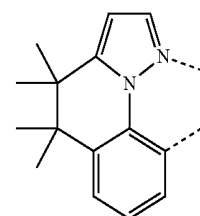
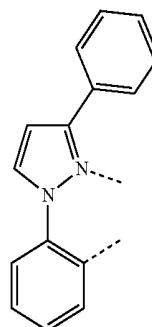
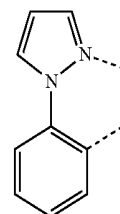
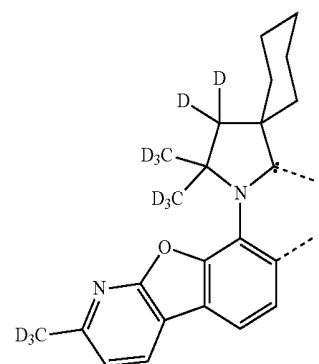
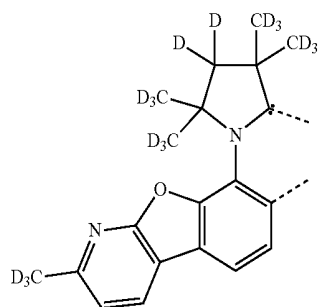
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L_{B124}L_{B125}L_{B126}L_{B127}L_{B128}

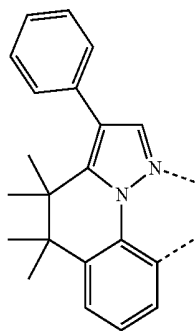
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L_{B129}L_{B130}L_{B131}L_{B132}L_{B133}

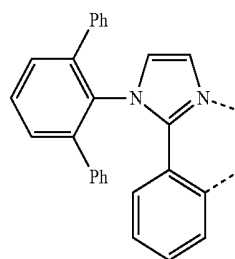
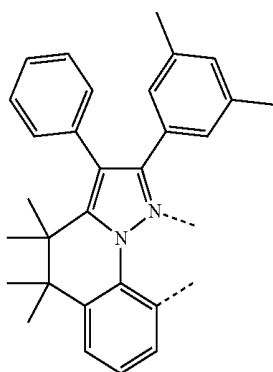
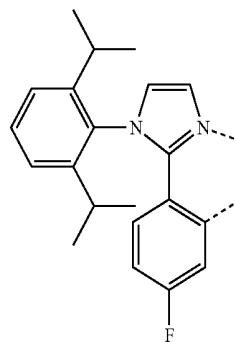
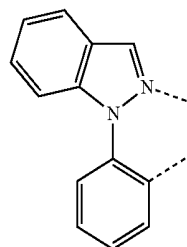
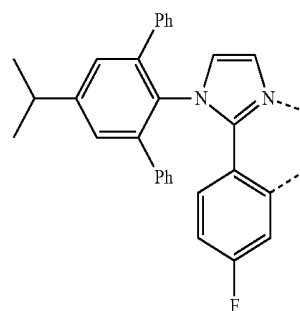
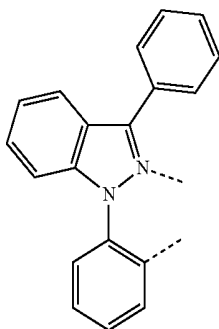
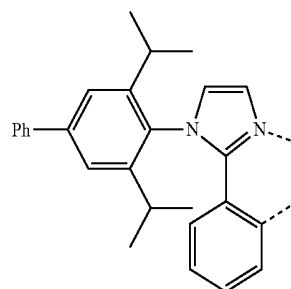
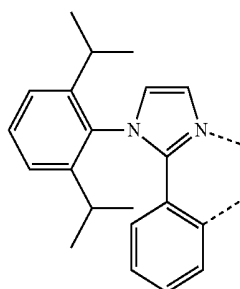
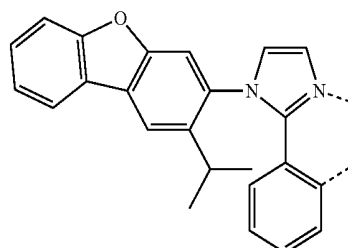
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L_{B134}L_{B135}L_{B136}L_{B137}L_{B138}

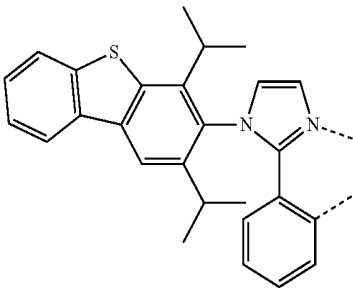
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L_{B139}

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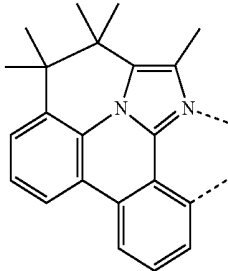
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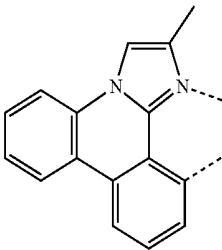


L_{B149}

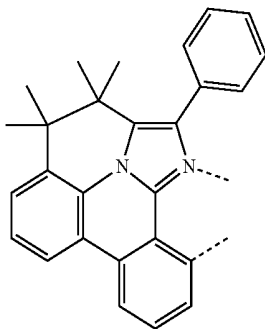
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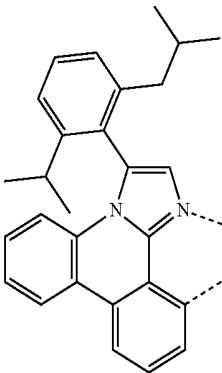
L_{B154}



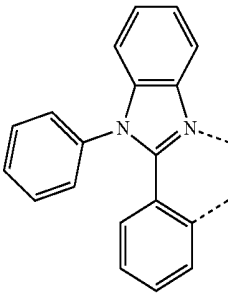
L_{B150}



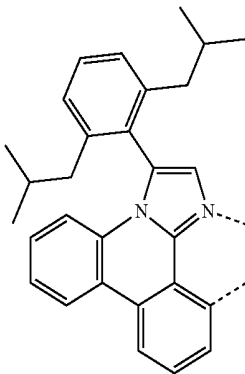
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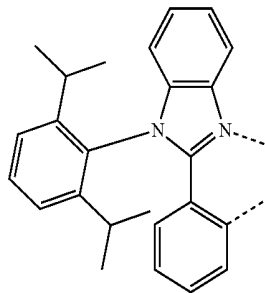
L_{B151}



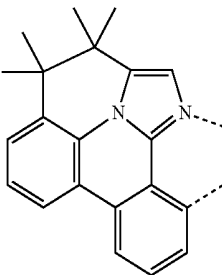
L_{B156}



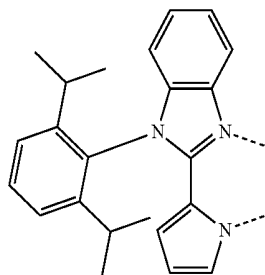
L_{B152}



L_{B157}

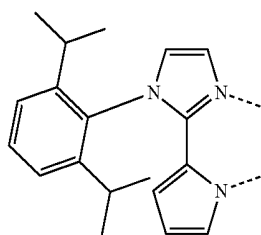
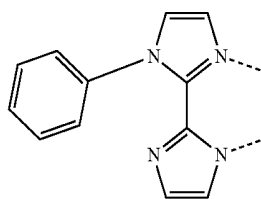
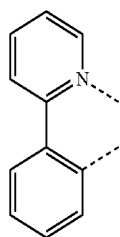
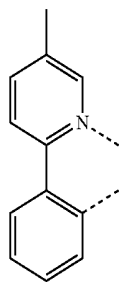
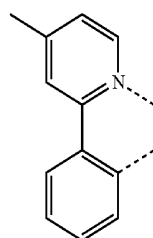
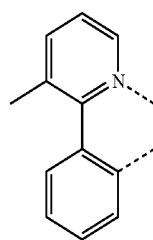


L_{B153}

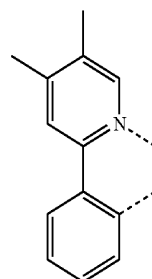
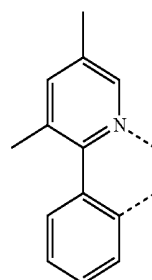
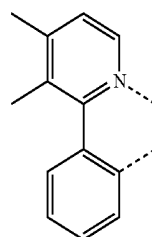
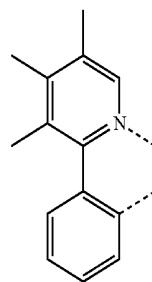
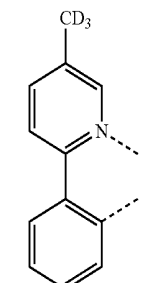
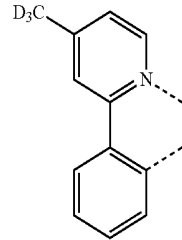


L_{B158}

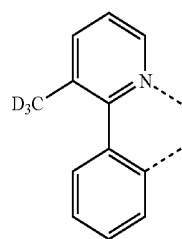
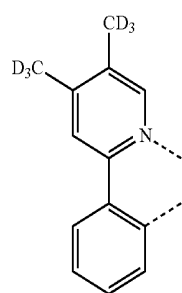
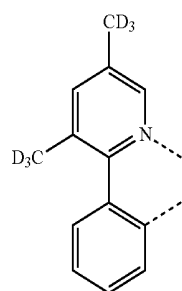
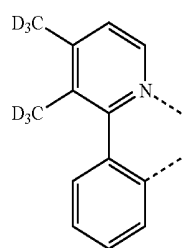
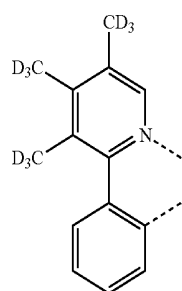
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L_{B159}L_{B160}L_{B161}L_{B162}L_{B163}L_{B164}

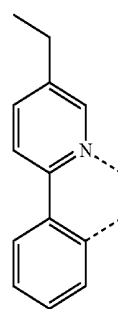
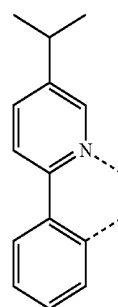
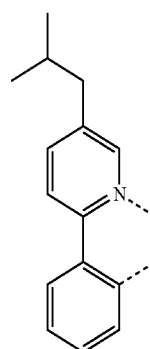
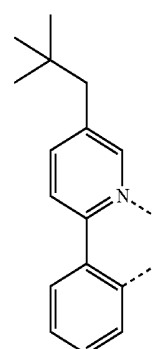
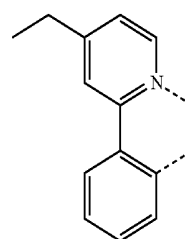
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L_{B165}L_{B166}L_{B167}L_{B168}L_{B169}L_{B170}

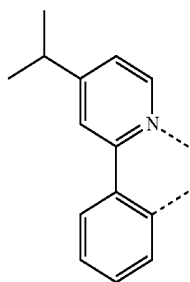
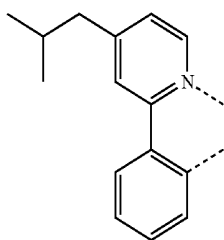
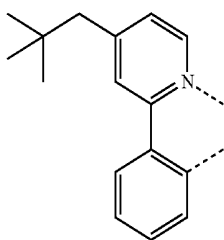
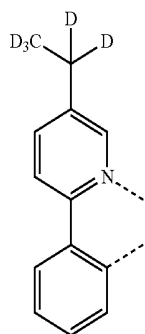
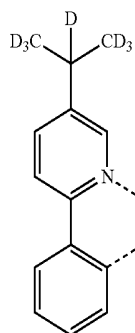
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L_{B171}L_{B172}L_{B173}L_{B174}L_{B175}

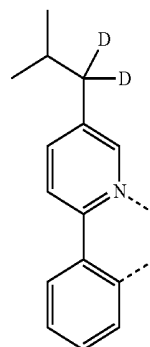
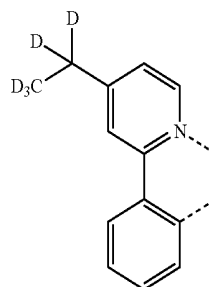
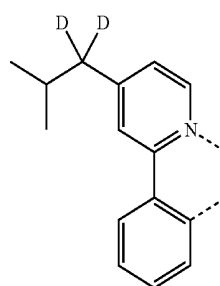
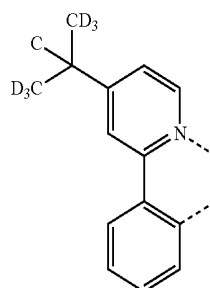
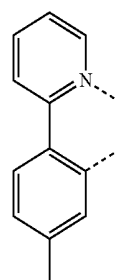
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L_{B176}L_{B177}L_{B178}L_{B179}L_{B180}

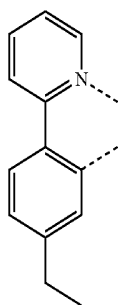
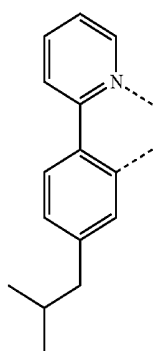
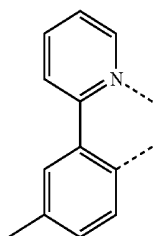
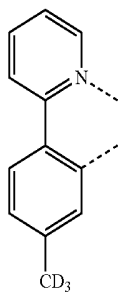
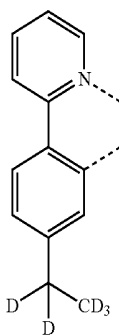
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L_{B181}L_{B182}L_{B183}L_{B184}L_{B185}

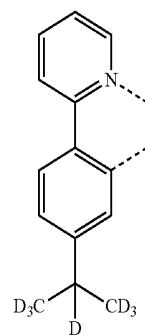
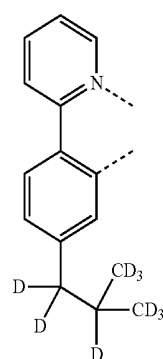
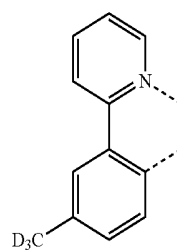
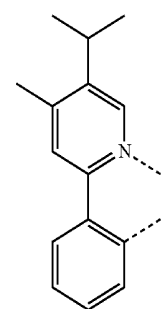
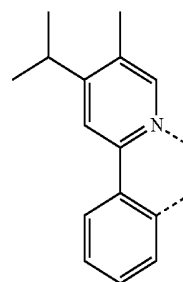
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L_{B186}L_{B187}L_{B188}L_{B189}L_{B190}

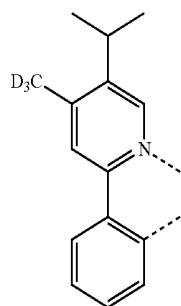
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L_{B191}L_{B192}L_{B193}L_{B194}L_{B195}

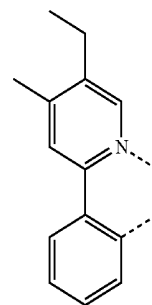
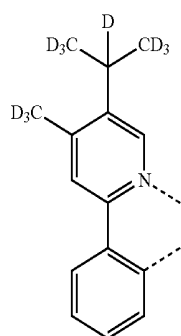
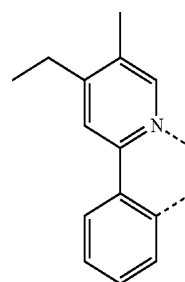
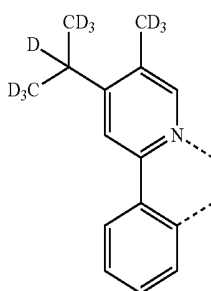
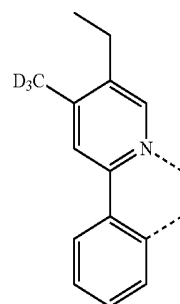
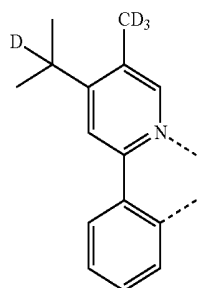
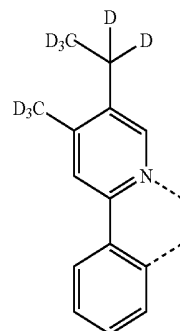
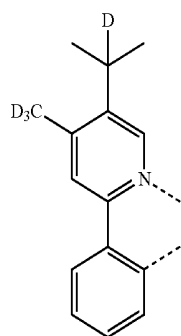
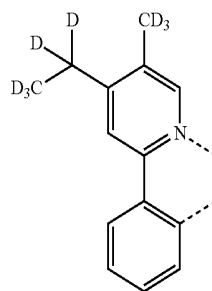
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L_{B196}L_{B197}L_{B198}L_{B199}L_{B200}

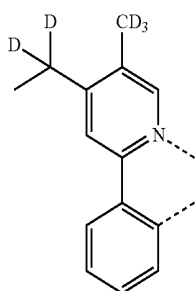
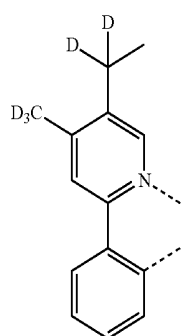
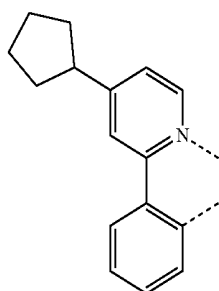
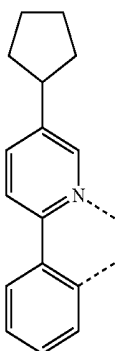
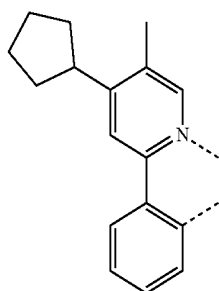
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L_{B201}

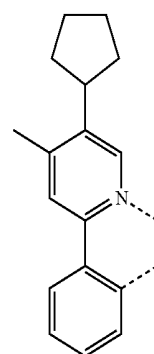
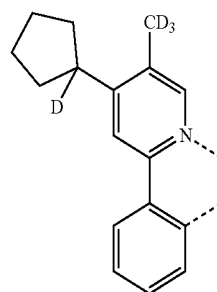
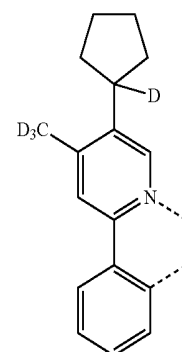
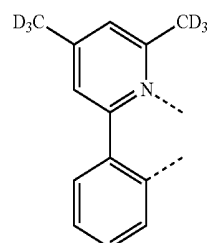
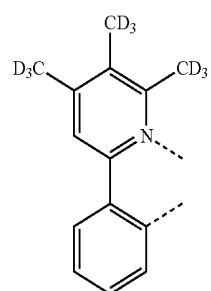
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L_{B206}L_{B202}L_{B207}L_{B203}L_{B208}L_{B204}L_{B209}L_{B205}L_{B210}

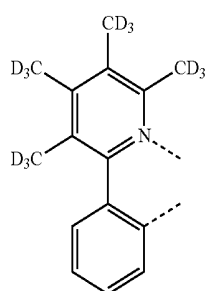
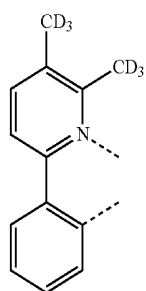
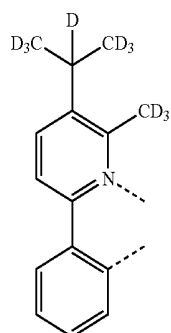
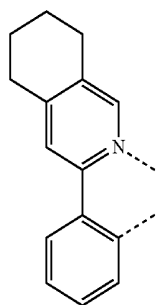
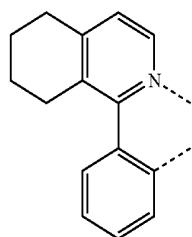
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L_{B211}L_{B212}L_{B213}L_{B214}L_{B215}

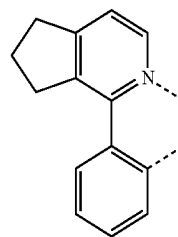
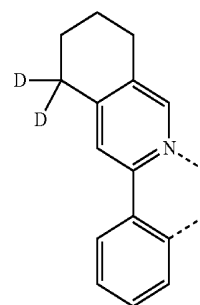
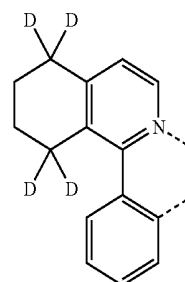
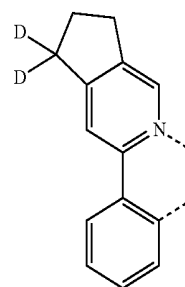
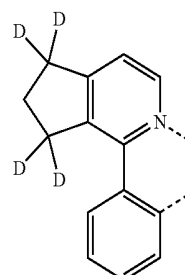
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L_{B216}L_{B217}L_{B218}L_{B219}L_{B220}

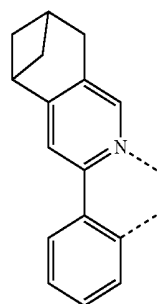
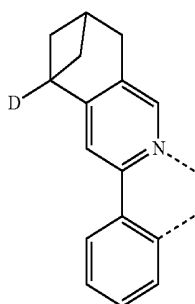
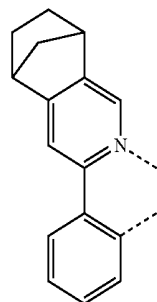
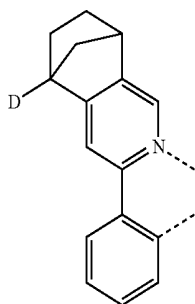
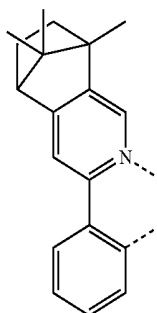
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L_{B221}L_{B222}L_{B223}L_{B224}L_{B225}

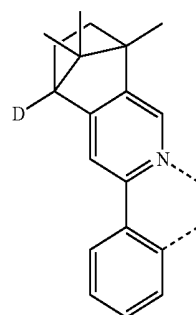
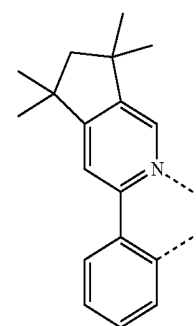
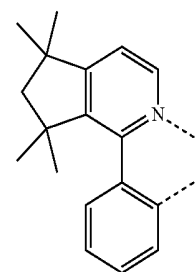
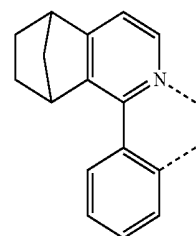
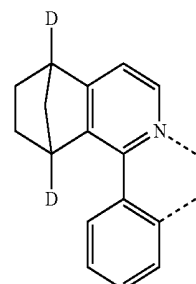
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L_{B227}L_{B228}L_{B229}L_{B230}L_{B231}

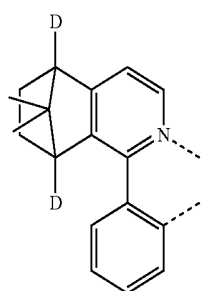
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L_{B232}L_{B233}L_{B234}L_{B235}L_{B236}

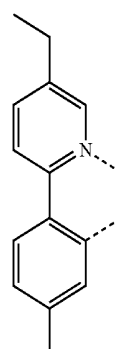
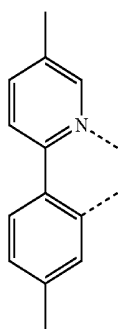
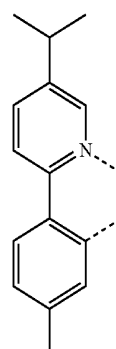
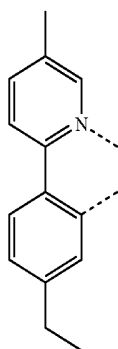
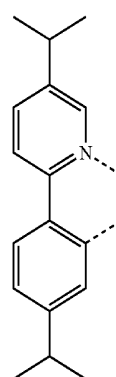
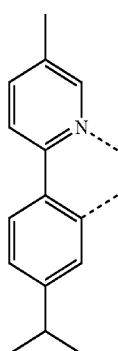
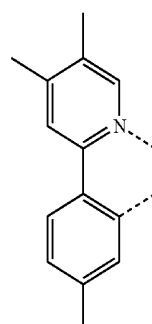
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L_{B237}L_{B238}L_{B239}L_{B240}L_{B241}

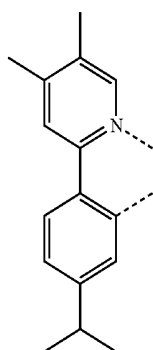
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L_{B242}

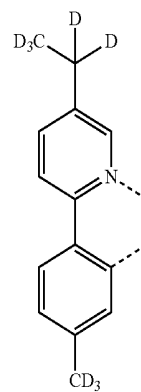
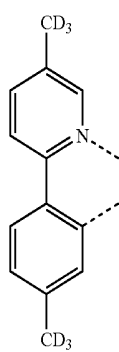
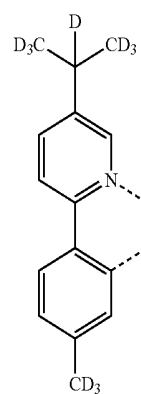
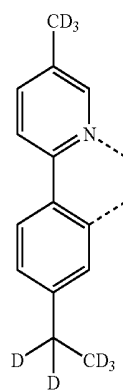
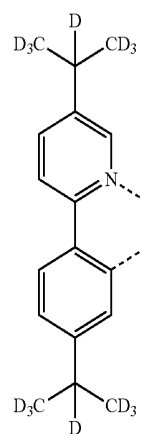
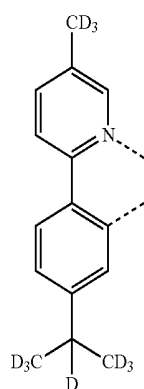
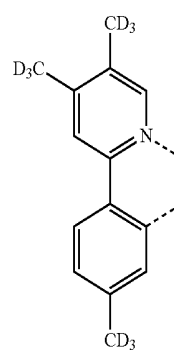
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L_{B246}L_{B243}L_{B247}L_{B244}L_{B248}L_{B245}L_{B249}

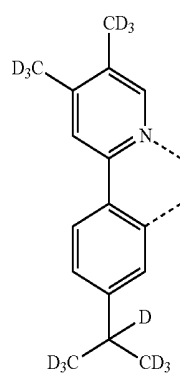
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L_{B250}

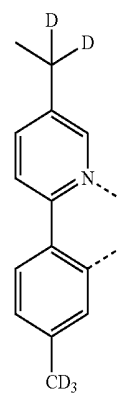
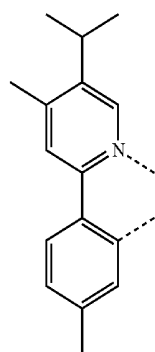
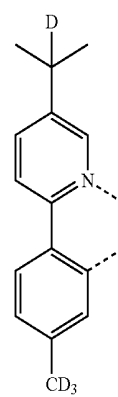
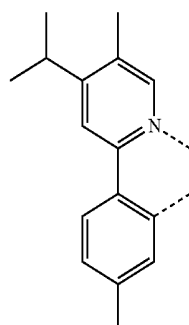
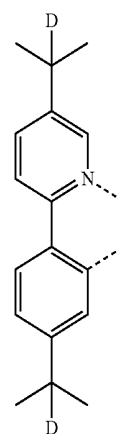
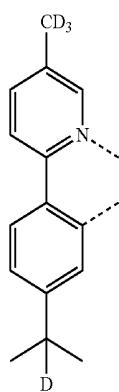
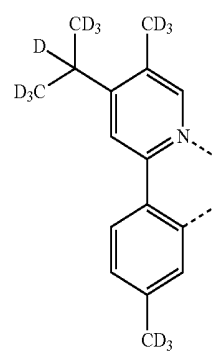
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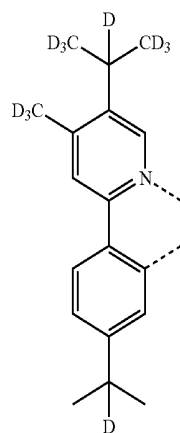
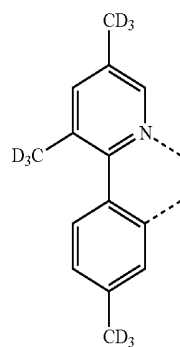
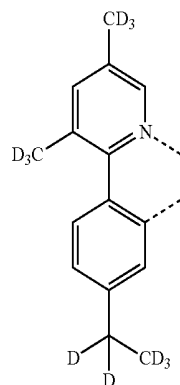
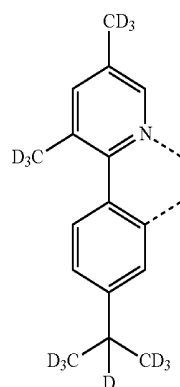
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L_{B258}

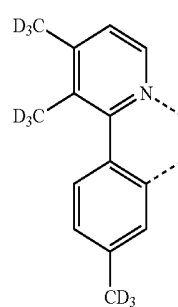
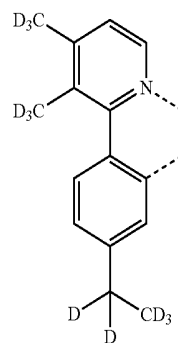
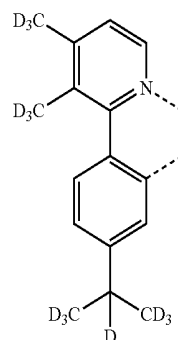
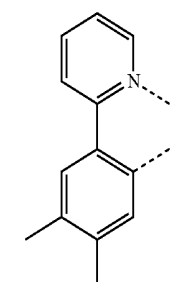
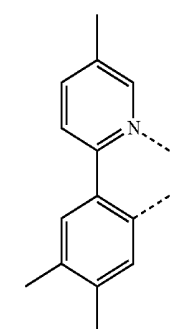
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L_{B262}L_{B259}L_{B263}L_{B260}L_{B264}L_{B261}L_{B265}

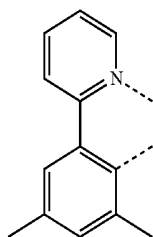
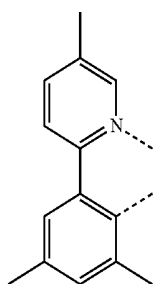
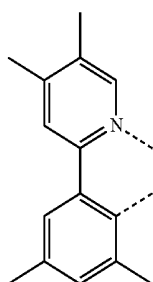
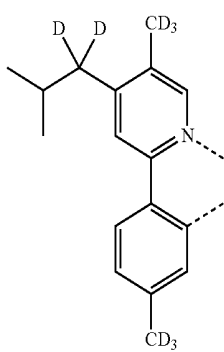
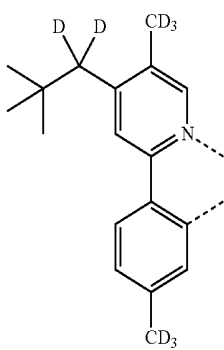
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L_{B266}L_{B267}L_{B268}L_{B269}

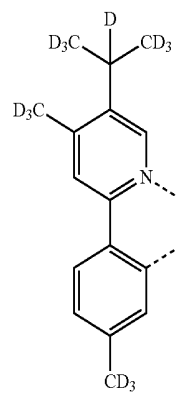
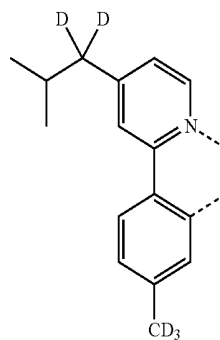
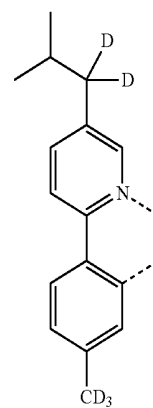
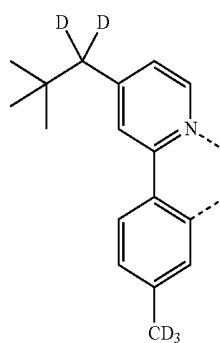
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L_{B270}L_{B271}L_{B272}L_{B273}L_{B274}

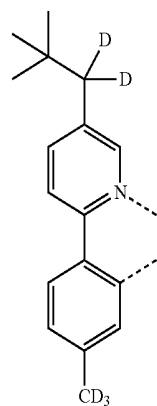
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L_{B275}L_{B276}L_{B277}L_{B278}L_{B279}

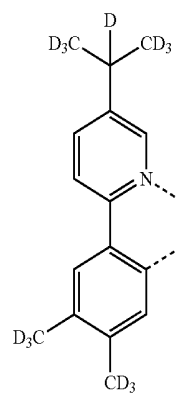
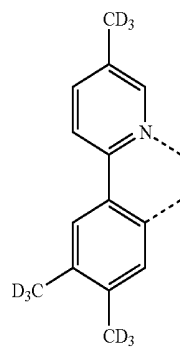
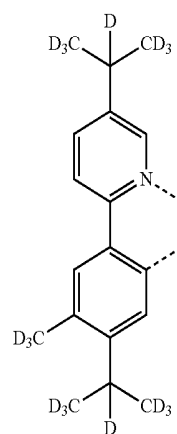
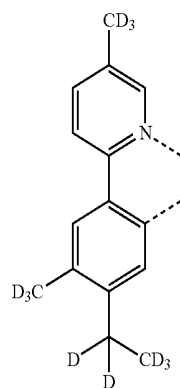
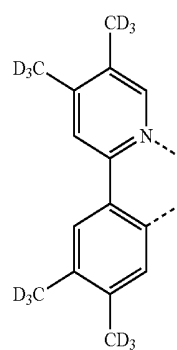
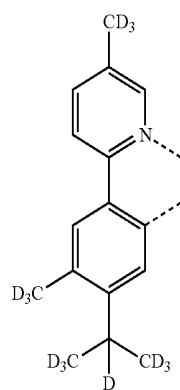
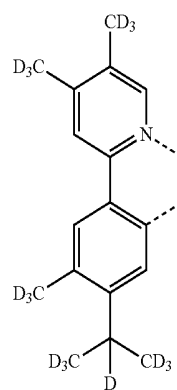
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L_{B280}L_{B281}L_{B282}L_{B283}

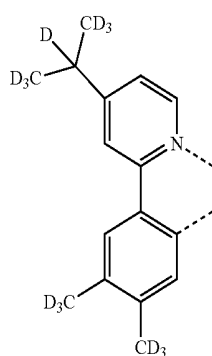
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L_{B284}

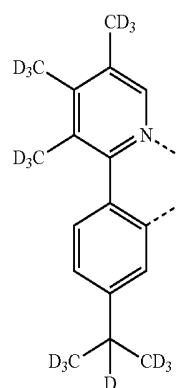
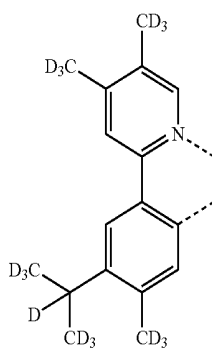
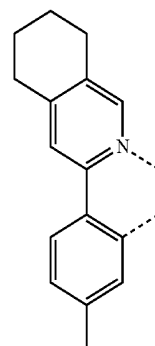
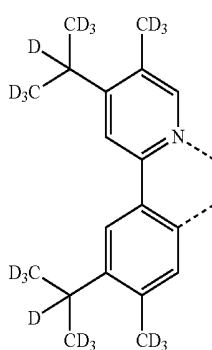
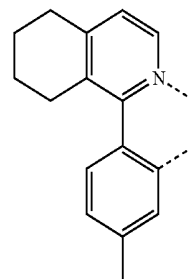
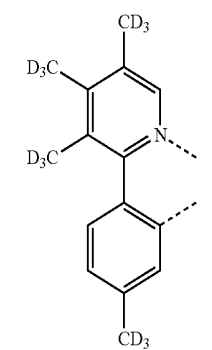
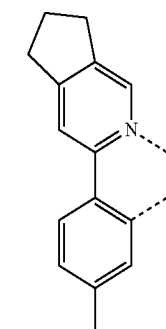
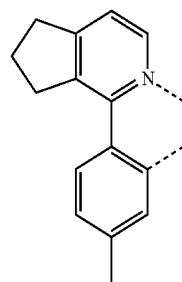
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L_{B288}L_{B285}L_{B289}L_{B286}L_{B290}L_{B287}L_{B291}

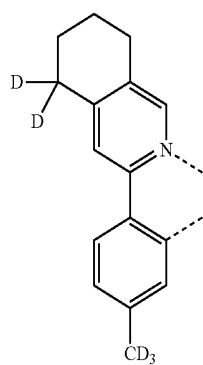
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L_{B292}

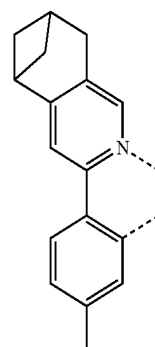
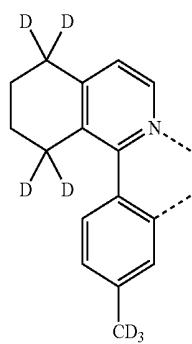
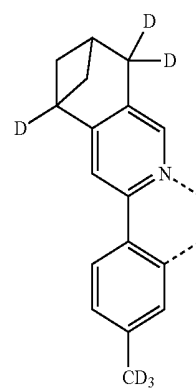
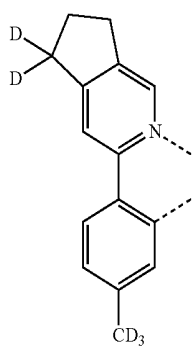
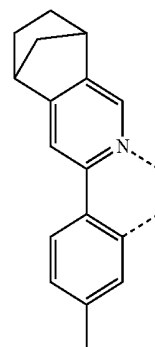
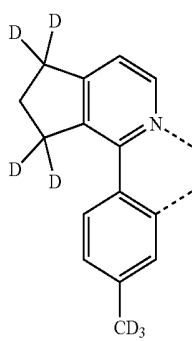
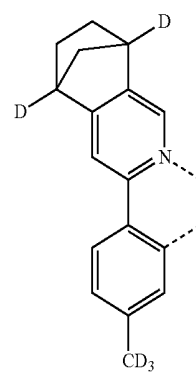
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L_{B296}L_{B293}L_{B297}L_{B294}L_{B298}L_{B295}L_{B299}L_{B300}

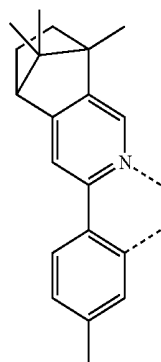
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L_{B301}

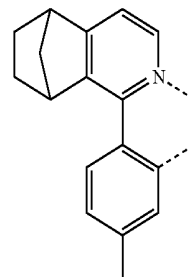
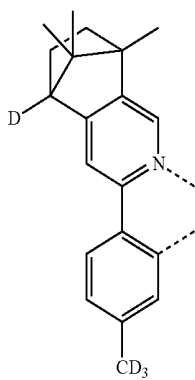
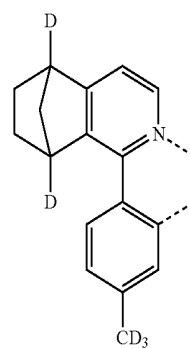
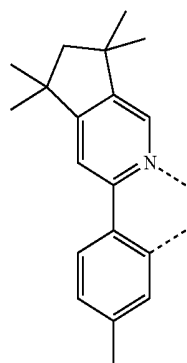
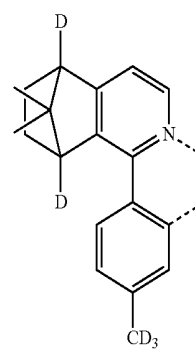
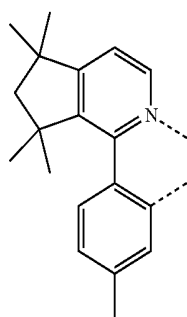
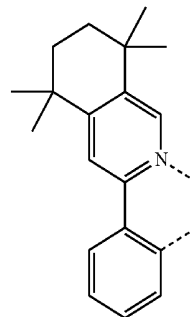
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L_{B305}L_{B302}L_{B306}L_{B303}L_{B307}L_{B304}L_{B308}

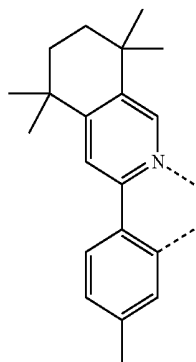
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L_{B309}

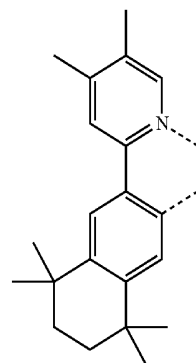
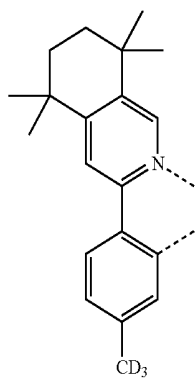
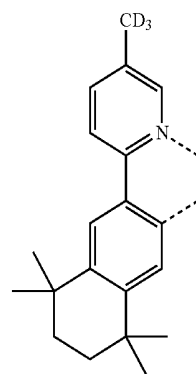
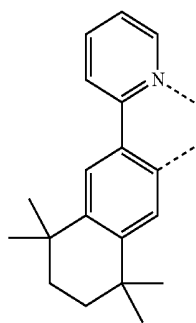
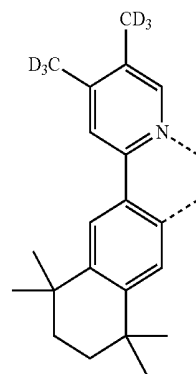
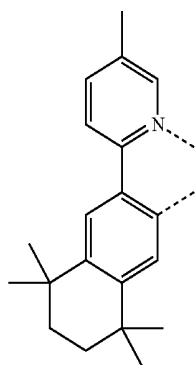
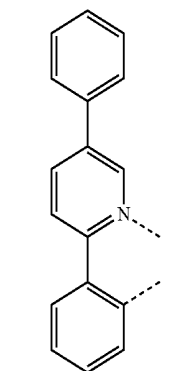
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L_{B313}L_{B310}L_{B314}L_{B311}L_{B315}L_{B312}L_{B316}

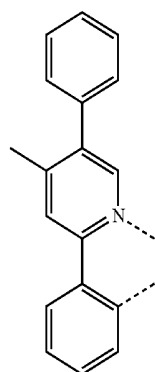
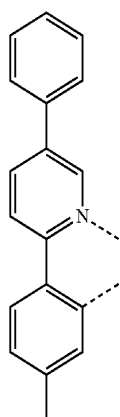
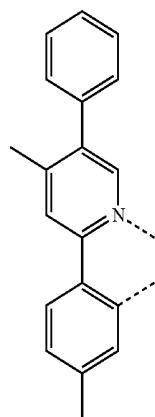
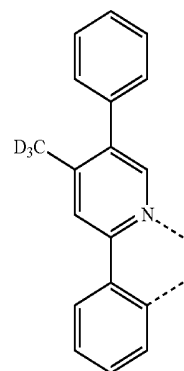
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L_{B317}

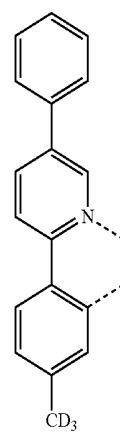
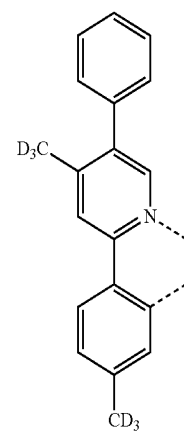
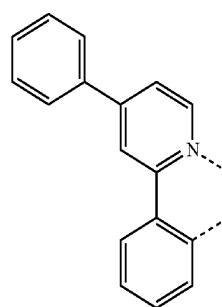
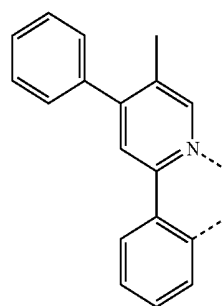
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L_{B321}L_{B318}L_{B322}L_{B319}L_{B323}L_{B320}L_{B324}

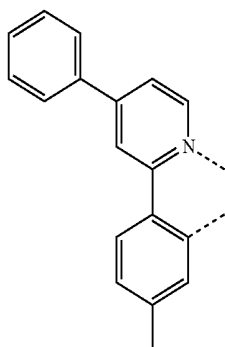
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L_{B325}L_{B326}L_{B327}L_{B328}

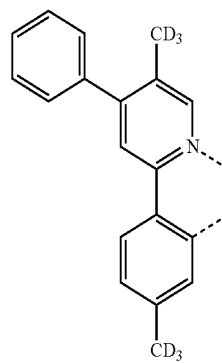
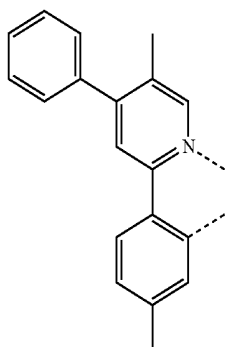
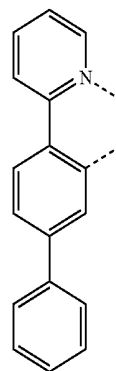
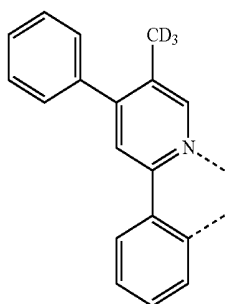
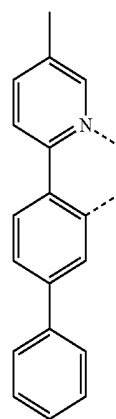
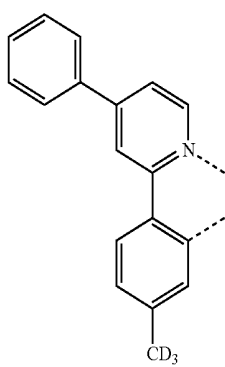
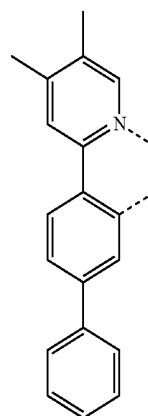
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L_{B329}L_{B330}L_{B331}L_{B332}

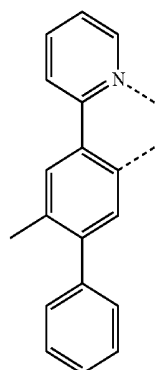
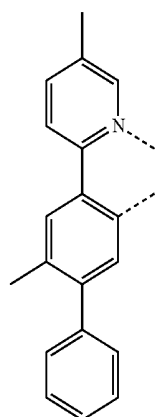
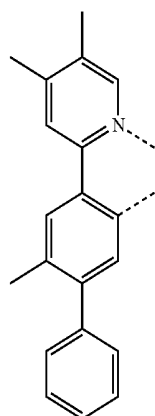
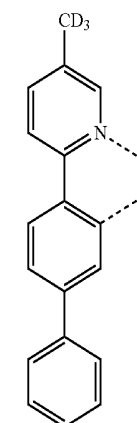
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L_{B333}

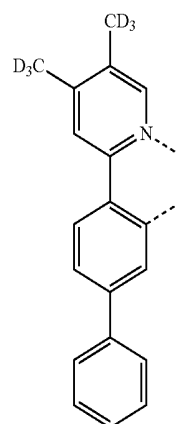
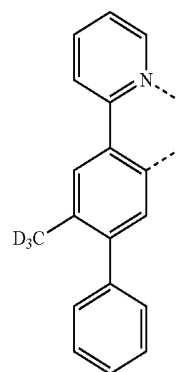
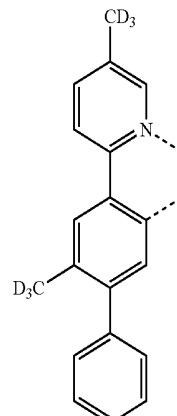
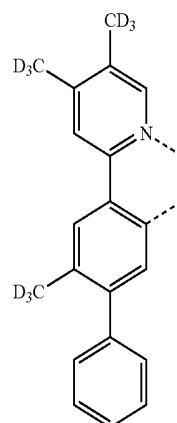
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L_{B337}L_{B334}L_{B338}L_{B335}L_{B339}L_{B336}L_{B340}

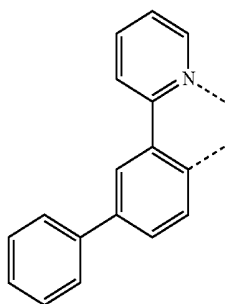
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L_{B341}L_{B342}L_{B343}L_{B344}

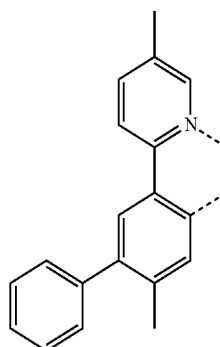
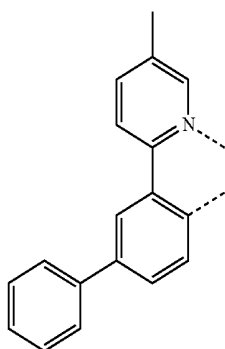
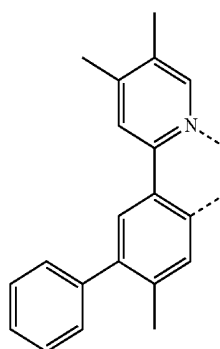
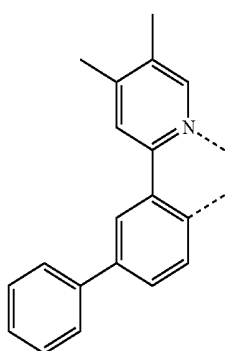
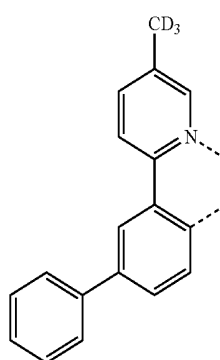
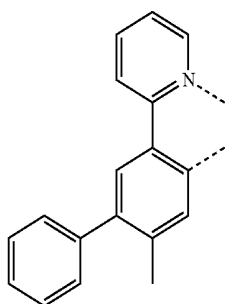
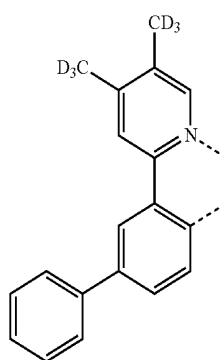
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L_{B345}L_{B346}L_{B347}L_{B348}

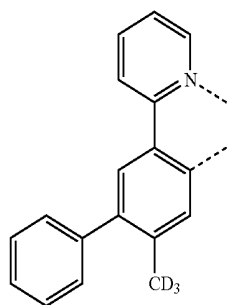
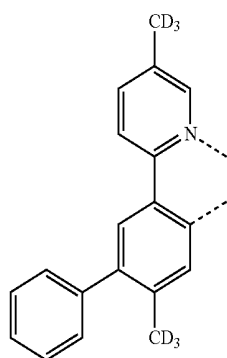
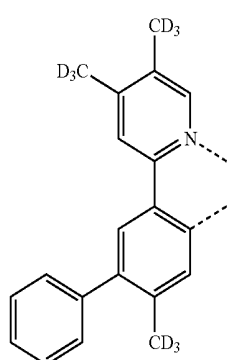
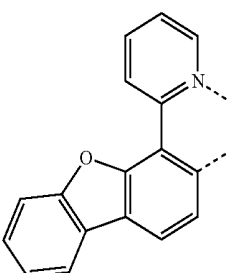
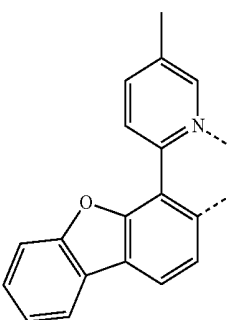
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L_{B349}

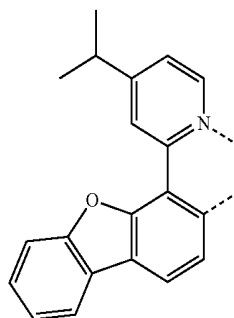
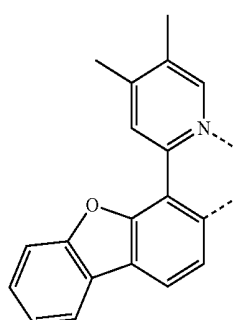
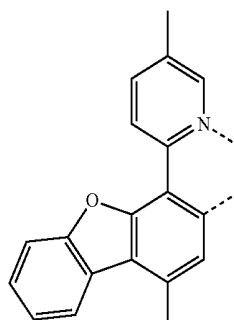
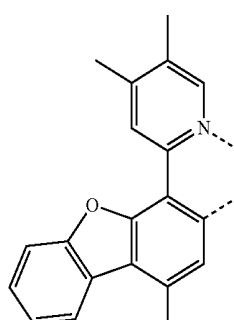
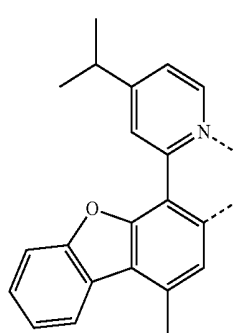
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L_{B353}L_{B350}L_{B354}L_{B351}L_{B355}L_{B352}L_{B356}

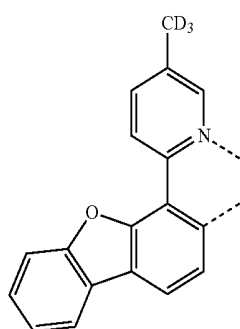
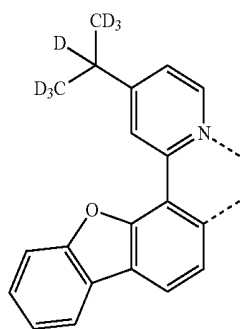
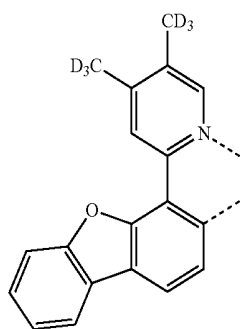
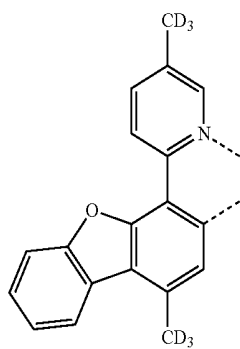
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L_{B357}L_{B358}L_{B359}L_{B360}L_{B361}

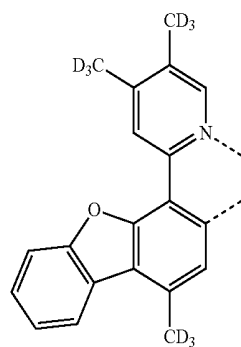
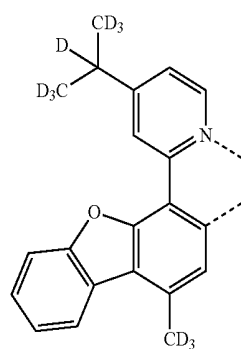
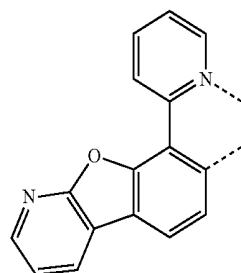
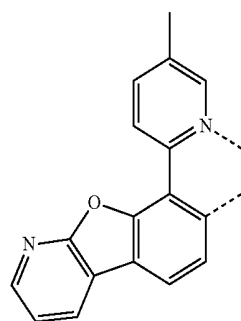
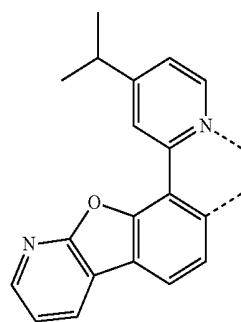
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L_{B362}L_{B363}L_{B364}L_{B365}L_{B366}

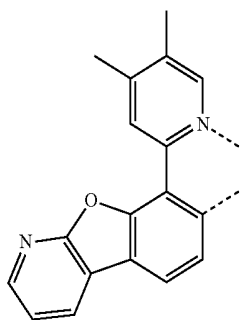
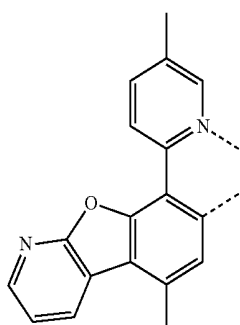
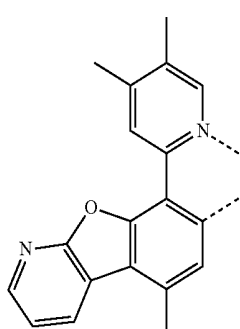
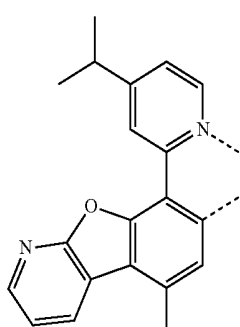
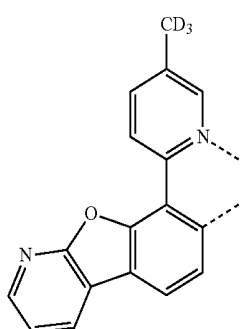
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L_{B367}L_{B368}L_{B369}L_{B370}

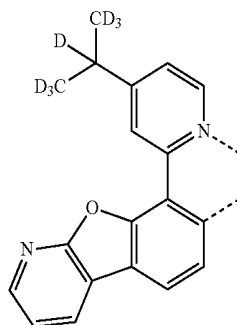
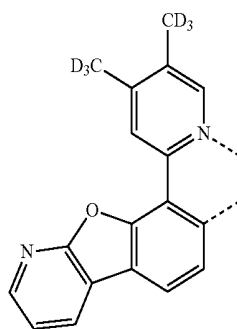
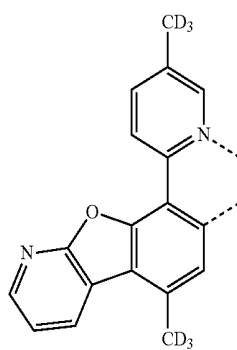
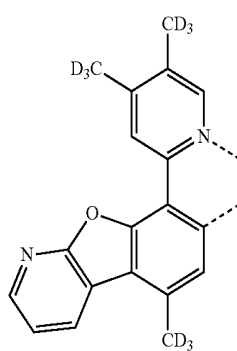
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L_{B371}L_{B372}L_{B373}L_{B374}L_{B375}

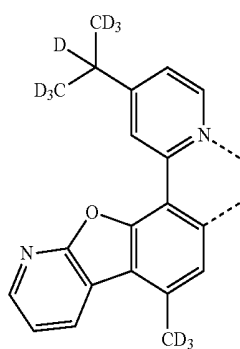
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L_{B376}L_{B377}L_{B378}L_{B379}L_{B380}

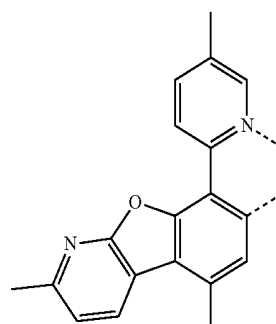
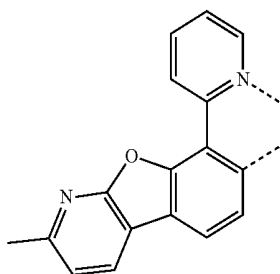
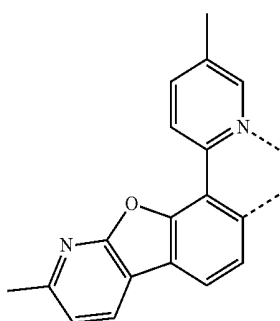
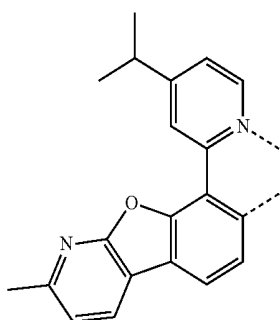
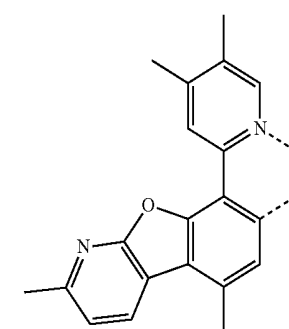
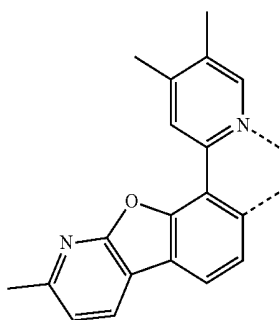
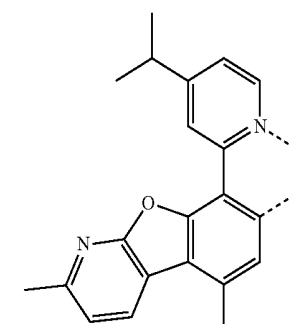
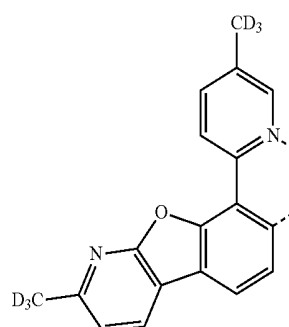
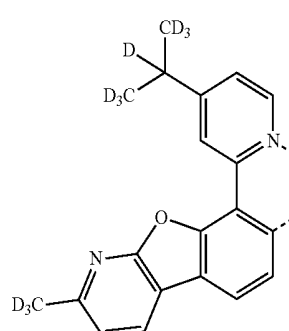
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L_{B381}L_{B382}L_{B383}L_{B384}

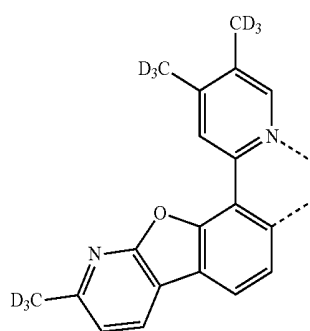
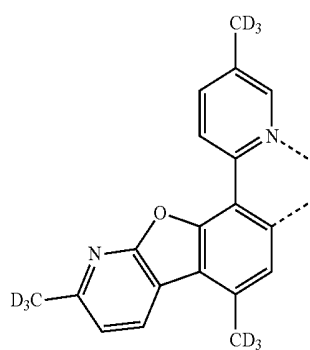
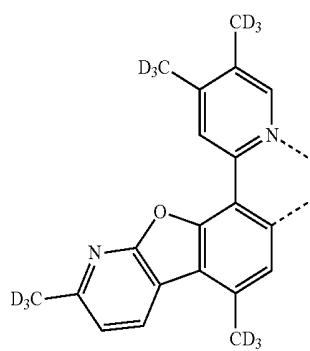
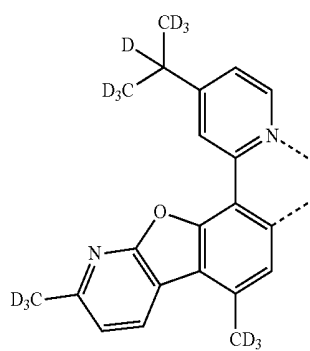
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L_{B385}

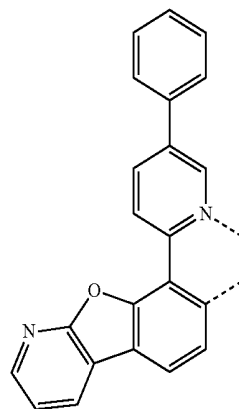
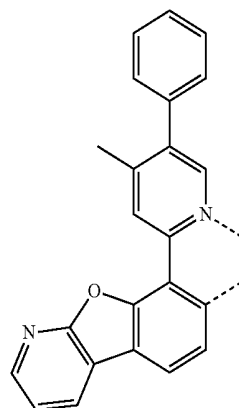
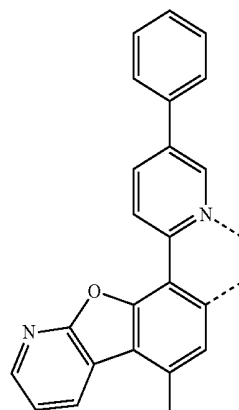
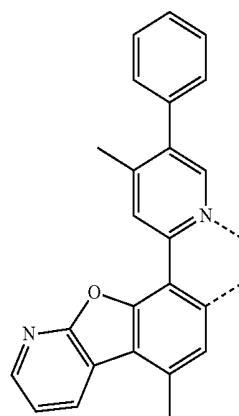
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L_{B390}L_{B386}L_{B387}L_{B388}L_{B389}L_{B391}L_{B392}L_{B393}L_{B394}

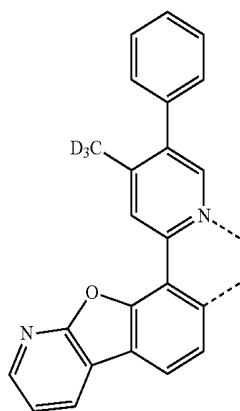
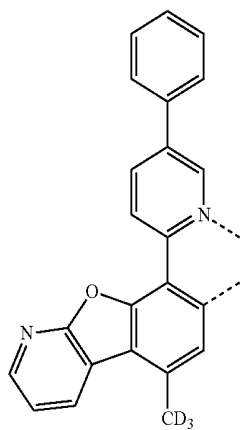
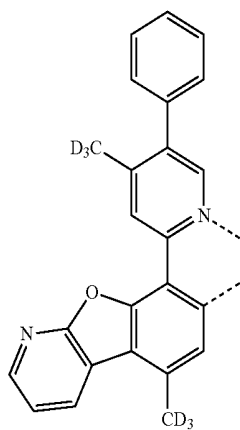
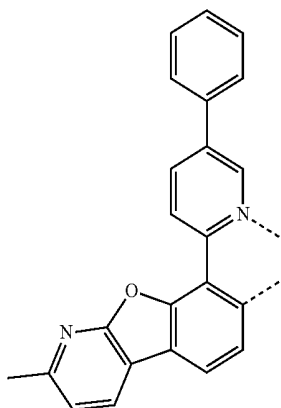
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L_{B395}L_{B396}L_{B397}L_{B398}

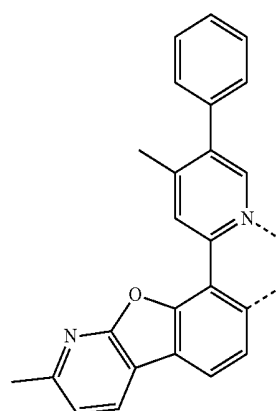
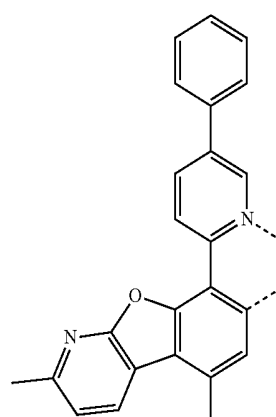
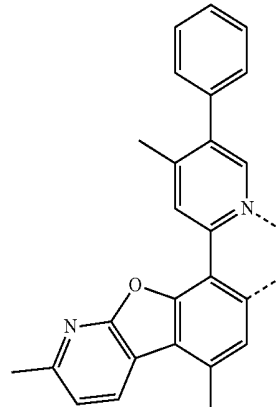
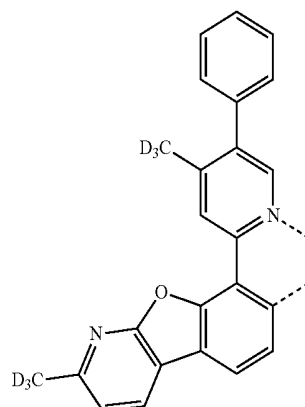
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L_{B399}L_{B400}L_{B401}L_{B402}

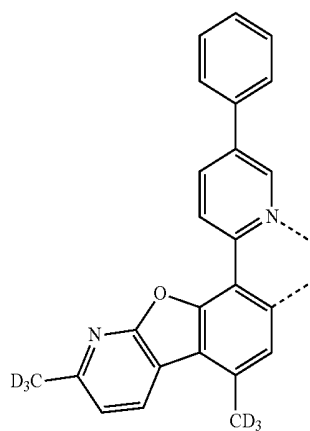
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L_{B403}L_{B404}L_{B405}L_{B406}

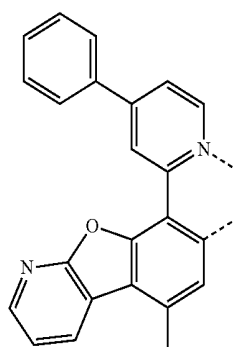
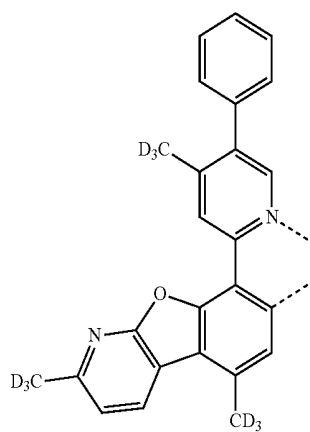
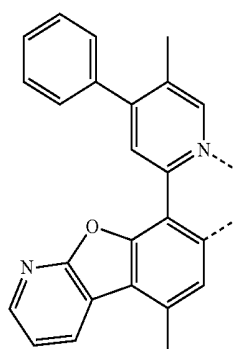
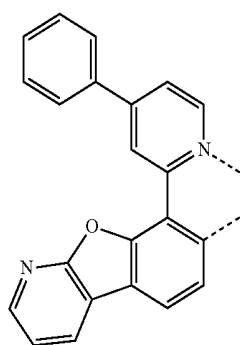
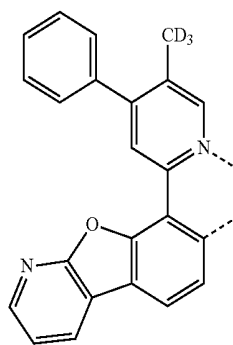
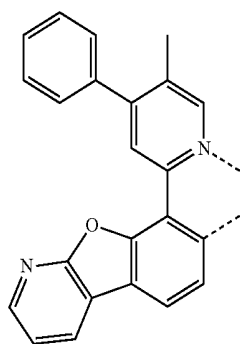
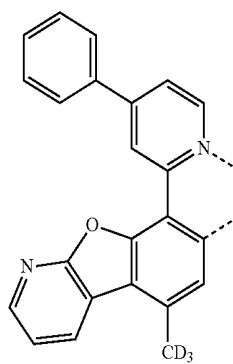
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L_{B407}L_{B408}L_{B409}L_{B410}

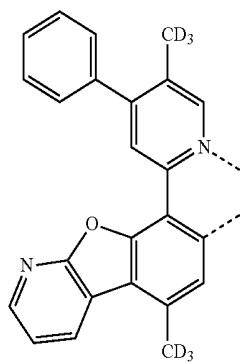
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L_{B411}

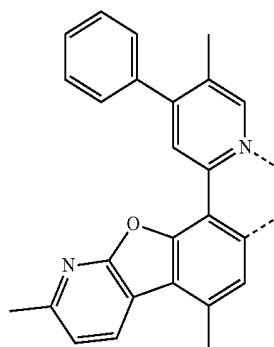
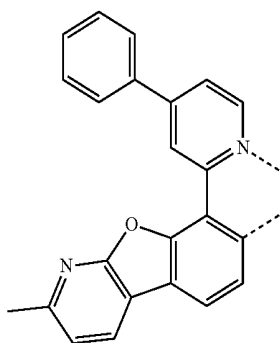
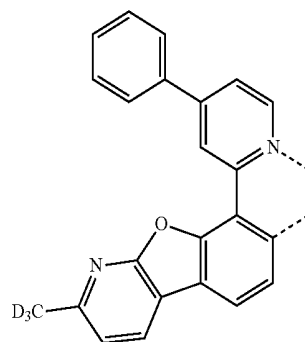
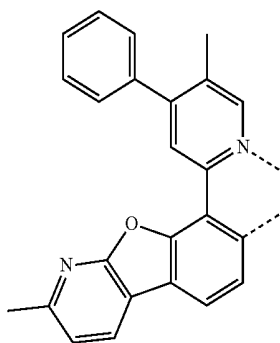
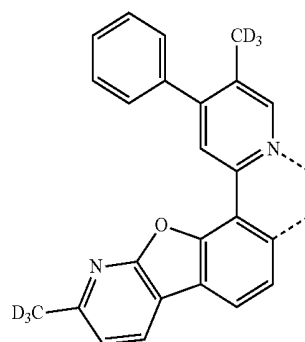
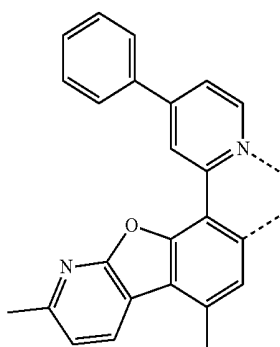
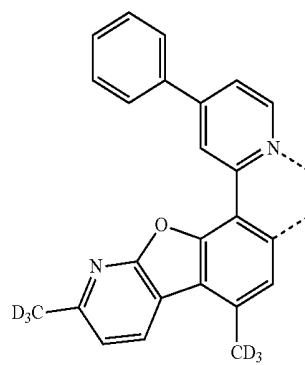
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L_{B415}L_{B412}L_{B416}L_{B413}L_{B417}L_{B414}L_{B418}

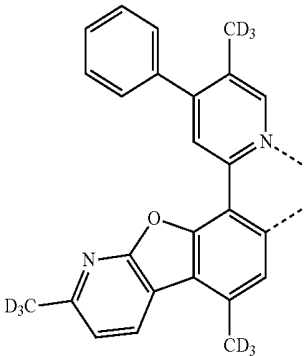
-continued

L_{B419}

-continued

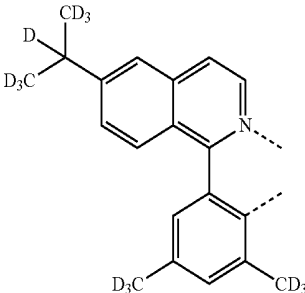
L_{B423}L_{B420}L_{B424}L_{B421}L_{B425}L_{B422}L_{B426}

-continued



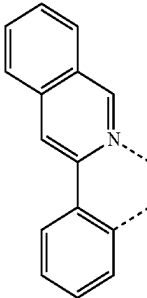
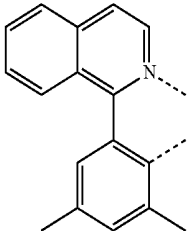
L_{B427}

-continued



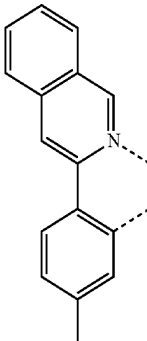
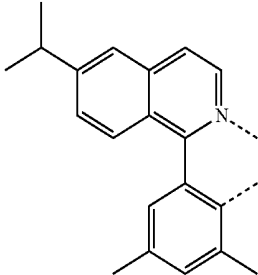
L_{B432}

L_{B428}



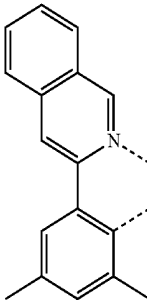
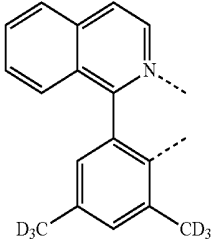
L_{B433}

L_{B429}



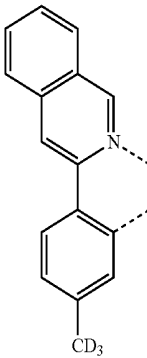
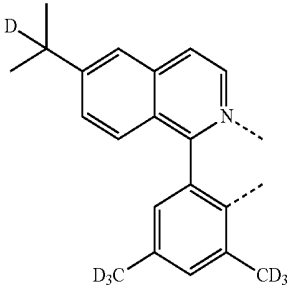
L_{B434}

L_{B430}



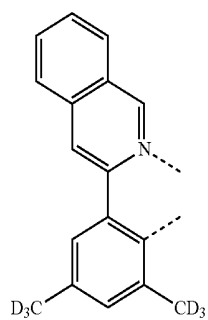
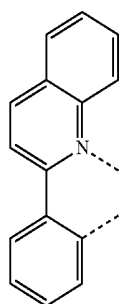
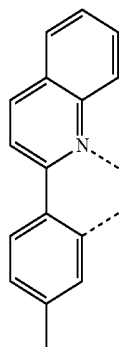
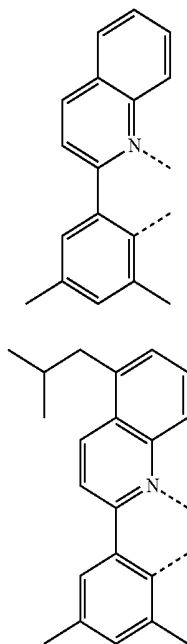
L_{B435}

L_{B431}

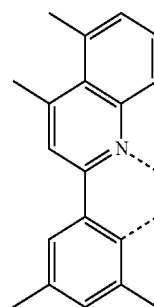
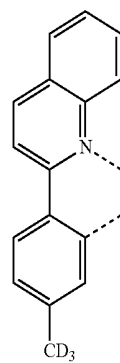
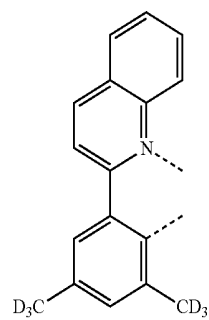
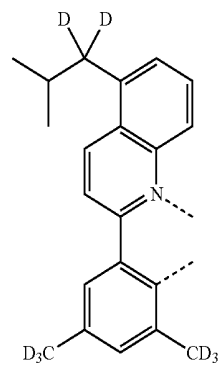


L_{B436}

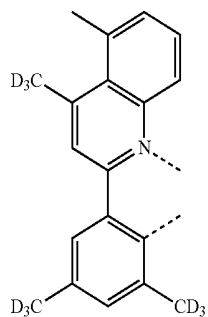
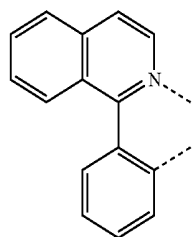
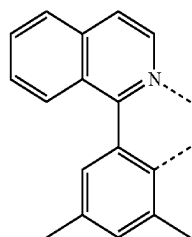
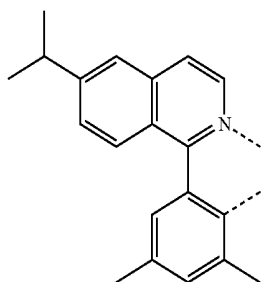
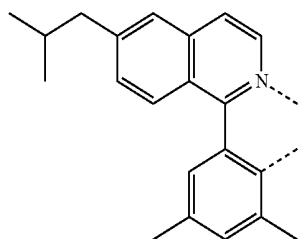
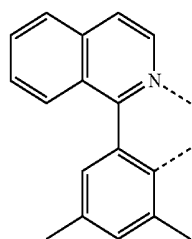
-continued

L_{B437}L_{B438}L_{B439}L_{B440}L_{B441}

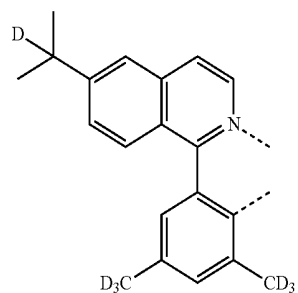
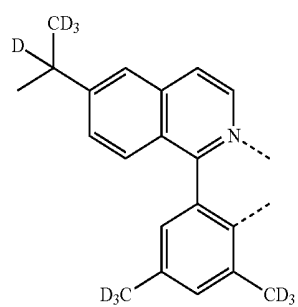
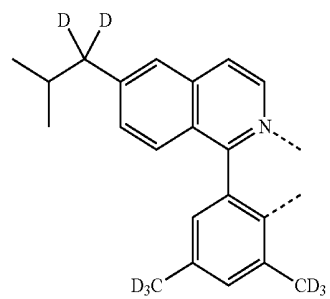
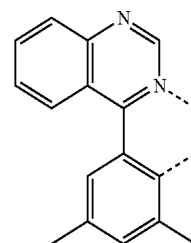
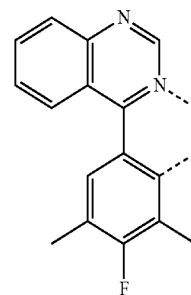
-continued

L_{B442}L_{B443}L_{B444}L_{B445}

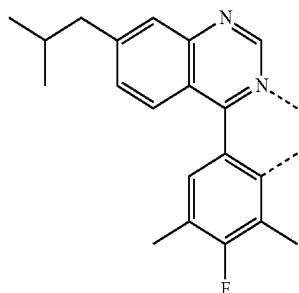
-continued

L_{B446}L_{B447}L_{B448}L_{B449}L_{B450}L_{B451}

-continued

L_{B452}L_{B453}L_{B454}L_{B455}L_{B456}

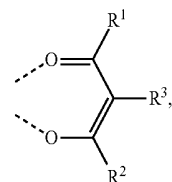
-continued



and

L_{B457}

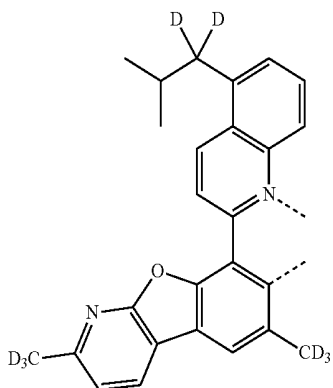
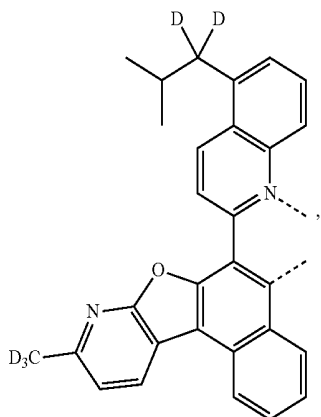
wherein L_{Cj} has the following structures based on a structure of Formula X,



in which R¹, R², and R³ are defined as:

L_{B458}

Ligand	R ¹	R ²	R ³
L _{C1}	R ^{D1}	R ^{D1}	H
L _{C2}	R ^{D2}	R ^{D2}	H
L _{C3}	R ^{D3}	R ^{D3}	H
L _{C4}	R ^{D4}	R ^{D4}	H
L _{C5}	R ^{D5}	R ^{D5}	H
L _{C6}	R ^{D6}	R ^{D6}	H
L _{C7}	R ^{D7}	R ^{D7}	H
L _{C8}	R ^{D8}	R ^{D8}	H
L _{C9}	R ^{D9}	R ^{D9}	H
L _{C10}	R ^{D10}	R ^{D10}	H
L _{C11}	R ^{D11}	R ^{D11}	H
L _{C12}	R ^{D12}	R ^{D12}	H
L _{C13}	R ^{D13}	R ^{D13}	H
L _{C14}	R ^{D14}	R ^{D14}	H
L _{C15}	R ^{D15}	R ^{D15}	H
L _{C16}	R ^{D16}	R ^{D16}	H
L _{C17}	R ^{D17}	R ^{D17}	H
L _{C18}	R ^{D18}	R ^{D18}	H
L _{C19}	R ^{D19}	R ^{D19}	H
L _{C20}	R ^{D20}	R ^{D20}	H
L _{C21}	R ^{D21}	R ^{D21}	H
L _{C22}	R ^{D22}	R ^{D22}	H
L _{C23}	R ^{D23}	R ^{D23}	H
L _{C24}	R ^{D24}	R ^{D24}	H
L _{C25}	R ^{D25}	R ^{D25}	H
L _{C26}	R ^{D26}	R ^{D26}	H
L _{C27}	R ^{D27}	R ^{D27}	H
L _{C28}	R ^{D28}	R ^{D28}	H
L _{C29}	R ^{D29}	R ^{D29}	H
L _{C30}	R ^{D30}	R ^{D30}	H
L _{C31}	R ^{D31}	R ^{D31}	H
L _{C32}	R ^{D32}	R ^{D32}	H
L _{C33}	R ^{D33}	R ^{D33}	H
L _{C34}	R ^{D34}	R ^{D34}	H
L _{C35}	R ^{D35}	R ^{D35}	H
L _{C36}	R ^{D40}	R ^{D40}	H
L _{C37}	R ^{D41}	R ^{D41}	H
L _{C38}	R ^{D42}	R ^{D42}	H
L _{C39}	R ^{D64}	R ^{D64}	H
L _{C40}	R ^{D66}	R ^{D66}	H
L _{C41}	R ^{D68}	R ^{D68}	H
L _{C42}	R ^{D76}	R ^{D76}	H
L _{C43}	R ^{D1}	R ^{D2}	H
L _{C44}	R ^{D1}	R ^{D3}	H
L _{C45}	R ^{D1}	R ^{D4}	H
L _{C46}	R ^{D1}	R ^{D5}	H
L _{C47}	R ^{D1}	R ^{D6}	H
L _{C48}	R ^{D1}	R ^{D7}	H
L _{C49}	R ^{D1}	R ^{D8}	H
L _{C50}	R ^{D1}	R ^{D9}	H
L _{C51}	R ^{D1}	R ^{D10}	H
L _{C52}	R ^{D1}	R ^{D11}	H
L _{C53}	R ^{D1}	R ^{D12}	H
L _{C54}	R ^{D1}	R ^{D13}	H
L _{C55}	R ^{D1}	R ^{D14}	H
L _{C56}	R ^{D1}	R ^{D15}	H
L _{C57}	R ^{D1}	R ^{D16}	H

L_{B459}L_{B460}

-continued

Ligand	R ¹	R ²	R ³
L _{C58}	R ^{D1}	R ^{D17}	H
L _{C59}	R ^{D1}	R ^{D18}	H
L _{C60}	R ^{D1}	R ^{D19}	H
L _{C61}	R ^{D1}	R ^{D20}	H
L _{C62}	R ^{D1}	R ^{D21}	H
L _{C63}	R ^{D1}	R ^{D22}	H
L _{C64}	R ^{D1}	R ^{D23}	H
L _{C65}	R ^{D1}	R ^{D24}	H
L _{C66}	R ^{D1}	R ^{D25}	H
L _{C67}	R ^{D1}	R ^{D26}	H
L _{C68}	R ^{D1}	R ^{D27}	H
L _{C69}	R ^{D1}	R ^{D28}	H
L _{C70}	R ^{D1}	R ^{D29}	H
L _{C71}	R ^{D1}	R ^{D30}	H
L _{C72}	R ^{D1}	R ^{D31}	H
L _{C73}	R ^{D1}	R ^{D32}	H
L _{C74}	R ^{D1}	R ^{D33}	H
L _{C75}	R ^{D1}	R ^{D34}	H
L _{C76}	R ^{D1}	R ^{D35}	H
L _{C77}	R ^{D1}	R ^{D40}	H
L _{C78}	R ^{D1}	R ^{D41}	H
L _{C79}	R ^{D1}	R ^{D42}	H
L _{C80}	R ^{D1}	R ^{D64}	H
L _{C81}	R ^{D1}	R ^{D66}	H
L _{C82}	R ^{D1}	R ^{D68}	H
L _{C83}	R ^{D1}	R ^{D76}	H
L _{C84}	R ^{D2}	R ^{D1}	H
L _{C85}	R ^{D2}	R ^{D3}	H
L _{C86}	R ^{D2}	R ^{D4}	H
L _{C87}	R ^{D2}	R ^{D5}	H
L _{C88}	R ^{D2}	R ^{D6}	H
L _{C89}	R ^{D2}	R ^{D7}	H
L _{C90}	R ^{D2}	R ^{D8}	H
L _{C91}	R ^{D2}	R ^{D9}	H
L _{C92}	R ^{D2}	R ^{D10}	H
L _{C93}	R ^{D2}	R ^{D11}	H
L _{C94}	R ^{D2}	R ^{D12}	H
L _{C95}	R ^{D2}	R ^{D13}	H
L _{C96}	R ^{D2}	R ^{D14}	H
L _{C97}	R ^{D2}	R ^{D15}	H
L _{C98}	R ^{D2}	R ^{D16}	H
L _{C99}	R ^{D2}	R ^{D17}	H
L _{C100}	R ^{D2}	R ^{D18}	H
L _{C101}	R ^{D2}	R ^{D19}	H
L _{C102}	R ^{D2}	R ^{D20}	H
L _{C103}	R ^{D2}	R ^{D21}	H
L _{C104}	R ^{D2}	R ^{D22}	H
L _{C105}	R ^{D2}	R ^{D23}	H
L _{C106}	R ^{D2}	R ^{D24}	H
L _{C107}	R ^{D2}	R ^{D25}	H
L _{C108}	R ^{D2}	R ^{D26}	H
L _{C109}	R ^{D2}	R ^{D27}	H
L _{C110}	R ^{D2}	R ^{D28}	H
L _{C111}	R ^{D2}	R ^{D29}	H
L _{C112}	R ^{D2}	R ^{D30}	H
L _{C113}	R ^{D2}	R ^{D31}	H
L _{C114}	R ^{D2}	R ^{D32}	H
L _{C115}	R ^{D2}	R ^{D33}	H
L _{C116}	R ^{D2}	R ^{D34}	H
L _{C117}	R ^{D2}	R ^{D35}	H
L _{C118}	R ^{D2}	R ^{D40}	H
L _{C119}	R ^{D2}	R ^{D41}	H
L _{C120}	R ^{D2}	R ^{D42}	H
L _{C121}	R ^{D2}	R ^{D64}	H
L _{C122}	R ^{D2}	R ^{D66}	H
L _{C123}	R ^{D2}	R ^{D68}	H
L _{C124}	R ^{D2}	R ^{D76}	H
L _{C125}	R ^{D3}	R ^{D4}	H
L _{C126}	R ^{D3}	R ^{D5}	H
L _{C127}	R ^{D3}	R ^{D6}	H
L _{C128}	R ^{D3}	R ^{D7}	H
L _{C129}	R ^{D3}	R ^{D8}	H
L _{C130}	R ^{D3}	R ^{D9}	H
L _{C131}	R ^{D3}	R ^{D10}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C132}	R ^{D3}	R ^{D11}	H
L _{C133}	R ^{D3}	R ^{D12}	H
L _{C134}	R ^{D3}	R ^{D13}	H
L _{C135}	R ^{D3}	R ^{D14}	H
L _{C136}	R ^{D3}	R ^{D15}	H
L _{C137}	R ^{D3}	R ^{D16}	H
L _{C138}	R ^{D3}	R ^{D17}	H
L _{C139}	R ^{D3}	R ^{D18}	H
L _{C140}	R ^{D3}	R ^{D19}	H
L _{C141}	R ^{D3}	R ^{D20}	H
L _{C142}	R ^{D3}	R ^{D21}	H
L _{C143}	R ^{D3}	R ^{D22}	H
L _{C144}	R ^{D3}	R ^{D23}	H
L _{C145}	R ^{D3}	R ^{D24}	H
L _{C146}	R ^{D3}	R ^{D25}	H
L _{C147}	R ^{D3}	R ^{D26}	H
L _{C148}	R ^{D3}	R ^{D27}	H
L _{C149}	R ^{D3}	R ^{D28}	H
L _{C150}	R ^{D3}	R ^{D29}	H
L _{C151}	R ^{D3}	R ^{D30}	H
L _{C152}	R ^{D3}	R ^{D31}	H
L _{C153}	R ^{D3}	R ^{D32}	H
L _{C154}	R ^{D3}	R ^{D33}	H
L _{C155}	R ^{D3}	R ^{D34}	H
L _{C156}	R ^{D3}	R ^{D35}	H
L _{C157}	R ^{D3}	R ^{D40}	H
L _{C158}	R ^{D3}	R ^{D41}	H
L _{C159}	R ^{D3}	R ^{D42}	H
L _{C160}	R ^{D3}	R ^{D64}	H
L _{C161}	R ^{D3}	R ^{D66}	H
L _{C162}	R ^{D3}	R ^{D68}	H
L _{C163}	R ^{D3}	R ^{D76}	H
L _{C164}	R ^{D4}	R ^{D5}	H
L _{C165}	R ^{D4}	R ^{D6}	H
L _{C166}	R ^{D4}	R ^{D7}	H
L _{C167}	R ^{D4}	R ^{D8}	H
L _{C168}	R ^{D4}	R ^{D9}	H
L _{C169}	R ^{D4}	R ^{D10}	H
L _{C170}	R ^{D4}	R ^{D11}	H
L _{C171}	R ^{D4}	R ^{D12}	H
L _{C172}	R ^{D4}	R ^{D13}	H
L _{C173}	R ^{D4}	R ^{D14}	H
L _{C174}	R ^{D4}	R ^{D15}	H
L _{C175}	R ^{D4}	R ^{D16}	H
L _{C176}	R ^{D4}	R ^{D17}	H
L _{C177}	R ^{D4}	R ^{D18}	H
L _{C178}	R ^{D4}	R ^{D19}	H
L _{C179}	R ^{D4}	R ^{D20}	H
L _{C180}	R ^{D4}	R ^{D21}	H
L _{C181}	R ^{D4}	R ^{D22}	H
L _{C182}	R ^{D4}	R ^{D23}	H
L _{C183}	R ^{D4}	R ^{D24}	H
L _{C184}	R ^{D4}	R ^{D25}	H
L _{C185}	R ^{D4}	R ^{D26}	H
L _{C186}	R ^{D4}	R ^{D27}	H
L _{C187}	R ^{D4}	R ^{D28}	H
L _{C188}	R ^{D4}	R ^{D29}	H
L _{C189}	R ^{D4}	R ^{D30}	H
L _{C190}	R ^{D4}	R ^{D31}	H
L _{C191}	R ^{D4}	R ^{D32}	H
L _{C192}	R ^{D4}	R ^{D33}	H
L _{C193}	R ^{D4}	R ^{D34}	H
L _{C194}	R ^{D4}	R ^{D35}	H
L _{C195}	R ^{D4}	R ^{D40}	H
L _{C196}	R ^{D4}	R ^{D41}	H
L _{C197}	R ^{D4}	R ^{D42}	H
L _{C198}	R ^{D4}	R ^{D64}	H
L _{C199}	R ^{D4}	R ^{D66}	H
L _{C200}	R ^{D4}	R ^{D68}	H
L _{C201}	R ^{D4}	R ^{D76}	H
L _{C202}	R ^{D7}	R ^{D1}	H
L _{C203}	R ^{D7}	R ^{D5}	H
L _{C204}	R ^{D7}	R ^{D6}	H
L _{C205}	R ^{D7}	R ^{D8}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C206}	R ^{D7}	R ^{D9}	H
L _{C207}	R ^{D7}	R ^{D10}	H
L _{C208}	R ^{D7}	R ^{D11}	H
L _{C209}	R ^{D7}	R ^{D12}	H
L _{C210}	R ^{D7}	R ^{D13}	H
L _{C211}	R ^{D7}	R ^{D14}	H
L _{C212}	R ^{D7}	R ^{D15}	H
L _{C213}	R ^{D7}	R ^{D16}	H
L _{C214}	R ^{D7}	R ^{D17}	H
L _{C215}	R ^{D7}	R ^{D18}	H
L _{C216}	R ^{D7}	R ^{D19}	H
L _{C217}	R ^{D7}	R ^{D20}	H
L _{C218}	R ^{D7}	R ^{D21}	H
L _{C219}	R ^{D7}	R ^{D22}	H
L _{C220}	R ^{D7}	R ^{D23}	H
L _{C221}	R ^{D7}	R ^{D24}	H
L _{C222}	R ^{D7}	R ^{D25}	H
L _{C223}	R ^{D7}	R ^{D26}	H
L _{C224}	R ^{D7}	R ^{D27}	H
L _{C225}	R ^{D7}	R ^{D28}	H
L _{C226}	R ^{D7}	R ^{D29}	H
L _{C227}	R ^{D7}	R ^{D30}	H
L _{C228}	R ^{D7}	R ^{D31}	H
L _{C229}	R ^{D7}	R ^{D32}	H
L _{C230}	R ^{D7}	R ^{D33}	H
L _{C231}	R ^{D7}	R ^{D34}	H
L _{C232}	R ^{D7}	R ^{D35}	H
L _{C233}	R ^{D7}	R ^{D40}	H
L _{C234}	R ^{D7}	R ^{D41}	H
L _{C235}	R ^{D7}	R ^{D42}	H
L _{C236}	R ^{D7}	R ^{D64}	H
L _{C237}	R ^{D7}	R ^{D66}	H
L _{C238}	R ^{D7}	R ^{D68}	H
L _{C239}	R ^{D7}	R ^{D76}	H
L _{C240}	R ^{D8}	R ^{D5}	H
L _{C241}	R ^{D8}	R ^{D6}	H
L _{C242}	R ^{D8}	R ^{D9}	H
L _{C243}	R ^{D8}	R ^{D10}	H
L _{C244}	R ^{D8}	R ^{D11}	H
L _{C245}	R ^{D8}	R ^{D12}	H
L _{C246}	R ^{D8}	R ^{D13}	H
L _{C247}	R ^{D8}	R ^{D14}	H
L _{C248}	R ^{D8}	R ^{D15}	H
L _{C249}	R ^{D8}	R ^{D16}	H
L _{C250}	R ^{D8}	R ^{D17}	H
L _{C251}	R ^{D8}	R ^{D18}	H
L _{C252}	R ^{D8}	R ^{D19}	H
L _{C253}	R ^{D8}	R ^{D20}	H
L _{C254}	R ^{D8}	R ^{D21}	H
L _{C255}	R ^{D8}	R ^{D22}	H
L _{C256}	R ^{D8}	R ^{D23}	H
L _{C257}	R ^{D8}	R ^{D24}	H
L _{C258}	R ^{D8}	R ^{D25}	H
L _{C259}	R ^{D8}	R ^{D26}	H
L _{C260}	R ^{D8}	R ^{D27}	H
L _{C261}	R ^{D8}	R ^{D28}	H
L _{C262}	R ^{D8}	R ^{D29}	H
L _{C263}	R ^{D8}	R ^{D30}	H
L _{C264}	R ^{D8}	R ^{D31}	H
L _{C265}	R ^{D8}	R ^{D32}	H
L _{C266}	R ^{D8}	R ^{D33}	H
L _{C267}	R ^{D8}	R ^{D34}	H
L _{C268}	R ^{D8}	R ^{D35}	H
L _{C269}	R ^{D8}	R ^{D40}	H
L _{C270}	R ^{D8}	R ^{D41}	H
L _{C271}	R ^{D8}	R ^{D42}	H
L _{C272}	R ^{D8}	R ^{D64}	H
L _{C273}	R ^{D8}	R ^{D66}	H
L _{C274}	R ^{D8}	R ^{D68}	H
L _{C275}	R ^{D8}	R ^{D76}	H
L _{C276}	R ^{D11}	R ^{D5}	H
L _{C277}	R ^{D11}	R ^{D6}	H
L _{C278}	R ^{D11}	R ^{D9}	H
L _{C279}	R ^{D11}	R ^{D10}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C280}	R ^{D11}	R ^{D12}	H
L _{C281}	R ^{D11}	R ^{D13}	H
L _{C282}	R ^{D11}	R ^{D14}	H
L _{C283}	R ^{D11}	R ^{D15}	H
L _{C284}	R ^{D11}	R ^{D16}	H
L _{C285}	R ^{D11}	R ^{D17}	H
L _{C286}	R ^{D11}	R ^{D18}	H
L _{C287}	R ^{D11}	R ^{D19}	H
L _{C288}	R ^{D11}	R ^{D20}	H
L _{C289}	R ^{D11}	R ^{D21}	H
L _{C290}	R ^{D11}	R ^{D22}	H
L _{C291}	R ^{D11}	R ^{D23}	H
L _{C292}	R ^{D11}	R ^{D24}	H
L _{C293}	R ^{D11}	R ^{D25}	H
L _{C294}	R ^{D11}	R ^{D26}	H
L _{C295}	R ^{D11}	R ^{D27}	H
L _{C296}	R ^{D11}	R ^{D28}	H
L _{C297}	R ^{D11}	R ^{D29}	H
L _{C298}	R ^{D11}	R ^{D30}	H
L _{C299}	R ^{D11}	R ^{D31}	H
L _{C300}	R ^{D11}	R ^{D32}	H
L _{C301}	R ^{D11}	R ^{D33}	H
L _{C302}	R ^{D11}	R ^{D34}	H
L _{C303}	R ^{D11}	R ^{D35}	H
L _{C304}	R ^{D11}	R ^{D40}	H
L _{C305}	R ^{D11}	R ^{D41}	H
L _{C306}	R ^{D11}	R ^{D42}	H
L _{C307}	R ^{D11}	R ^{D64}	H
L _{C308}	R ^{D11}	R ^{D66}	H
L _{C309}	R ^{D11}	R ^{D68}	H
L _{C310}	R ^{D11}	R ^{D76}	H
L _{C311}	R ^{D13}	R ^{D5}	H
L _{C312}	R ^{D13}	R ^{D6}	H
L _{C313}	R ^{D13}	R ^{D9}	H
L _{C314}	R ^{D13}	R ^{D10}	H
L _{C315}	R ^{D13}	R ^{D12}	H
L _{C316}	R ^{D13}	R ^{D14}	H
L _{C317}	R ^{D13}	R ^{D15}	H
L _{C318}	R ^{D13}	R ^{D16}	H
L _{C319}	R ^{D13}	R ^{D17}	H
L _{C320}	R ^{D13}	R ^{D18}	H
L _{C321}	R ^{D13}	R ^{D19}	H
L _{C322}	R ^{D13}	R ^{D20}	H
L _{C323}	R ^{D13}	R ^{D21}	H
L _{C324}	R ^{D13}	R ^{D22}	H
L _{C325}	R ^{D13}	R ^{D23}	H
L _{C326}	R ^{D13}	R ^{D24}	H
L _{C327}	R ^{D13}	R ^{D25}	H
L _{C328}	R ^{D13}	R ^{D26}	H
L _{C329}	R ^{D13}	R ^{D27}	H
L _{C330}	R ^{D13}	R ^{D28}	H
L _{C331}	R ^{D13}	R ^{D29}	H
L _{C332}	R ^{D13}	R ^{D30}	H
L _{C333}	R ^{D13}	R ^{D31}	H
L _{C334}	R ^{D13}	R ^{D32}	H
L _{C335}	R ^{D13}	R ^{D33}	H
L _{C336}	R ^{D13}	R ^{D34}	H
L _{C337}	R ^{D13}	R ^{D35}	H
L _{C338}	R ^{D13}	R ^{D40}	H
L _{C339}	R ^{D13}	R ^{D41}	H
L _{C340}	R ^{D13}	R ^{D42}	H
L _{C341}	R ^{D13}	R ^{D64}	H
L _{C342}	R ^{D13}	R ^{D66}	H
L _{C343}	R ^{D13}	R ^{D68}	H
L _{C344}	R ^{D13}	R ^{D76}	H
L _{C345}	R ^{D14}	R ^{D5}	H
L _{C346}	R ^{D14}	R ^{D6}	H
L _{C347}	R ^{D14}	R ^{D9}	H
L _{C348}	R ^{D14}	R ^{D10}	H
L _{C349}	R ^{D14}	R ^{D12}	H
L _{C350}	R ^{D14}	R ^{D15}	H
L _{C351}	R ^{D14}	R ^{D16}	H
L _{C352}	R ^{D14}	R ^{D17}	H
L _{C353}	R ^{D14}	R ^{D18}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C354}	R ^{D14}	R ^{D19}	H
L _{C355}	R ^{D14}	R ^{D20}	H
L _{C356}	R ^{D14}	R ^{D21}	H
L _{C357}	R ^{D14}	R ^{D22}	H
L _{C358}	R ^{D14}	R ^{D23}	H
L _{C359}	R ^{D14}	R ^{D24}	H
L _{C360}	R ^{D14}	R ^{D25}	H
L _{C361}	R ^{D14}	R ^{D26}	H
L _{C362}	R ^{D14}	R ^{D27}	H
L _{C363}	R ^{D14}	R ^{D28}	H
L _{C364}	R ^{D14}	R ^{D29}	H
L _{C365}	R ^{D14}	R ^{D30}	H
L _{C366}	R ^{D14}	R ^{D31}	H
L _{C367}	R ^{D14}	R ^{D32}	H
L _{C368}	R ^{D14}	R ^{D33}	H
L _{C369}	R ^{D14}	R ^{D34}	H
L _{C370}	R ^{D14}	R ^{D35}	H
L _{C371}	R ^{D14}	R ^{D40}	H
L _{C372}	R ^{D14}	R ^{D41}	H
L _{C373}	R ^{D14}	R ^{D42}	H
L _{C374}	R ^{D14}	R ^{D64}	H
L _{C375}	R ^{D14}	R ^{D66}	H
L _{C376}	R ^{D14}	R ^{D68}	H
L _{C377}	R ^{D14}	R ^{D76}	H
L _{C378}	R ^{D22}	R ^{D5}	H
L _{C379}	R ^{D22}	R ^{D6}	H
L _{C380}	R ^{D22}	R ^{D9}	H
L _{C381}	R ^{D22}	R ^{D10}	H
L _{C382}	R ^{D22}	R ^{D12}	H
L _{C383}	R ^{D22}	R ^{D15}	H
L _{C384}	R ^{D22}	R ^{D16}	H
L _{C385}	R ^{D22}	R ^{D17}	H
L _{C386}	R ^{D22}	R ^{D18}	H
L _{C387}	R ^{D22}	R ^{D19}	H
L _{C388}	R ^{D22}	R ^{D20}	H
L _{C389}	R ^{D22}	R ^{D21}	H
L _{C390}	R ^{D22}	R ^{D23}	H
L _{C391}	R ^{D22}	R ^{D24}	H
L _{C392}	R ^{D22}	R ^{D25}	H
L _{C393}	R ^{D22}	R ^{D26}	H
L _{C394}	R ^{D22}	R ^{D27}	H
L _{C395}	R ^{D22}	R ^{D28}	H
L _{C396}	R ^{D22}	R ^{D29}	H
L _{C397}	R ^{D22}	R ^{D30}	H
L _{C398}	R ^{D22}	R ^{D31}	H
L _{C399}	R ^{D22}	R ^{D32}	H
L _{C400}	R ^{D22}	R ^{D33}	H
L _{C401}	R ^{D22}	R ^{D34}	H
L _{C402}	R ^{D22}	R ^{D35}	H
L _{C403}	R ^{D22}	R ^{D40}	H
L _{C404}	R ^{D22}	R ^{D41}	H
L _{C405}	R ^{D22}	R ^{D42}	H
L _{C406}	R ^{D22}	R ^{D64}	H
L _{C407}	R ^{D22}	R ^{D66}	H
L _{C408}	R ^{D22}	R ^{D68}	H
L _{C409}	R ^{D22}	R ^{D76}	H
L _{C410}	R ^{D26}	R ^{D5}	H
L _{C411}	R ^{D26}	R ^{D6}	H
L _{C412}	R ^{D26}	R ^{D9}	H
L _{C413}	R ^{D26}	R ^{D10}	H
L _{C414}	R ^{D26}	R ^{D12}	H
L _{C415}	R ^{D26}	R ^{D15}	H
L _{C416}	R ^{D26}	R ^{D16}	H
L _{C417}	R ^{D26}	R ^{D17}	H
L _{C418}	R ^{D26}	R ^{D18}	H
L _{C419}	R ^{D26}	R ^{D19}	H
L _{C420}	R ^{D26}	R ^{D20}	H
L _{C421}	R ^{D26}	R ^{D21}	H
L _{C422}	R ^{D26}	R ^{D23}	H
L _{C423}	R ^{D26}	R ^{D24}	H
L _{C424}	R ^{D26}	R ^{D25}	H
L _{C425}	R ^{D26}	R ^{D27}	H
L _{C426}	R ^{D26}	R ^{D28}	H
L _{C427}	R ^{D26}	R ^{D29}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C428}	R ^{D26}	R ^{D30}	H
L _{C429}	R ^{D26}	R ^{D31}	H
L _{C430}	R ^{D26}	R ^{D32}	H
L _{C431}	R ^{D26}	R ^{D33}	H
L _{C432}	R ^{D26}	R ^{D34}	H
L _{C433}	R ^{D26}	R ^{D35}	H
L _{C434}	R ^{D26}	R ^{D40}	H
L _{C435}	R ^{D26}	R ^{D41}	H
L _{C436}	R ^{D26}	R ^{D42}	H
L _{C437}	R ^{D26}	R ^{D64}	H
L _{C438}	R ^{D26}	R ^{D66}	H
L _{C439}	R ^{D26}	R ^{D68}	H
L _{C440}	R ^{D26}	R ^{D76}	H
L _{C441}	R ^{D35}	R ^{D5}	H
L _{C442}	R ^{D35}	R ^{D6}	H
L _{C443}	R ^{D35}	R ^{D9}	H
L _{C444}	R ^{D35}	R ^{D10}	H
L _{C445}	R ^{D35}	R ^{D12}	H
L _{C446}	R ^{D35}	R ^{D15}	H
L _{C447}	R ^{D35}	R ^{D16}	H
L _{C448}	R ^{D35}	R ^{D17}	H
L _{C449}	R ^{D35}	R ^{D18}	H
L _{C450}	R ^{D35}	R ^{D19}	H
L _{C451}	R ^{D35}	R ^{D20}	H
L _{C452}	R ^{D35}	R ^{D21}	H
L _{C453}	R ^{D35}	R ^{D23}	H
L _{C454}	R ^{D35}	R ^{D24}	H
L _{C455}	R ^{D35}	R ^{D25}	H
L _{C456}	R ^{D35}	R ^{D27}	H
L _{C457}	R ^{D35}	R ^{D28}	H
L _{C458}	R ^{D35}	R ^{D29}	H
L _{C459}	R ^{D35}	R ^{D30}	H
L _{C460}	R ^{D35}	R ^{D31}	H
L _{C461}	R ^{D35}	R ^{D32}	H
L _{C462}	R ^{D35}	R ^{D33}	H
L _{C463}	R ^{D35}	R ^{D34}	H
L _{C464}	R ^{D35}	R ^{D40}	H
L _{C465}	R ^{D35}	R ^{D41}	H
L _{C466}	R ^{D35}	R ^{D42}	H
L _{C467}	R ^{D35}	R ^{D64}	H
L _{C468}	R ^{D35}	R ^{D66}	H
L _{C469}	R ^{D35}	R ^{D68}	H
L _{C470}	R ^{D35}	R ^{D76}	H
L _{C471}	R ^{D40}	R ^{D5}	H
L _{C472}	R ^{D40}	R ^{D6}	H
L _{C473}	R ^{D40}	R ^{D9}	H
L _{C474}	R ^{D40}	R ^{D10}	H
L _{C475}	R ^{D40}	R ^{D12}	H
L _{C476}	R ^{D40}	R ^{D15}	H
L _{C477}	R ^{D40}	R ^{D16}	H
L _{C478}	R ^{D40}	R ^{D17}	H
L _{C479}	R ^{D40}	R ^{D18}	H
L _{C480}	R ^{D40}	R ^{D19}	H
L _{C481}	R ^{D40}	R ^{D20}	H
L _{C482}	R ^{D40}	R ^{D21}	H
L _{C483}	R ^{D40}	R ^{D23}	H
L _{C484}	R ^{D40}	R ^{D24}	H
L _{C485}	R ^{D40}	R ^{D25}	H
L _{C486}	R ^{D40}	R ^{D27}	H
L _{C487}	R ^{D40}	R ^{D28}	H
L _{C488}	R ^{D40}	R ^{D29}	H
L _{C489}	R ^{D40}	R ^{D30}	H
L _{C490}	R ^{D40}	R ^{D31}	H
L _{C491}	R ^{D40}	R ^{D32}	H
L _{C492}	R ^{D40}	R ^{D33}	H
L _{C493}	R ^{D40}	R ^{D34}	H
L _{C494}	R ^{D40}	R ^{D41}	H
L _{C495}	R ^{D40}	R ^{D42}	H
L _{C496}	R ^{D40}	R ^{D64}	H
L _{C497}	R ^{D40}	R ^{D66}	H
L _{C498}	R ^{D40}	R ^{D68}	H
L _{C499}	R ^{D40}	R ^{D76}	H
L _{C500}	R ^{D41}	R ^{D5}	H
L _{C501}	R ^{D41}	R ^{D6}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C502}	R ^{D41}	R ^{D9}	H
L _{C503}	R ^{D41}	R ^{D10}	H
L _{C504}	R ^{D41}	R ^{D12}	H
L _{C505}	R ^{D41}	R ^{D15}	H
L _{C506}	R ^{D41}	R ^{D16}	H
L _{C507}	R ^{D41}	R ^{D17}	H
L _{C508}	R ^{D41}	R ^{D18}	H
L _{C509}	R ^{D41}	R ^{D19}	H
L _{C510}	R ^{D41}	R ^{D20}	H
L _{C511}	R ^{D41}	R ^{D21}	H
L _{C512}	R ^{D41}	R ^{D23}	H
L _{C513}	R ^{D41}	R ^{D24}	H
L _{C514}	R ^{D41}	R ^{D25}	H
L _{C515}	R ^{D41}	R ^{D27}	H
L _{C516}	R ^{D41}	R ^{D28}	H
L _{C517}	R ^{D41}	R ^{D29}	H
L _{C518}	R ^{D41}	R ^{D30}	H
L _{C519}	R ^{D41}	R ^{D31}	H
L _{C520}	R ^{D41}	R ^{D32}	H
L _{C521}	R ^{D41}	R ^{D33}	H
L _{C522}	R ^{D41}	R ^{D34}	H
L _{C523}	R ^{D41}	R ^{D42}	H
L _{C524}	R ^{D41}	R ^{D64}	H
L _{C525}	R ^{D41}	R ^{D66}	H
L _{C526}	R ^{D41}	R ^{D68}	H
L _{C527}	R ^{D41}	R ^{D76}	H
L _{C528}	R ^{D64}	R ^{D5}	H
L _{C529}	R ^{D64}	R ^{D6}	H
L _{C530}	R ^{D64}	R ^{D9}	H
L _{C531}	R ^{D64}	R ^{D10}	H
L _{C532}	R ^{D64}	R ^{D12}	H
L _{C533}	R ^{D64}	R ^{D15}	H
L _{C534}	R ^{D64}	R ^{D16}	H
L _{C535}	R ^{D64}	R ^{D17}	H
L _{C536}	R ^{D64}	R ^{D18}	H
L _{C537}	R ^{D64}	R ^{D19}	H
L _{C538}	R ^{D64}	R ^{D20}	H
L _{C539}	R ^{D64}	R ^{D21}	H
L _{C540}	R ^{D64}	R ^{D23}	H
L _{C541}	R ^{D64}	R ^{D24}	H
L _{C542}	R ^{D64}	R ^{D25}	H
L _{C543}	R ^{D64}	R ^{D27}	H
L _{C544}	R ^{D64}	R ^{D28}	H
L _{C545}	R ^{D64}	R ^{D29}	H
L _{C546}	R ^{D64}	R ^{D30}	H
L _{C547}	R ^{D64}	R ^{D31}	H
L _{C548}	R ^{D64}	R ^{D32}	H
L _{C549}	R ^{D64}	R ^{D33}	H
L _{C550}	R ^{D64}	R ^{D34}	H
L _{C551}	R ^{D64}	R ^{D42}	H
L _{C552}	R ^{D64}	R ^{D64}	H
L _{C553}	R ^{D64}	R ^{D66}	H
L _{C554}	R ^{D64}	R ^{D68}	H
L _{C555}	R ^{D64}	R ^{D76}	H
L _{C556}	R ^{D66}	R ^{D5}	H
L _{C557}	R ^{D66}	R ^{D6}	H
L _{C558}	R ^{D66}	R ^{D9}	H
L _{C559}	R ^{D66}	R ^{D10}	H
L _{C560}	R ^{D66}	R ^{D12}	H
L _{C561}	R ^{D66}	R ^{D15}	H
L _{C562}	R ^{D66}	R ^{D16}	H
L _{C563}	R ^{D66}	R ^{D17}	H
L _{C564}	R ^{D66}	R ^{D18}	H
L _{C565}	R ^{D66}	R ^{D19}	H
L _{C566}	R ^{D66}	R ^{D20}	H
L _{C567}	R ^{D66}	R ^{D21}	H
L _{C568}	R ^{D66}	R ^{D23}	H
L _{C569}	R ^{D66}	R ^{D24}	H
L _{C570}	R ^{D66}	R ^{D25}	H
L _{C571}	R ^{D66}	R ^{D27}	H
L _{C572}	R ^{D66}	R ^{D28}	H
L _{C573}	R ^{D66}	R ^{D29}	H
L _{C574}	R ^{D66}	R ^{D30}	H
L _{C575}	R ^{D66}	R ^{D31}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C576}	R ^{D66}	R ^{D32}	H
L _{C577}	R ^{D66}	R ^{D33}	H
L _{C578}	R ^{D66}	R ^{D34}	H
L _{C579}	R ^{D66}	R ^{D42}	H
L _{C580}	R ^{D66}	R ^{D68}	H
L _{C581}	R ^{D66}	R ^{D76}	H
L _{C582}	R ^{D68}	R ^{D5}	H
L _{C583}	R ^{D68}	R ^{D6}	H
L _{C584}	R ^{D68}	R ^{D9}	H
L _{C585}	R ^{D68}	R ^{D10}	H
L _{C586}	R ^{D68}	R ^{D12}	H
L _{C587}	R ^{D68}	R ^{D15}	H
L _{C588}	R ^{D68}	R ^{D16}	H
L _{C589}	R ^{D68}	R ^{D17}	H
L _{C590}	R ^{D68}	R ^{D18}	H
L _{C591}	R ^{D68}	R ^{D19}	H
L _{C592}	R ^{D68}	R ^{D20}	H
L _{C593}	R ^{D68}	R ^{D21}	H
L _{C594}	R ^{D68}	R ^{D23}	H
L _{C595}	R ^{D68}	R ^{D24}	H
L _{C596}	R ^{D68}	R ^{D25}	H
L _{C597}	R ^{D68}	R ^{D27}	H
L _{C598}	R ^{D68}	R ^{D28}	H
L _{C599}	R ^{D68}	R ^{D29}	H
L _{C600}	R ^{D68}	R ^{D30}	H
L _{C601}	R ^{D68}	R ^{D31}	H
L _{C602}	R ^{D68}	R ^{D32}	H
L _{C603}	R ^{D68}	R ^{D33}	H
L _{C604}	R ^{D68}	R ^{D34}	H
L _{C605}	R ^{D68}	R ^{D42}	H
L _{C606}	R ^{D68}	R ^{D76}	H
L _{C607}	R ^{D76}	R ^{D5}	H
L _{C608}	R ^{D76}	R ^{D6}	H
L _{C609}	R ^{D76}	R ^{D9}	H
L _{C610}	R ^{D76}	R ^{D10}	H
L _{C611}	R ^{D76}	R ^{D12}	H
L _{C612}	R ^{D76}	R ^{D15}	H
L _{C613}	R ^{D76}	R ^{D16}	H
L _{C614}	R ^{D76}	R ^{D17}	H
L _{C615}	R ^{D76}	R ^{D18}	H
L _{C616}	R ^{D76}	R ^{D19}	H
L _{C617}	R ^{D76}	R ^{D20}	H
L _{C618}	R ^{D76}	R ^{D21}	H
L _{C619}	R ^{D76}	R ^{D23}	H
L _{C620}	R ^{D76}	R ^{D24}	H
L _{C621}	R ^{D76}	R ^{D25}	H
L _{C622}	R ^{D76}	R ^{D27}	H
L _{C623}	R ^{D76}	R ^{D28}	H
L _{C624}	R ^{D76}	R ^{D29}	H
L _{C625}	R ^{D76}	R ^{D30}	H
L _{C626}	R ^{D76}	R ^{D31}	H
L _{C627}	R ^{D76}	R ^{D32}	H
L _{C628}	R ^{D76}	R ^{D33}	H
L _{C629}	R ^{D76}	R ^{D34}	H
L _{C630}	R ^{D76}	R ^{D42}	H
L _{C631}	R ^{D1}	R ^{D1}	R ^{D1}
L _{C632}	R ^{D2}	R ^{D2}	R ^{D1}
L _{C633}	R ^{D3}	R ^{D3}	R ^{D1}
L _{C634}	R ^{D4}	R ^{D4}	R ^{D1}
L _{C635}	R ^{D5}	R ^{D5}	R ^{D1}
L _{C636}	R ^{D6}	R ^{D6}	R ^{D1}
L _{C637}	R ^{D7}	R ^{D7}	R ^{D1}
L _{C638}	R ^{D8}	R ^{D8}	R ^{D1}
L _{C639}	R ^{D9}	R ^{D9}	R ^{D1}
L _{C640}	R ^{D10}	R ^{D10}	R ^{D1}
L _{C641}	R ^{D11}	R ^{D11}	R ^{D1}
L _{C642}	R ^{D12}	R ^{D12}	R ^{D1}
L _{C643}	R ^{D13}	R ^{D13}	R ^{D1}
L _{C644}	R ^{D14}	R ^{D14}	R ^{D1}
L _{C645}	R ^{D15}	R ^{D15}	R ^{D1}
L _{C646}	R ^{D16}	R ^{D16}	R ^{D1}
L _{C647}	R ^{D17}	R ^{D17}	R ^{D1}
L _{C648}	R ^{D18}	R ^{D18}	R ^{D1}
L _{C649}	R ^{D19}	R ^{D19}	R ^{D1}

-continued

Ligand	R ¹	R ²	R ³
L _{C650}	R ^{D20}	R ^{D20}	R ^{D1}
L _{C651}	R ^{D21}	R ^{D21}	R ^{D1}
L _{C652}	R ^{D22}	R ^{D22}	R ^{D1}
L _{C653}	R ^{D23}	R ^{D23}	R ^{D1}
L _{C654}	R ^{D24}	R ^{D24}	R ^{D1}
L _{C655}	R ^{D25}	R ^{D25}	R ^{D1}
L _{C656}	R ^{D26}	R ^{D26}	R ^{D1}
L _{C657}	R ^{D27}	R ^{D27}	R ^{D1}
L _{C658}	R ^{D28}	R ^{D28}	R ^{D1}
L _{C659}	R ^{D29}	R ^{D29}	R ^{D1}
L _{C660}	R ^{D30}	R ^{D30}	R ^{D1}
L _{C661}	R ^{D31}	R ^{D31}	R ^{D1}
L _{C662}	R ^{D32}	R ^{D32}	R ^{D1}
L _{C663}	R ^{D33}	R ^{D33}	R ^{D1}
L _{C664}	R ^{D34}	R ^{D34}	R ^{D1}
L _{C665}	R ^{D35}	R ^{D35}	R ^{D1}
L _{C666}	R ^{D40}	R ^{D40}	R ^{D1}
L _{C667}	R ^{D41}	R ^{D41}	R ^{D1}
L _{C668}	R ^{D42}	R ^{D42}	R ^{D1}
L _{C669}	R ^{D64}	R ^{D64}	R ^{D1}
L _{C670}	R ^{D66}	R ^{D66}	R ^{D1}
L _{C671}	R ^{D68}	R ^{D68}	R ^{D1}
L _{C672}	R ^{D76}	R ^{D76}	R ^{D1}
L _{C673}	R ^{D1}	R ^{D2}	R ^{D1}
L _{C674}	R ^{D1}	R ^{D3}	R ^{D1}
L _{C675}	R ^{D1}	R ^{D4}	R ^{D1}
L _{C676}	R ^{D1}	R ^{D5}	R ^{D1}
L _{C677}	R ^{D1}	R ^{D6}	R ^{D1}
L _{C678}	R ^{D1}	R ^{D7}	R ^{D1}
L _{C679}	R ^{D1}	R ^{D8}	R ^{D1}
L _{C680}	R ^{D1}	R ^{D9}	R ^{D1}
L _{C681}	R ^{D1}	R ^{D10}	R ^{D1}
L _{C682}	R ^{D1}	R ^{D11}	R ^{D1}
L _{C683}	R ^{D1}	R ^{D12}	R ^{D1}
L _{C684}	R ^{D1}	R ^{D13}	R ^{D1}
L _{C685}	R ^{D1}	R ^{D14}	R ^{D1}
L _{C686}	R ^{D1}	R ^{D15}	R ^{D1}
L _{C687}	R ^{D1}	R ^{D16}	R ^{D1}
L _{C688}	R ^{D1}	R ^{D17}	R ^{D1}
L _{C689}	R ^{D1}	R ^{D18}	R ^{D1}
L _{C690}	R ^{D1}	R ^{D19}	R ^{D1}
L _{C691}	R ^{D1}	R ^{D20}	R ^{D1}
L _{C692}	R ^{D1}	R ^{D21}	R ^{D1}
L _{C693}	R ^{D1}	R ^{D22}	R ^{D1}
L _{C694}	R ^{D1}	R ^{D23}	R ^{D1}
L _{C695}	R ^{D1}	R ^{D24}	R ^{D1}
L _{C696}	R ^{D1}	R ^{D25}	R ^{D1}
L _{C697}	R ^{D1}	R ^{D26}	R ^{D1}
L _{C698}	R ^{D1}	R ^{D27}	R ^{D1}
L _{C699}	R ^{D1}	R ^{D28}	R ^{D1}
L _{C700}	R ^{D1}	R ^{D29}	R ^{D1}
L _{C701}	R ^{D1}	R ^{D30}	R ^{D1}
L _{C702}	R ^{D1}	R ^{D31}	R ^{D1}
L _{C703}	R ^{D1}	R ^{D32}	R ^{D1}
L _{C704}	R ^{D1}	R ^{D33}	R ^{D1}
L _{C705}	R ^{D1}	R ^{D34}	R ^{D1}
L _{C706}	R ^{D1}	R ^{D35}	R ^{D1}
L _{C707}	R ^{D1}	R ^{D40}	R ^{D1}
L _{C708}	R ^{D1}	R ^{D41}	R ^{D1}
L _{C709}	R ^{D1}	R ^{D42}	R ^{D1}
L _{C710}	R ^{D1}	R ^{D64}	R ^{D1}
L _{C711}	R ^{D1}	R ^{D66}	R ^{D1}
L _{C712}	R ^{D1}	R ^{D68}	R ^{D1}
L _{C713}	R ^{D1}	R ^{D76}	R ^{D1}
L _{C714}	R ^{D2}	R ^{D1}	R ^{D1}
L _{C715}	R ^{D2}	R ^{D3}	R ^{D1}
L _{C716}	R ^{D2}	R ^{D4}	R ^{D1}
L _{C717}	R ^{D2}	R ^{D5}	R ^{D1}
L _{C718}	R ^{D2}	R ^{D6}	R ^{D1}
L _{C719}	R ^{D2}	R ^{D7}	R ^{D1}
L _{C720}	R ^{D2}	R ^{D8}	R ^{D1}
L _{C721}	R ^{D2}	R ^{D9}	R ^{D1}
L _{C722}	R ^{D2}	R ^{D10}	R ^{D1}
L _{C723}	R ^{D2}	R ^{D11}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C724}	R ^{D2}	R ^{D12}	R ^{D1}
L _{C725}	R ^{D2}	R ^{D13}	R ^{D1}
L _{C726}	R ^{D2}	R ^{D14}	R ^{D1}
L _{C727}	R ^{D2}	R ^{D15}	R ^{D1}
L _{C728}	R ^{D2}	R ^{D16}	R ^{D1}
L _{C729}	R ^{D2}	R ^{D17}	R ^{D1}
L _{C730}	R ^{D2}	R ^{D18}	R ^{D1}
L _{C731}	R ^{D2}	R ^{D19}	R ^{D1}
L _{C732}	R ^{D2}	R ^{D20}	R ^{D1}
L _{C733}	R ^{D2}	R ^{D21}	R ^{D1}
L _{C734}	R ^{D2}	R ^{D22}	R ^{D1}
L _{C735}	R ^{D2}	R ^{D23}	R ^{D1}
L _{C736}	R ^{D2}	R ^{D24}	R ^{D1}
L _{C737}	R ^{D2}	R ^{D25}	R ^{D1}
L _{C738}	R ^{D2}	R ^{D26}	R ^{D1}
L _{C739}	R ^{D2}	R ^{D27}	R ^{D1}
L _{C740}	R ^{D2}	R ^{D28}	R ^{D1}
L _{C741}	R ^{D2}	R ^{D29}	R ^{D1}
L _{C742}	R ^{D2}	R ^{D30}	R ^{D1}
L _{C743}	R ^{D2}	R ^{D31}	R ^{D1}
L _{C744}	R ^{D2}	R ^{D32}	R ^{D1}
L _{C745}	R ^{D2}	R ^{D33}	R ^{D1}
L _{C746}	R ^{D2}	R ^{D34}	R ^{D1}
L _{C747}	R ^{D2}	R ^{D35}	R ^{D1}
L _{C748}	R ^{D2}	R ^{D40}	R ^{D1}
L _{C749}	R ^{D2}	R ^{D41}	R ^{D1}
L _{C750}	R ^{D2}	R ^{D42}	R ^{D1}
L _{C751}	R ^{D2}	R ^{D64}	R ^{D1}
L _{C752}	R ^{D2}	R ^{D66}	R ^{D1}
L _{C753}	R ^{D2}	R ^{D68}	R ^{D1}
L _{C754}	R ^{D2}	R ^{D76}	R ^{D1}
L _{C755}	R ^{D3}	R ^{D4}	R ^{D1}
L _{C756}	R ^{D3}	R ^{D5}	R ^{D1}
L _{C757}	R ^{D3}	R ^{D6}	R ^{D1}
L _{C758}	R ^{D3}	R ^{D7}	R ^{D1}
L _{C759}	R ^{D3}	R ^{D8}	R ^{D1}
L _{C760}	R ^{D3}	R ^{D9}	R ^{D1}
L _{C761}	R ^{D3}	R ^{D10}	R ^{D1}
L _{C762}	R ^{D3}	R ^{D11}	R ^{D1}
L _{C763}	R ^{D3}	R ^{D12}	R ^{D1}
L _{C764}	R ^{D3}	R ^{D13}	R ^{D1}
L _{C765}	R ^{D3}	R ^{D14}	R ^{D1}
L _{C766}	R ^{D3}	R ^{D15}	R ^{D1}
L _{C767}	R ^{D3}	R ^{D16}	R ^{D1}
L _{C768}	R ^{D3}	R ^{D17}	R ^{D1}
L _{C769}	R ^{D3}	R ^{D18}	R ^{D1}
L _{C770}	R ^{D3}	R ^{D19}	R ^{D1}
L _{C771}	R ^{D3}	R ^{D20}	R ^{D1}
L _{C772}	R ^{D3}	R ^{D21}	R ^{D1}
L _{C773}	R ^{D3}	R ^{D22}	R ^{D1}
L _{C774}	R ^{D3}	R ^{D23}	R ^{D1}
L _{C775}	R ^{D3}	R ^{D24}	R ^{D1}
L _{C776}	R ^{D3}	R ^{D25}	R ^{D1}
L _{C777}	R ^{D3}	R ^{D26}	R ^{D1}
L _{C778}	R ^{D3}	R ^{D27}	R ^{D1}
L _{C779}	R ^{D3}	R ^{D28}	R ^{D1}
L _{C780}	R ^{D3}	R ^{D29}	R ^{D1}
L _{C781}	R ^{D3}	R ^{D30}	R ^{D1}
L _{C782}	R ^{D3}	R ^{D31}	R ^{D1}
L _{C783}	R ^{D3}	R ^{D32}	R ^{D1}
L _{C784}	R ^{D3}	R ^{D33}	R ^{D1}
L _{C785}	R ^{D3}	R ^{D34}	R ^{D1}
L _{C786}	R ^{D3}	R ^{D35}	R ^{D1}
L _{C787}	R ^{D3}	R ^{D40}	R ^{D1}
L _{C788}	R ^{D3}	R ^{D41}	R ^{D1}
L _{C789}	R ^{D3}	R ^{D42}	R ^{D1}
L _{C790}	R ^{D3}	R ^{D64}	R ^{D1}
L _{C791}	R ^{D3}	R ^{D66}	R ^{D1}
L _{C792}	R ^{D3}	R ^{D68}	R ^{D1}
L _{C793}	R ^{D3}	R ^{D76}	R ^{D1}
L _{C794}	R ^{D4}	R ^{D5}	R ^{D1}
L _{C795}	R ^{D4}	R ^{D6}	R ^{D1}
L _{C796}	R ^{D4}	R ^{D7}	R ^{D1}
L _{C797}	R ^{D4}	R ^{D8}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C798}	R ^{D4}	R ^{D9}	R ^{D1}
L _{C799}	R ^{D4}	R ^{D10}	R ^{D1}
L _{C800}	R ^{D4}	R ^{D11}	R ^{D1}
L _{C801}	R ^{D4}	R ^{D12}	R ^{D1}
L _{C802}	R ^{D4}	R ^{D13}	R ^{D1}
L _{C803}	R ^{D4}	R ^{D14}	R ^{D1}
L _{C804}	R ^{D4}	R ^{D15}	R ^{D1}
L _{C805}	R ^{D4}	R ^{D16}	R ^{D1}
L _{C806}	R ^{D4}	R ^{D17}	R ^{D1}
L _{C807}	R ^{D4}	R ^{D18}	R ^{D1}
L _{C808}	R ^{D4}	R ^{D19}	R ^{D1}
L _{C809}	R ^{D4}	R ^{D20}	R ^{D1}
L _{C810}	R ^{D4}	R ^{D21}	R ^{D1}
L _{C811}	R ^{D4}	R ^{D22}	R ^{D1}
L _{C812}	R ^{D4}	R ^{D23}	R ^{D1}
L _{C813}	R ^{D4}	R ^{D24}	R ^{D1}
L _{C814}	R ^{D4}	R ^{D25}	R ^{D1}
L _{C815}	R ^{D4}	R ^{D26}	R ^{D1}
L _{C816}	R ^{D4}	R ^{D27}	R ^{D1}
L _{C817}	R ^{D4}	R ^{D28}	R ^{D1}
L _{C818}	R ^{D4}	R ^{D29}	R ^{D1}
L _{C819}	R ^{D4}	R ^{D30}	R ^{D1}
L _{C820}	R ^{D4}	R ^{D31}	R ^{D1}
L _{C821}	R ^{D4}	R ^{D32}	R ^{D1}
L _{C822}	R ^{D4}	R ^{D33}	R ^{D1}
L _{C823}	R ^{D4}	R ^{D34}	R ^{D1}
L _{C824}	R ^{D4}	R ^{D35}	R ^{D1}
L _{C825}	R ^{D4}	R ^{D40}	R ^{D1}
L _{C826}	R ^{D4}	R ^{D41}	R ^{D1}
L _{C827}	R ^{D4}	R ^{D42}	R ^{D1}
L _{C828}	R ^{D4}	R ^{D64}	R ^{D1}
L _{C829}	R ^{D4}	R ^{D66}	R ^{D1}
L _{C830}	R ^{D4}	R ^{D68}	R ^{D1}
L _{C831}	R ^{D4}	R ^{D76}	R ^{D1}
L _{C832}	R ^{D4}	R ^{D1}	R ^{D1}
L _{C833}	R ^{D7}	R ^{D5}	R ^{D1}
L _{C834}	R ^{D7}	R ^{D6}	R ^{D1}
L _{C835}	R ^{D7}	R ^{D8}	R ^{D1}
L _{C836}	R ^{D7}	R ^{D9}	R ^{D1}
L _{C837}	R ^{D7}	R ^{D10}	R ^{D1}
L _{C838}	R ^{D7}	R ^{D11}	R ^{D1}
L _{C839}	R ^{D7}	R ^{D12}	R ^{D1}
L _{C840}	R ^{D7}	R ^{D13}	R ^{D1}
L _{C841}	R ^{D7}	R ^{D14}	R ^{D1}
L _{C842}	R ^{D7}	R ^{D15}	R ^{D1}
L _{C843}	R ^{D7}	R ^{D16}	R ^{D1}
L _{C844}	R ^{D7}	R ^{D17}	R ^{D1}
L _{C845}	R ^{D7}	R ^{D18}	R ^{D1}
L _{C846}	R ^{D7}	R ^{D19}	R ^{D1}
L _{C847}	R ^{D7}	R ^{D20}	R ^{D1}
L _{C848}	R ^{D7}	R ^{D21}	R ^{D1}
L _{C849}	R ^{D7}	R ^{D22}	R ^{D1}
L _{C850}	R ^{D7}	R ^{D23}	R ^{D1}
L _{C851}	R ^{D7}	R ^{D24}	R ^{D1}
L _{C852}	R ^{D7}	R ^{D25}	R ^{D1}
L _{C853}	R ^{D7}	R ^{D26}	R ^{D1}
L _{C854}	R ^{D7}	R ^{D27}	R ^{D1}
L _{C855}	R ^{D7}	R ^{D28}	R ^{D1}
L _{C856}	R ^{D7}	R ^{D29}	R ^{D1}
L _{C857}	R ^{D7}	R ^{D30}	R ^{D1}
L _{C858}	R ^{D7}	R ^{D31}	R ^{D1}
L _{C859}	R ^{D7}	R ^{D32}	R ^{D1}
L _{C860}	R ^{D7}	R ^{D33}	R ^{D1}
L _{C861}	R ^{D7}	R ^{D34}	R ^{D1}
L _{C862}	R ^{D7}	R ^{D35}	R ^{D1}
L _{C863}	R ^{D7}	R ^{D40}	R ^{D1}
L _{C864}	R ^{D7}	R ^{D41}	R ^{D1}
L _{C865}	R ^{D7}	R ^{D42}	R ^{D1}
L _{C866}	R ^{D7}	R ^{D64}	R ^{D1}
L _{C867}	R ^{D7}	R ^{D66}	R ^{D1}
L _{C868}	R ^{D7}	R ^{D68}	R ^{D1}
L _{C869}	R ^{D7}	R ^{D76}	R ^{D1}
L _{C870}	R ^{D8}	R ^{D5}	R ^{D1}
L _{C871}	R ^{D8}	R ^{D6}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C872}	R ^{D8}	R ^{D9}	R ^{D1}
L _{C873}	R ^{D8}	R ^{D10}	R ^{D1}
L _{C874}	R ^{D8}	R ^{D11}	R ^{D1}
L _{C875}	R ^{D8}	R ^{D12}	R ^{D1}
L _{C876}	R ^{D8}	R ^{D13}	R ^{D1}
L _{C877}	R ^{D8}	R ^{D14}	R ^{D1}
L _{C878}	R ^{D8}	R ^{D15}	R ^{D1}
L _{C879}	R ^{D8}	R ^{D16}	R ^{D1}
L _{C880}	R ^{D8}	R ^{D17}	R ^{D1}
L _{C881}	R ^{D8}	R ^{D18}	R ^{D1}
L _{C882}	R ^{D8}	R ^{D19}	R ^{D1}
L _{C883}	R ^{D8}	R ^{D20}	R ^{D1}
L _{C884}	R ^{D8}	R ^{D21}	R ^{D1}
L _{C885}	R ^{D8}	R ^{D22}	R ^{D1}
L _{C886}	R ^{D8}	R ^{D23}	R ^{D1}
L _{C887}	R ^{D8}	R ^{D24}	R ^{D1}
L _{C888}	R ^{D8}	R ^{D25}	R ^{D1}
L _{C889}	R ^{D8}	R ^{D26}	R ^{D1}
L _{C890}	R ^{D8}	R ^{D27}	R ^{D1}
L _{C891}	R ^{D8}	R ^{D28}	R ^{D1}
L _{C892}	R ^{D8}	R ^{D29}	R ^{D1}
L _{C893}	R ^{D8}	R ^{D30}	R ^{D1}
L _{C894}	R ^{D8}	R ^{D31}	R ^{D1}
L _{C895}	R ^{D8}	R ^{D32}	R ^{D1}
L _{C896}	R ^{D8}	R ^{D33}	R ^{D1}
L _{C897}	R ^{D8}	R ^{D34}	R ^{D1}
L _{C898}	R ^{D8}	R ^{D35}	R ^{D1}
L _{C899}	R ^{D8}	R ^{D40}	R ^{D1}
L _{C900}	R ^{D8}	R ^{D41}	R ^{D1}
L _{C901}	R ^{D8}	R ^{D42}	R ^{D1}
L _{C902}	R ^{D8}	R ^{D64}	R ^{D1}
L _{C903}	R ^{D8}	R ^{D66}	R ^{D1}
L _{C904}	R ^{D8}	R ^{D68}	R ^{D1}
L _{C905}	R ^{D8}	R ^{D76}	R ^{D1}
L _{C906}	R ^{D11}	R ^{D5}	R ^{D1}
L _{C907}	R ^{D11}	R ^{D6}	R ^{D1}
L _{C908}	R ^{D11}	R ^{D9}	R ^{D1}
L _{C909}	R ^{D11}	R ^{D10}	R ^{D1}
L _{C910}	R ^{D11}	R ^{D12}	R ^{D1}
L _{C911}	R ^{D11}	R ^{D13}	R ^{D1}
L _{C912}	R ^{D11}	R ^{D14}	R ^{D1}
L _{C913}	R ^{D11}	R ^{D15}	R ^{D1}
L _{C914}	R ^{D11}	R ^{D16}	R ^{D1}
L _{C915}	R ^{D11}	R ^{D17}	R ^{D1}
L _{C916}	R ^{D11}	R ^{D18}	R ^{D1}
L _{C917}	R ^{D11}	R ^{D19}	R ^{D1}
L _{C918}	R ^{D11}	R ^{D20}	R ^{D1}
L _{C919}	R ^{D11}	R ^{D21}	R ^{D1}
L _{C920}	R ^{D11}	R ^{D22}	R ^{D1}
L _{C921}	R ^{D11}	R ^{D23}	R ^{D1}
L _{C922}	R ^{D11}	R ^{D24}	R ^{D1}
L _{C923}	R ^{D11}	R ^{D25}	R ^{D1}
L _{C924}	R ^{D11}	R ^{D26}	R ^{D1}
L _{C925}	R ^{D11}	R ^{D27}	R ^{D1}
L _{C926}	R ^{D11}	R ^{D28}	R ^{D1}
L _{C927}	R ^{D11}	R ^{D29}	R ^{D1}
L _{C928}	R ^{D11}	R ^{D30}	R ^{D1}
L _{C929}	R ^{D11}	R ^{D31}	R ^{D1}
L _{C930}	R ^{D11}	R ^{D32}	R ^{D1}
L _{C931}	R ^{D11}	R ^{D33}	R ^{D1}
L _{C932}	R ^{D11}	R ^{D34}	R ^{D1}
L _{C933}	R ^{D11}	R ^{D35}	R ^{D1}
L _{C934}	R ^{D11}	R ^{D40}	R ^{D1}
L _{C935}	R ^{D11}	R ^{D41}	R ^{D1}
L _{C936}	R ^{D11}	R ^{D42}	R ^{D1}
L _{C937}	R ^{D11}	R ^{D64}	R ^{D1}
L _{C938}	R ^{D11}	R ^{D66}	R ^{D1}
L _{C939}	R ^{D11}	R ^{D68}	R ^{D1}
L _{C940}	R ^{D11}	R ^{D76}	R ^{D1}
L _{C941}	R ^{D13}	R ^{D5}	R ^{D1}
L _{C942}	R ^{D13}	R ^{D6}	R ^{D1}
L _{C943}	R ^{D13}	R ^{D9}	R ^{D1}
L _{C944}	R ^{D13}	R ^{D10}	R ^{D1}
L _{C945}	R ^{D13}	R ^{D12}	R ^{D1}

-continued

Ligand	R ¹	R ²	R ³
L _{C946}	R ^{D13}	R ^{D14}	R ^{D1}
L _{C947}	R ^{D13}	R ^{D15}	R ^{D1}
L _{C948}	R ^{D13}	R ^{D16}	R ^{D1}
L _{C949}	R ^{D13}	R ^{D17}	R ^{D1}
L _{C950}	R ^{D13}	R ^{D18}	R ^{D1}
L _{C951}	R ^{D13}	R ^{D19}	R ^{D1}
L _{C952}	R ^{D13}	R ^{D20}	R ^{D1}
L _{C953}	R ^{D13}	R ^{D21}	R ^{D1}
L _{C954}	R ^{D13}	R ^{D22}	R ^{D1}
L _{C955}	R ^{D13}	R ^{D23}	R ^{D1}
L _{C956}	R ^{D13}	R ^{D24}	R ^{D1}
L _{C957}	R ^{D13}	R ^{D25}	R ^{D1}
L _{C958}	R ^{D13}	R ^{D26}	R ^{D1}
L _{C959}	R ^{D13}	R ^{D27}	R ^{D1}
L _{C960}	R ^{D13}	R ^{D28}	R ^{D1}
L _{C961}	R ^{D13}	R ^{D29}	R ^{D1}
L _{C962}	R ^{D13}	R ^{D30}	R ^{D1}
L _{C963}	R ^{D13}	R ^{D31}	R ^{D1}
L _{C964}	R ^{D13}	R ^{D32}	R ^{D1}
L _{C965}	R ^{D13}	R ^{D33}	R ^{D1}
L _{C966}	R ^{D13}	R ^{D34}	R ^{D1}
L _{C967}	R ^{D13}	R ^{D35}	R ^{D1}
L _{C968}	R ^{D13}	R ^{D40}	R ^{D1}
L _{C969}	R ^{D13}	R ^{D41}	R ^{D1}
L _{C970}	R ^{D13}	R ^{D42}	R ^{D1}
L _{C971}	R ^{D13}	R ^{D64}	R ^{D1}
L _{C972}	R ^{D13}	R ^{D66}	R ^{D1}
L _{C973}	R ^{D13}	R ^{D68}	R ^{D1}
L _{C974}	R ^{D13}	R ^{D76}	R ^{D1}
L _{C975}	R ^{D14}	R ^{D5}	R ^{D1}
L _{C976}	R ^{D14}	R ^{D6}	R ^{D1}
L _{C977}	R ^{D14}	R ^{D9}	R ^{D1}
L _{C978}	R ^{D14}	R ^{D10}	R ^{D1}
L _{C979}	R ^{D14}	R ^{D12}	R ^{D1}
L _{C980}	R ^{D14}	R ^{D15}	R ^{D1}
L _{C981}	R ^{D14}	R ^{D16}	R ^{D1}
L _{C982}	R ^{D14}	R ^{D17}	R ^{D1}
L _{C983}	R ^{D14}	R ^{D18}	R ^{D1}
L _{C984}	R ^{D14}	R ^{D19}	R ^{D1}
L _{C985}	R ^{D14}	R ^{D20}	R ^{D1}
L _{C986}	R ^{D14}	R ^{D21}	R ^{D1}
L _{C987}	R ^{D14}	R ^{D22}	R ^{D1}
L _{C988}	R ^{D14}	R ^{D23}	R ^{D1}
L _{C989}	R ^{D14}	R ^{D24}	R ^{D1}
L _{C990}	R ^{D14}	R ^{D25}	R ^{D1}
L _{C991}	R ^{D14}	R ^{D26}	R ^{D1}
L _{C992}	R ^{D14}	R ^{D27}	R ^{D1}
L _{C993}	R ^{D14}	R ^{D28}	R ^{D1}
L _{C994}	R ^{D14}	R ^{D29}	R ^{D1}
L _{C995}	R ^{D14}	R ^{D30}	R ^{D1}
L _{C996}	R ^{D14}	R ^{D31}	R ^{D1}
L _{C997}	R ^{D14}	R ^{D32}	R ^{D1}
L _{C998}	R ^{D14}	R ^{D33}	R ^{D1}
L _{C999}	R ^{D14}	R ^{D34}	R ^{D1}
L _{C1000}	R ^{D14}	R ^{D35}	R ^{D1}
L _{C1001}	R ^{D14}	R ^{D40}	R ^{D1}
L _{C1002}	R ^{D14}	R ^{D41}	R ^{D1}
L _{C1003}	R ^{D14}	R ^{D42}	R ^{D1}
L _{C1004}	R ^{D14}	R ^{D64}	R ^{D1}
L _{C1005}	R ^{D14}	R ^{D66}	R ^{D1}
L _{C1006}	R ^{D14}	R ^{D68}	R ^{D1}
L _{C1007}	R ^{D14}	R ^{D76}	R ^{D1}
L _{C1008}	R ^{D22}	R ^{D5}	R ^{D1}
L _{C1009}	R ^{D22}	R ^{D6}	R ^{D1}
L _{C1010}	R ^{D22}	R ^{D9}	R ^{D1}
L _{C1011}	R ^{D22}	R ^{D10}	R ^{D1}
L _{C1012}	R ^{D22}	R ^{D12}	R ^{D1}
L _{C1013}	R ^{D22}	R ^{D15}	R ^{D1}
L _{C1014}	R ^{D22}	R ^{D16}	R ^{D1}
L _{C1015}	R ^{D22}	R ^{D17}	R ^{D1}
L _{C1016}	R ^{D22}	R ^{D18}	R ^{D1}
L _{C1017}	R ^{D22}	R ^{D19}	R ^{D1}
L _{C1018}	R ^{D22}	R ^{D20}	R ^{D1}
L _{C1019}	R ^{D22}	R ^{D21}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C1020}	R ^{D22}	R ^{D23}	R ^{D1}
L _{C1021}	R ^{D22}	R ^{D24}	R ^{D1}
L _{C1022}	R ^{D22}	R ^{D25}	R ^{D1}
L _{C1023}	R ^{D22}	R ^{D26}	R ^{D1}
L _{C1024}	R ^{D22}	R ^{D27}	R ^{D1}
L _{C1025}	R ^{D22}	R ^{D28}	R ^{D1}
L _{C1026}	R ^{D22}	R ^{D29}	R ^{D1}
L _{C1027}	R ^{D22}	R ^{D30}	R ^{D1}
L _{C1028}	R ^{D22}	R ^{D31}	R ^{D1}
L _{C1029}	R ^{D22}	R ^{D32}	R ^{D1}
L _{C1030}	R ^{D22}	R ^{D33}	R ^{D1}
L _{C1031}	R ^{D22}	R ^{D34}	R ^{D1}
L _{C1032}	R ^{D22}	R ^{D35}	R ^{D1}
L _{C1033}	R ^{D22}	R ^{D40}	R ^{D1}
L _{C1034}	R ^{D22}	R ^{D41}	R ^{D1}
L _{C1035}	R ^{D22}	R ^{D42}	R ^{D1}
L _{C1036}	R ^{D22}	R ^{D64}	R ^{D1}
L _{C1037}	R ^{D22}	R ^{D66}	R ^{D1}
L _{C1038}	R ^{D22}	R ^{D68}	R ^{D1}
L _{C1039}	R ^{D22}	R ^{D76}	R ^{D1}
L _{C1040}	R ^{D26}	R ^{D5}	R ^{D1}
L _{C1041}	R ^{D26}	R ^{D6}	R ^{D1}
L _{C1042}	R ^{D26}	R ^{D9}	R ^{D1}
L _{C1043}	R ^{D26}	R ^{D10}	R ^{D1}
L _{C1044}	R ^{D26}	R ^{D12}	R ^{D1}
L _{C1045}	R ^{D26}	R ^{D15}	R ^{D1}
L _{C1046}	R ^{D26}	R ^{D16}	R ^{D1}
L _{C1047}	R ^{D26}	R ^{D17}	R ^{D1}
L _{C1048}	R ^{D26}	R ^{D18}	R ^{D1}
L _{C1049}	R ^{D26}	R ^{D19}	R ^{D1}
L _{C1050}	R ^{D26}	R ^{D20}	R ^{D1}
L _{C1051}	R ^{D26}	R ^{D21}	R ^{D1}
L _{C1052}	R ^{D26}	R ^{D23}	R ^{D1}
L _{C1053}	R ^{D26}	R ^{D24}	R ^{D1}
L _{C1054}	R ^{D26}	R ^{D25}	R ^{D1}
L _{C1055}	R ^{D26}	R ^{D27}	R ^{D1}
L _{C1056}	R ^{D26}	R ^{D28}	R ^{D1}
L _{C1057}	R ^{D26}	R ^{D29}	R ^{D1}
L _{C1058}	R ^{D26}	R ^{D30}	R ^{D1}
L _{C1059}	R ^{D26}	R ^{D31}	R ^{D1}
L _{C1060}	R ^{D26}	R ^{D32}	R ^{D1}
L _{C1061}	R ^{D26}	R ^{D33}	R ^{D1}
L _{C1062}	R ^{D26}	R ^{D34}	R ^{D1}
L _{C1063}	R ^{D26}	R ^{D35}	R ^{D1}
L _{C1064}	R ^{D26}	R ^{D40}	R ^{D1}
L _{C1065}	R ^{D26}	R ^{D41}	R ^{D1}
L _{C1066}	R ^{D26}	R ^{D42}	R ^{D1}
L _{C1067}	R ^{D26}	R ^{D64}	R ^{D1}
L _{C1068}	R ^{D26}	R ^{D66}	R ^{D1}
L _{C1069}	R ^{D26}	R ^{D68}	R ^{D1}
L _{C1070}	R ^{D26}	R ^{D76}	R ^{D1}
L _{C1071}	R ^{D35}	R ^{D5}	R ^{D1}
L _{C1072}	R ^{D35}	R ^{D6}	R ^{D1}
L _{C1073}	R ^{D35}	R ^{D9}	R ^{D1}
L _{C1074}	R ^{D35}	R ^{D10}	R ^{D1}
L _{C1075}	R ^{D35}	R ^{D12}	R ^{D1}
L _{C1076}	R ^{D35}	R ^{D15}	R ^{D1}
L _{C1077}	R ^{D35}	R ^{D16}	R ^{D1}
L _{C1078}	R ^{D35}	R ^{D17}	R ^{D1}
L _{C1079}	R ^{D35}	R ^{D18}	R ^{D1}
L _{C1080}	R ^{D35}	R ^{D19}	R ^{D1}
L _{C1081}	R ^{D35}	R ^{D20}	R ^{D1}
L _{C1082}	R ^{D35}	R ^{D21}	R ^{D1}
L _{C1083}	R ^{D35}	R ^{D23}	R ^{D1}
L _{C1084}	R ^{D35}	R ^{D24}	R ^{D1}
L _{C1085}	R ^{D35}	R ^{D25}	R ^{D1}
L _{C1086}	R ^{D35}	R ^{D27}	R ^{D1}
L _{C1087}	R ^{D35}	R ^{D28}	R ^{D1}
L _{C1088}	R ^{D35}	R ^{D29}	R ^{D1}
L _{C1089}	R ^{D35}	R ^{D30}	R ^{D1}
L _{C1090}	R ^{D35}	R ^{D31}	R ^{D1}
L _{C1091}	R ^{D35}	R ^{D32}	R ^{D1}
L _{C1092}	R ^{D35}	R ^{D33}	R ^{D1}
L _{C1093}	R ^{D35}	R ^{D34}	R ^{D1}

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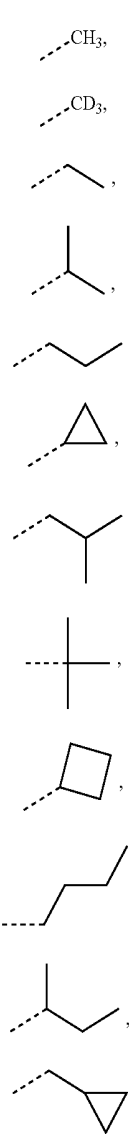
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L _{C1095}	R ^{D35}	R ^{D41}	R ^{D1}
L _{C1096}	R ^{D35}	R ^{D42}	R ^{D1}
L _{C1097}	R ^{D35}	R ^{D64}	R ^{D1}
L _{C1098}	R ^{D35}	R ^{D66}	R ^{D1}
L _{C1099}	R ^{D35}	R ^{D68}	R ^{D1}
L _{C1100}	R ^{D35}	R ^{D76}	R ^{D1}
L _{C1101}	R ^{D40}	R ^{D5}	R ^{D1}
L _{C1102}	R ^{D40}	R ^{D6}	R ^{D1}
L _{C1103}	R ^{D40}	R ^{D9}	R ^{D1}
L _{C1104}	R ^{D40}	R ^{D10}	R ^{D1}
L _{C1105}	R ^{D40}	R ^{D12}	R ^{D1}
L _{C1106}	R ^{D40}	R ^{D15}	R ^{D1}
L _{C1107}	R ^{D40}	R ^{D16}	R ^{D1}
L _{C1108}	R ^{D40}	R ^{D17}	R ^{D1}
L _{C1109}	R ^{D40}	R ^{D18}	R ^{D1}
L _{C1110}	R ^{D40}	R ^{D19}	R ^{D1}
L _{C1111}	R ^{D40}	R ^{D20}	R ^{D1}
L _{C1112}	R ^{D40}	R ^{D21}	R ^{D1}
L _{C1113}	R ^{D40}	R ^{D23}	R ^{D1}
L _{C1114}	R ^{D40}	R ^{D24}	R ^{D1}
L _{C1115}	R ^{D40}	R ^{D25}	R ^{D1}
L _{C1116}	R ^{D40}	R ^{D27}	R ^{D1}
L _{C1117}	R ^{D40}	R ^{D28}	R ^{D1}
L _{C1118}	R ^{D40}	R ^{D29}	R ^{D1}
L _{C1119}	R ^{D40}	R ^{D30}	R ^{D1}
L _{C1120}	R ^{D40}	R ^{D31}	R ^{D1}
L _{C1121}	R ^{D40}	R ^{D32}	R ^{D1}
L _{C1122}	R ^{D40}	R ^{D33}	R ^{D1}
L _{C1123}	R ^{D40}	R ^{D34}	R ^{D1}
L _{C1124}	R ^{D40}	R ^{D41}	R ^{D1}
L _{C1125}	R ^{D40}	R ^{D42}	R ^{D1}
L _{C1126}	R ^{D40}	R ^{D64}	R ^{D1}
L _{C1127}	R ^{D40}	R ^{D66}	R ^{D1}
L _{C1128}	R ^{D40}	R ^{D68}	R ^{D1}
L _{C1129}	R ^{D40}	R ^{D76}	R ^{D1}
L _{C1130}	R ^{D41}	R ^{D5}	R ^{D1}
L _{C1131}	R ^{D41}	R ^{D6}	R ^{D1}
L _{C1132}	R ^{D41}	R ^{D9}	R ^{D1}
L _{C1133}	R ^{D41}	R ^{D10}	R ^{D1}
L _{C1134}	R ^{D41}	R ^{D12}	R ^{D1}
L _{C1135}	R ^{D41}	R ^{D15}	R ^{D1}
L _{C1136}	R ^{D41}	R ^{D16}	R ^{D1}
L _{C1137}	R ^{D41}	R ^{D17}	R ^{D1}
L _{C1138}	R ^{D41}	R ^{D18}	R ^{D1}
L _{C1139}	R ^{D41}	R ^{D19}	R ^{D1}
L _{C1140}	R ^{D41}	R ^{D20}	R ^{D1}
L _{C1141}	R ^{D41}	R ^{D21}	R ^{D1}
L _{C1142}	R ^{D41}	R ^{D23}	R ^{D1}
L _{C1143}	R ^{D41}	R ^{D24}	R ^{D1}
L _{C1144}	R ^{D41}	R ^{D25}	R ^{D1}
L _{C1145}	R ^{D41}	R ^{D27}	R ^{D1}
L _{C1146}	R ^{D41}	R ^{D28}	R ^{D1}
L _{C1147}	R ^{D41}	R ^{D29}	R ^{D1}
L _{C1148}	R ^{D41}	R ^{D30}	R ^{D1}
L _{C1149}	R ^{D41}	R ^{D31}	R ^{D1}
L _{C1150}	R ^{D41}	R ^{D32}	R ^{D1}
L _{C1151}	R ^{D41}	R ^{D33}	R ^{D1}
L _{C1152}	R ^{D41}	R ^{D34}	R ^{D1}
L _{C1153}	R ^{D41}	R ^{D42}	R ^{D1}
L _{C1154}	R ^{D41}	R ^{D64}	R ^{D1}
L _{C1155}	R ^{D41}	R ^{D66}	R ^{D1}
L _{C1156}	R ^{D41}	R ^{D68}	R ^{D1}
L _{C1157}	R ^{D41}	R ^{D76}	R ^{D1}
L _{C1158}	R ^{D64}	R ^{D5}	R ^{D1}
L _{C1159}	R ^{D64}	R ^{D6}	R ^{D1}
L _{C1160}	R ^{D64}	R ^{D9}	R ^{D1}
L _{C1161}	R ^{D64}	R ^{D10}	R ^{D1}
L _{C1162}	R ^{D64}	R ^{D12}	R ^{D1}
L _{C1163}	R ^{D64}	R ^{D15}	R ^{D1}
L _{C1164}	R ^{D64}	R ^{D16}	R ^{D1}
L _{C1165}	R ^{D64}	R ^{D17}	R ^{D1}
L _{C1166}	R ^{D64}	R ^{D18}	R ^{D1}
L _{C1167}	R ^{D64}	R ^{D19}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C1168}	R ^{D64}	R ^{D20}	R ^{D1}
L _{C1169}	R ^{D64}	R ^{D21}	R ^{D1}
L _{C1170}	R ^{D64}	R ^{D23}	R ^{D1}
L _{C1171}	R ^{D64}	R ^{D24}	R ^{D1}
L _{C1172}	R ^{D64}	R ^{D25}	R ^{D1}
L _{C1173}	R ^{D64}	R ^{D27}	R ^{D1}
L _{C1174}	R ^{D64}	R ^{D28}	R ^{D1}
L _{C1175}	R ^{D64}	R ^{D29}	R ^{D1}
L _{C1176}	R ^{D64}	R ^{D30}	R ^{D1}
L _{C1177}	R ^{D64}	R ^{D31}	R ^{D1}
L _{C1178}	R ^{D64}	R ^{D32}	R ^{D1}
L _{C1179}	R ^{D64}	R ^{D33}	R ^{D1}
L _{C1180}	R ^{D64}	R ^{D34}	R ^{D1}
L _{C1181}	R ^{D64}	R ^{D42}	R ^{D1}
L _{C1182}	R ^{D64}	R ^{D64}	R ^{D1}
L _{C1183}	R ^{D64}	R ^{D66}	R ^{D1}
L _{C1184}	R ^{D64}	R ^{D68}	R ^{D1}
L _{C1185}	R ^{D64}	R ^{D76}	R ^{D1}
L _{C1186}	R ^{D66}	R ^{D5}	R ^{D1}
L _{C1187}	R ^{D66}	R ^{D6}	R ^{D1}
L _{C1188}	R ^{D66}	R ^{D9}	R ^{D1}
L _{C1189}	R ^{D66}	R ^{D10}	R ^{D1}
L _{C1190}	R ^{D66}	R ^{D12}	R ^{D1}
L _{C1191}	R ^{D66}	R ^{D15}	R ^{D1}
L _{C1192}	R ^{D66}	R ^{D16}	R ^{D1}
L _{C1193}	R ^{D66}	R ^{D17}	R ^{D1}
L _{C1194}	R ^{D66}	R ^{D18}	R ^{D1}
L _{C1195}	R ^{D66}	R ^{D19}	R ^{D1}
L _{C1196}	R ^{D66}	R ^{D20}	R ^{D1}
L _{C1197}	R ^{D66}	R ^{D21}	R ^{D1}
L _{C1198}	R ^{D66}	R ^{D23}	R ^{D1}
L _{C1199}	R ^{D66}	R ^{D24}	R ^{D1}
L _{C1200}	R ^{D66}	R ^{D25}	R ^{D1}
L _{C1201}	R ^{D66}	R ^{D27}	R ^{D1}
L _{C1202}	R ^{D66}	R ^{D28}	R ^{D1}
L _{C1203}	R ^{D66}	R ^{D29}	R ^{D1}
L _{C1204}	R ^{D66}	R ^{D30}	R ^{D1}
L _{C1205}	R ^{D66}	R ^{D31}	R ^{D1}
L _{C1206}	R ^{D66}	R ^{D32}	R ^{D1}
L _{C1207}	R ^{D66}	R ^{D33}	R ^{D1}
L _{C1208}	R ^{D66}	R ^{D34}	R ^{D1}
L _{C1209}	R ^{D66}	R ^{D42}	R ^{D1}
L _{C1210}	R ^{D66}	R ^{D68}	R ^{D1}
L _{C1211}	R ^{D66}	R ^{D76}	R ^{D1}
L _{C1212}	R ^{D68}	R ^{D5}	R ^{D1}
L _{C1213}	R ^{D68}	R ^{D6}	R ^{D1}
L _{C1214}	R ^{D68}	R ^{D9}	R ^{D1}
L _{C1215}	R ^{D68}	R ^{D10}	R ^{D1}
L _{C1216}	R ^{D68}	R ^{D12}	R ^{D1}
L _{C1217}	R ^{D68}	R ^{D15}	R ^{D1}
L _{C1218}	R ^{D68}	R ^{D16}	R ^{D1}
L _{C1219}	R ^{D68}	R ^{D17}	R ^{D1}
L _{C1220}	R ^{D68}	R ^{D18}	R ^{D1}
L _{C1221}	R ^{D68}	R ^{D19}	R ^{D1}
L _{C1222}	R ^{D68}	R ^{D20}	R ^{D1}
L _{C1223}	R ^{D68}	R ^{D21}	R ^{D1}
L _{C1224}	R ^{D68}	R ^{D23}	R ^{D1}
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L _{C1230}	R ^{D68}	R ^{D30}	R ^{D1}
L _{C1231}	R ^{D68}	R ^{D31}	R ^{D1}
L _{C1232}	R ^{D68}	R ^{D32}	R ^{D1}
L _{C1233}	R ^{D68}	R ^{D33}	R ^{D1}
L _{C1234}	R ^{D68}	R ^{D34}	R ^{D1}
L _{C1235}	R ^{D68}	R ^{D42}	R ^{D1}
L _{C1236}	R ^{D68}	R ^{D76}	R ^{D1}
L _{C1237}	R ^{D76}	R ^{D5}	R ^{D1}
L _{C1238}	R ^{D76}	R ^{D6}	R ^{D1}
L _{C1239}	R ^{D76}	R ^{D9}	R ^{D1}
L _{C1240}	R ^{D76}	R ^{D10}	R ^{D1}
L _{C1241}	R ^{D76}	R ^{D12}	R ^{D1}

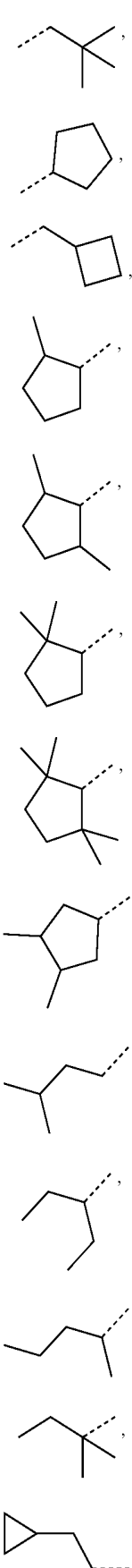
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Ligand	R ¹	R ²	R ³
L _{C1242}	R ^{D76}	R ^{D15}	R ^{D1}
L _{C1243}	R ^{D76}	R ^{D16}	R ^{D1}
L _{C1244}	R ^{D76}	R ^{D17}	R ^{D1}
L _{C1245}	R ^{D76}	R ^{D18}	R ^{D1}
L _{C1246}	R ^{D76}	R ^{D19}	R ^{D1}
L _{C1247}	R ^{D76}	R ^{D20}	R ^{D1}
L _{C1248}	R ^{D76}	R ^{D21}	R ^{D1}
L _{C1249}	R ^{D76}	R ^{D23}	R ^{D1}
L _{C1250}	R ^{D76}	R ^{D24}	R ^{D1}
L _{C1251}	R ^{D76}	R ^{D25}	R ^{D1}
L _{C1252}	R ^{D76}	R ^{D27}	R ^{D1}
L _{C1253}	R ^{D76}	R ^{D28}	R ^{D1}
L _{C1254}	R ^{D76}	R ^{D29}	R ^{D1}
L _{C1255}	R ^{D76}	R ^{D30}	R ^{D1}
L _{C1256}	R ^{D76}	R ^{D31}	R ^{D1}
L _{C1257}	R ^{D76}	R ^{D32}	R ^{D1}
L _{C1258}	R ^{D76}	R ^{D33}	R ^{D1}
L _{C1259}	R ^{D76}	R ^{D34}	R ^{D1}
L _{C1260}	R ^{D76}	R ^{D42}	R ^{D1}

wherein R^{D1} to R^{D81} has the following structures:



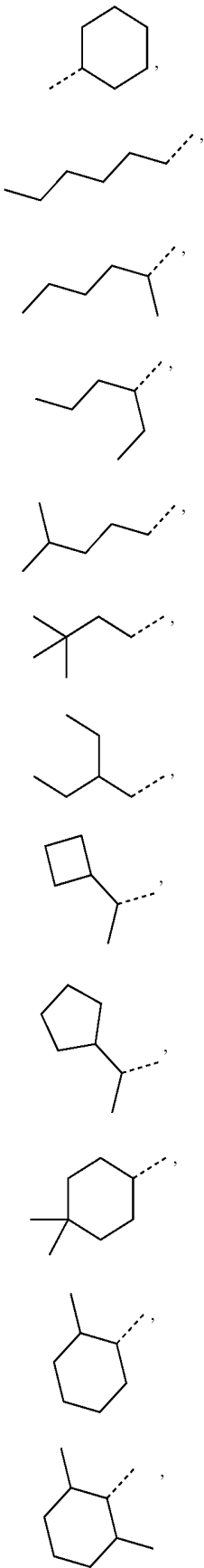
R^{D1}
R^{D2}
R^{D3}
R^{D4}
R^{D5}
R^{D6}
R^{D7}
R^{D8}
R^{D9}
R^{D10}
R^{D11}
R^{D12}

-continued



R^{D13}
R^{D14}
R^{D15}
R^{D16}
R^{D17}
R^{D18}
R^{D19}
R^{D20}
R^{D21}
R^{D22}
R^{D23}
R^{D24}
R^{D25}

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R^{D36}

R^{D27}

R^{D28}

R^{D29}

R^{D30}

R^{D31}

R^{D32}

R^{D33}

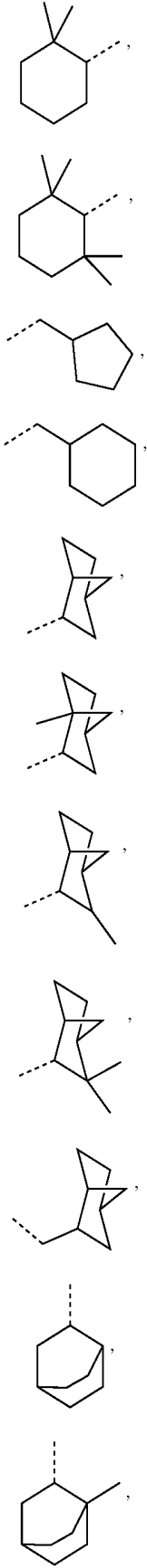
R^{D34}

R^{D35}

R^{D36}

R^{D37}

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R^{D38}

R^{D39}

R^{D40}

R^{D41}

R^{D42}

R^{D43}

R^{D44}

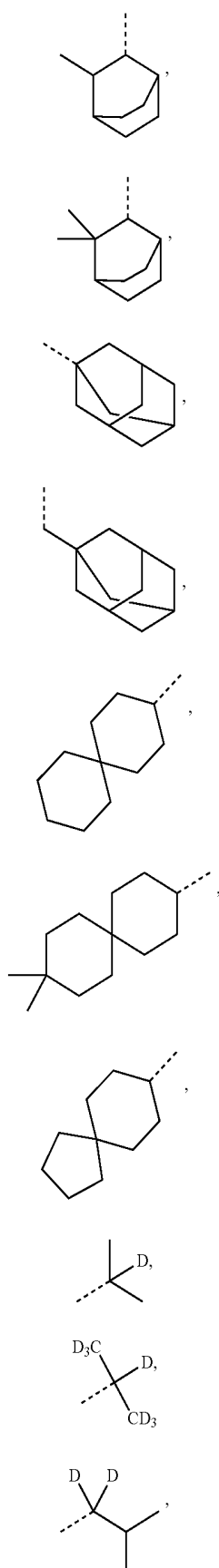
R^{D45}

R^{D46}

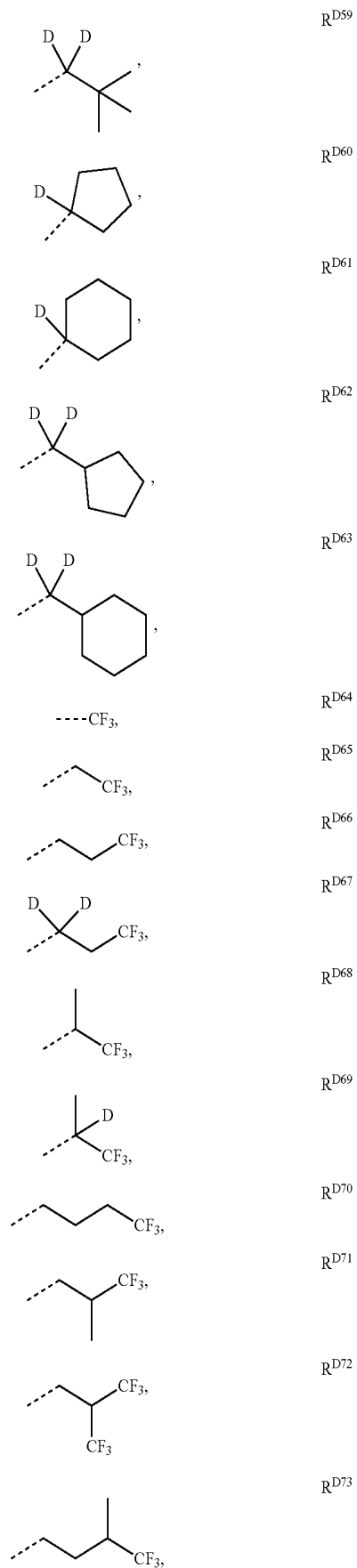
R^{D47}

R^{D48}

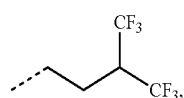
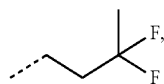
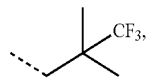
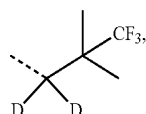
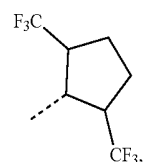
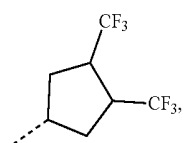
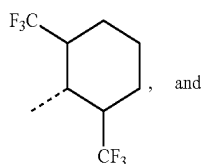
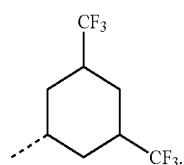
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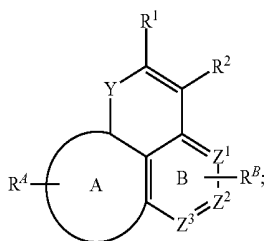


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R^{D74}R^{D75}R^{D76}R^{D77}R^{D78}R^{D79}R^{D80}R^{D81}

[0105] According to an aspect of the present disclosure, an organic light emitting device (OLED) is disclosed. The OLED comprises: an anode; a cathode; and an organic layer, disposed between the anode and the cathode, comprising a compound comprising:

[0106] a first ligand L^A of Formula I



[0107] where,

[0108] Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

[0109] Z¹, Z², and Z³ are each independently selected from the group comprising C and N;

[0110] Y is selected from the group consisting of O, S, Se, NR³, CRR', SiRR', GeRR', and a single bond;

[0111] a metal M forms a direct bond to Ring A or Ring B;

[0112] M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au;

[0113] R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution;

[0114] R^A, R^B, R¹, R², R³, R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl, cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

[0115] one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

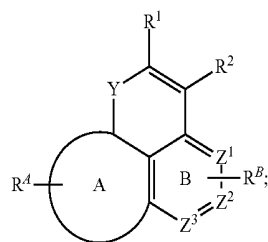
[0116] the ligand L_A is optionally linked with other ligands to form a tridentate ligand or a ligand with a maximum possible denticity to which M can coordinate;

[0117] any two substituents may be joined or fused together to form a ring, provided that R¹ and R² are not joined to form a 6-membered aromatic ring when Y is a single bond; and

[0118] M is optionally coordinated to other ligands.

[0119] A consumer product comprising an organic light-emitting device (OLED) comprising: an anode; a cathode; and an organic layer, disposed between the anode and the cathode, comprising a compound comprising:

[0120] a first ligand L^A of Formula I



[0121] where,

[0122] Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

[0123] Z¹, Z², and Z³ are each independently selected from the group comprising C and N;

[0124] Y is selected from the group consisting of O, S, Se, NR³, CRR', SiRR', GeRR', and a single bond;

[0125] a metal M forms a direct bond to Ring A or Ring B;

[0126] M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au;

[0127] R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution;

[0128] R^A, R^B, R¹, R², R³, R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl,

cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

[0129] one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

[0130] the ligand L_A is optionally linked with other ligands to form a tridentate ligand or a ligand with a maximum possible denticity to which M can coordinate;

[0131] any two substituents may be joined or fused together to form a ring, provided that R^1 and R^2 are not joined to form a 6-membered aromatic ring when Y is a single bond; and

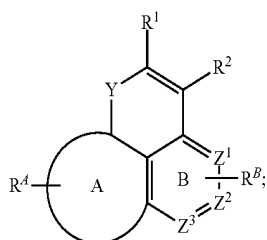
[0132] M is optionally coordinated to other ligands.

[0133] In some embodiments, the OLED has one or more characteristics selected from the group consisting of being flexible, being rollable, being foldable, being stretchable, and being curved. In some embodiments, the OLED is transparent or semi-transparent. In some embodiments, the OLED further comprises a layer comprising carbon nanotubes.

[0134] In some embodiments, the OLED further comprises a layer comprising a delayed fluorescent emitter. In some embodiments, the OLED comprises a RGB pixel arrangement or white plus color filter pixel arrangement. In some embodiments, the OLED is a mobile device, a hand held device, or a wearable device. In some embodiments, the OLED is a display panel having less than 10 inch diagonal or 50 square inch area. In some embodiments, the OLED is a display panel having at least 10 inch diagonal or 50 square inch area. In some embodiments, the OLED is a lighting panel.

[0135] An emissive region in an organic light emitting device is also disclosed. The emissive region comprising a compound comprising:

[0136] a first ligand L^A of Formula I



[0137] where,

[0138] Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

[0139] Z^1 , Z^2 , and Z^3 are each independently selected from the group comprising C and N;

[0140] Y is selected from the group consisting of O, S, Se, NR^3 , CRR' , $SiRR'$, $GeRR'$, and a single bond;

[0141] a metal M forms a direct bond to Ring A or Ring B;

[0142] M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au;

[0143] R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution;

[0144] R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl, cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

[0145] one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

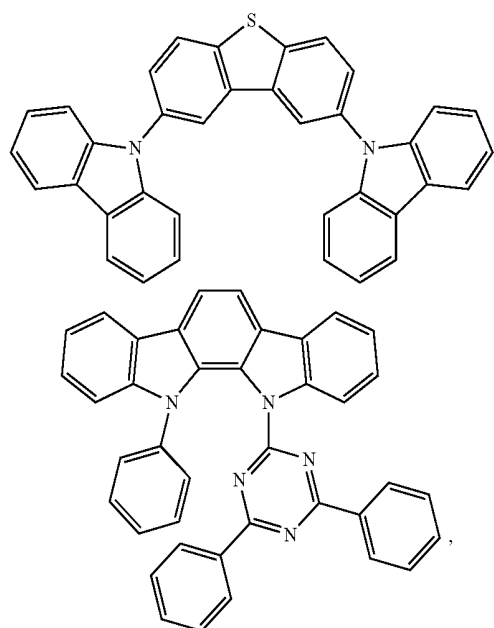
[0146] the ligand L_A is optionally linked with other ligands to form a tridentate ligand or a ligand with a maximum possible denticity to which M can coordinate;

[0147] any two substituents may be joined or fused together to form a ring, provided that R^1 and R^2 are not joined to form a 6-membered aromatic ring when Y is a single bond; and

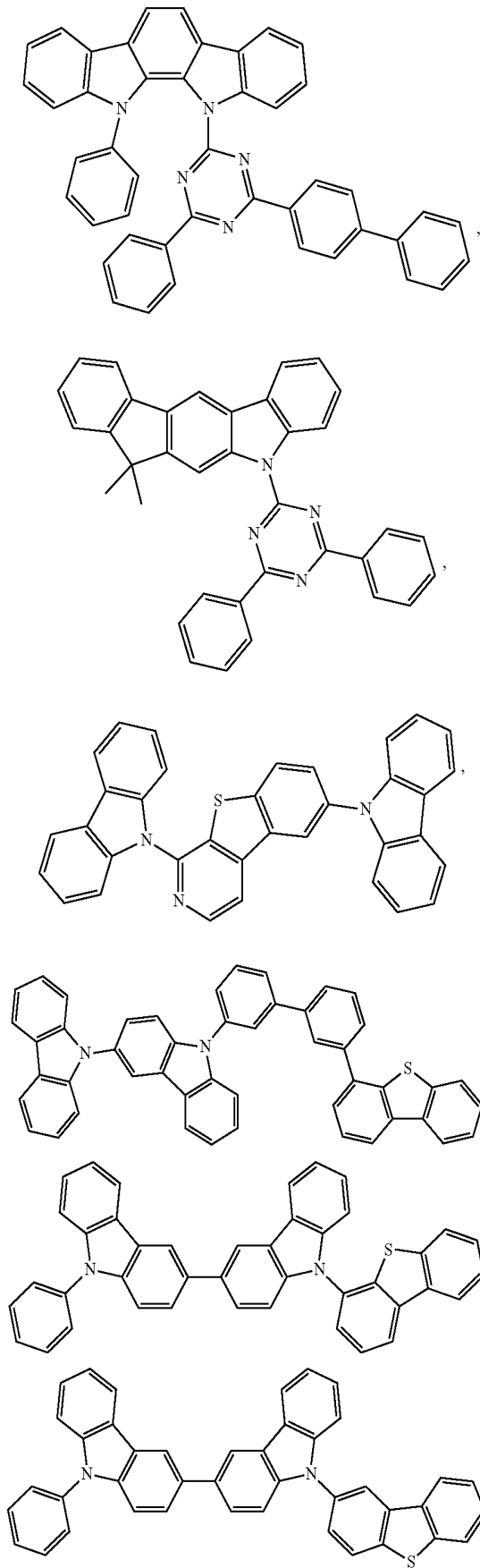
[0148] M is optionally coordinated to other ligands.

[0149] In some embodiments of the emissive region, the compound is an emissive dopant or a non-emissive dopant. In some embodiments of the emissive region, the emissive region further comprises a host, wherein the host comprises at least one group selected from the group consisting of metal complex, triphenylene, carbazole, dibenzothiophene, dibenzofuran, dibenzoselenophene, aza-triphenylene, aza-carbazole, aza-dibenzothiophene, aza-dibenzofuran, and aza-dibenzoselenophene.

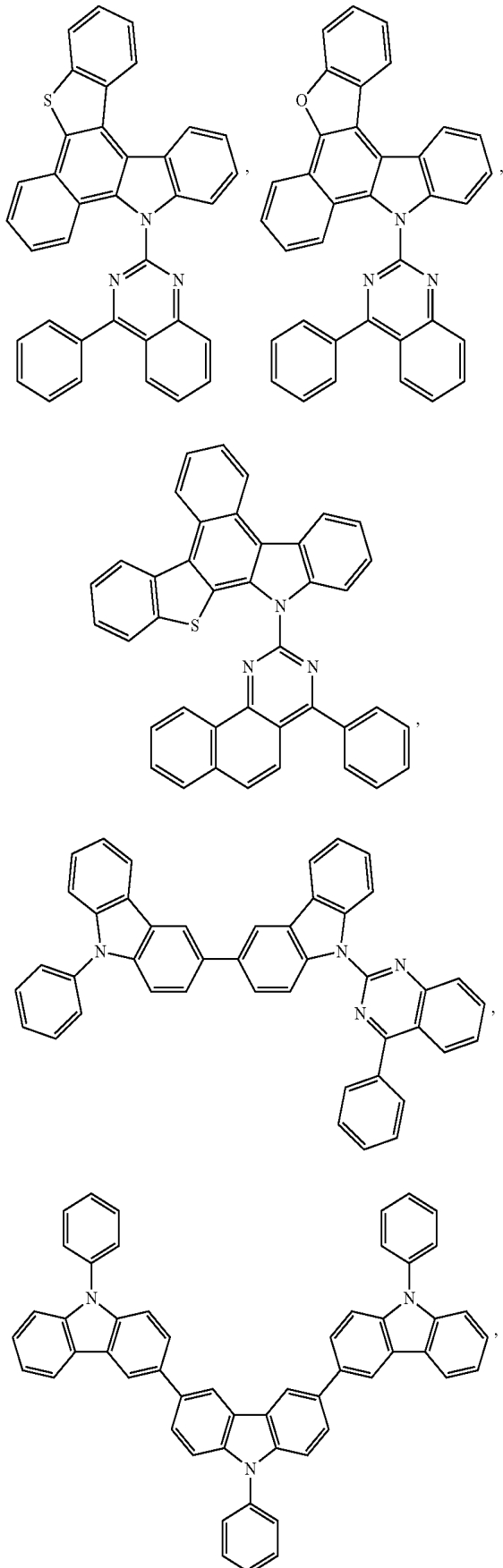
[0150] In some embodiments of the emissive region, the emissive region further comprises a host, wherein the host is selected from the group consisting of:



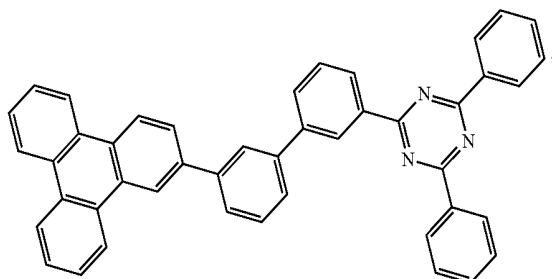
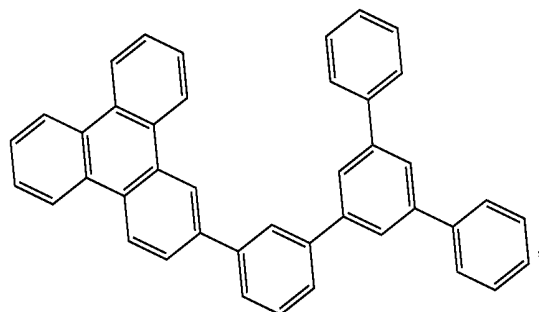
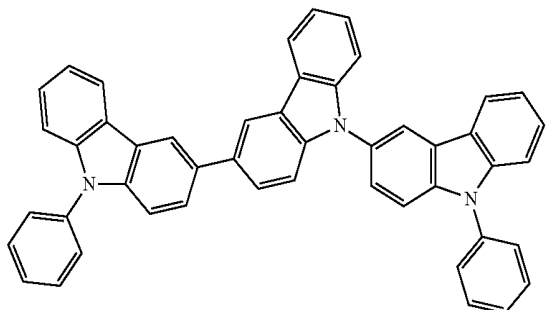
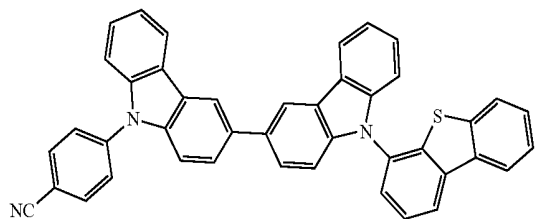
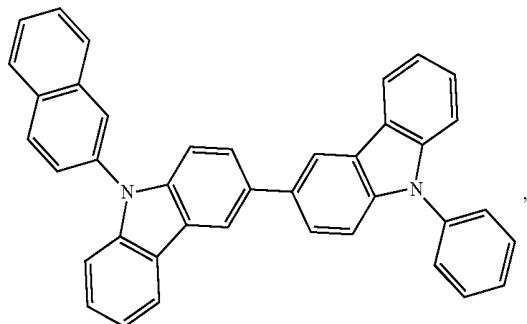
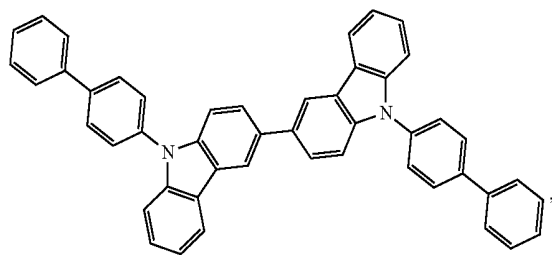
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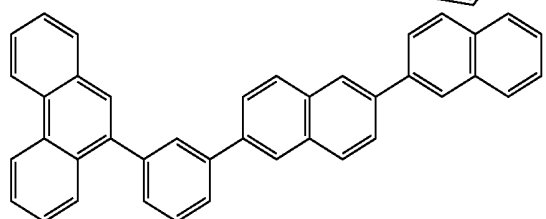
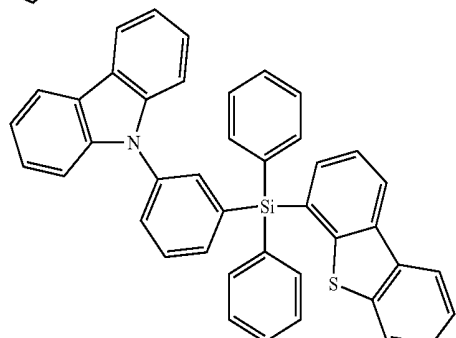
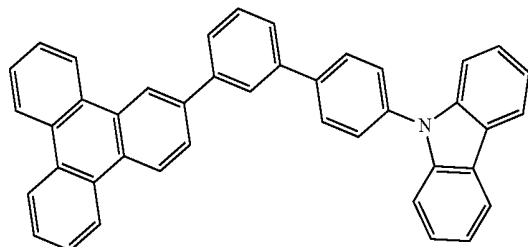
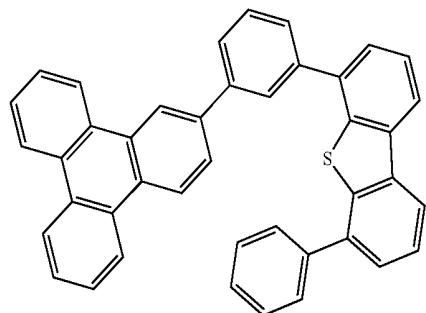
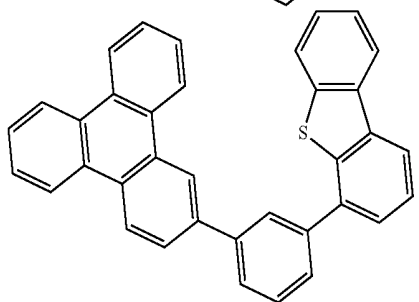
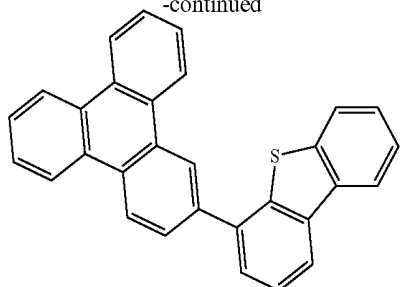
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and combinations thereof.

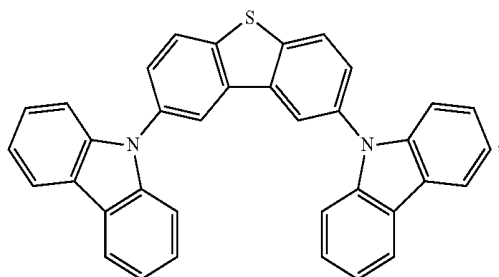
[0151] In some embodiments, the compound can be an emissive dopant. In some embodiments, the compound can produce emissions via phosphorescence, fluorescence, thermally activated delayed fluorescence, i.e., TADF (also referred to as E-type delayed fluorescence; see, e.g., U.S. application Ser. No. 15/700,352, which is hereby incorporated by reference in its entirety), triplet-triplet annihilation, or combinations of these processes. In some embodiments, the emissive dopant can be a racemic mixture, or can be enriched in one enantiomer.

[0152] According to another aspect, a formulation comprising the compound described herein is also disclosed.

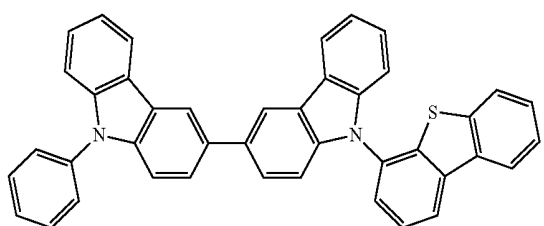
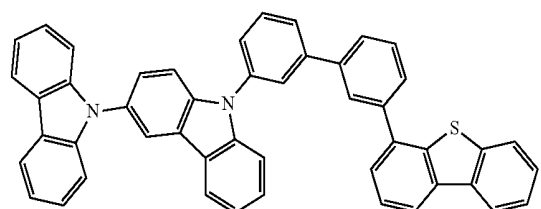
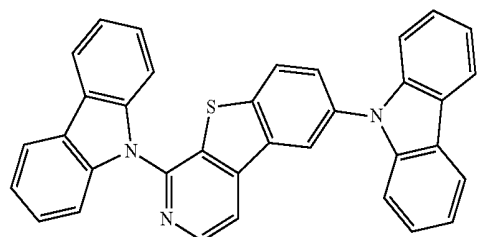
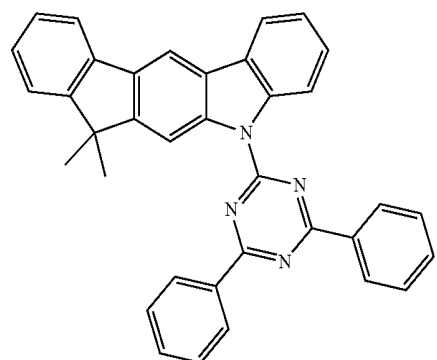
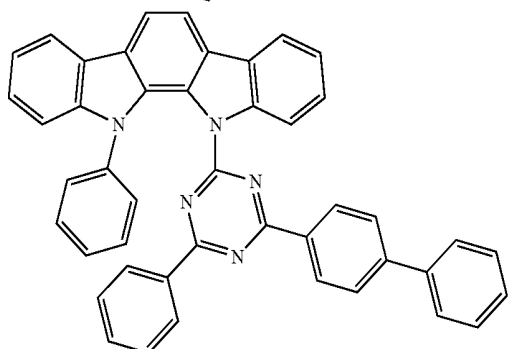
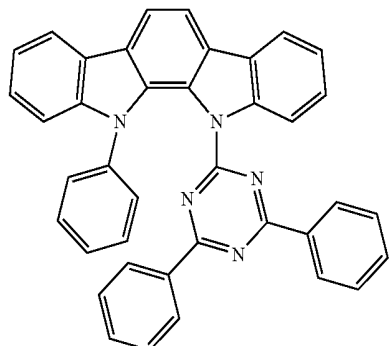
[0153] The OLED disclosed herein can be incorporated into one or more of a consumer product, an electronic component module, and a lighting panel. The organic layer can be an emissive layer and the compound can be an emissive dopant in some embodiments, while the compound can be a non-emissive dopant in other embodiments.

[0154] The organic layer can also include a host. In some embodiments, two or more hosts are preferred. In some embodiments, the hosts used maybe a) bipolar, b) electron transporting, c) hole transporting or d) wide band gap materials that play little role in charge transport. In some embodiments, the host can include a metal complex. The host can be a triphenylene containing benzo-fused thiophene or benzo-fused furan. Any substituent in the host can be an unfused substituent independently selected from the group consisting of C_nH_{2n+1} , OC_nH_{2n+1} , OAr_1 , $N(C_nH_{2n+1})_2$, $N(Ar_1)(Ar_2)$, $CH=CH-C_nH_{2n+1}$, $C\equiv C-C_nH_{2n+1}$, Ar_1 , Ar_1-Ar_2 , and $C_nH_{2n}-Ar_1$, or the host has no substitutions. In the preceding substituents n can range from 1 to 10; and Ar_1 and Ar_2 can be independently selected from the group consisting of benzene, biphenyl, naphthalene, triphenylene, carbazole, and heteroaromatic analogs thereof. The host can be an inorganic compound. For example a Zn containing inorganic material e.g. ZnS.

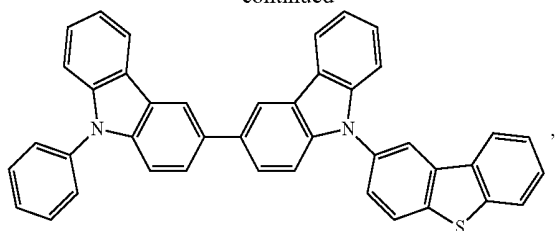
[0155] The host can be a compound comprising at least one chemical group selected from the group consisting of triphenylene, carbazole, dibenzothiophene, dibenzofuran, dibenzoselenophene, azatriphenylene, azacarbazole, aza-dibenzothiophene, aza-dibenzofuran, and aza-dibenzoselenophene. The host can include a metal complex. The host can be, but is not limited to, a specific compound selected from the group consisting of:



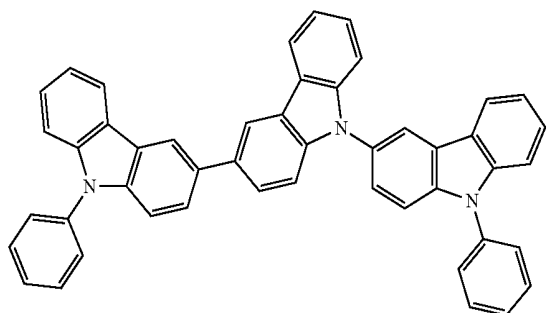
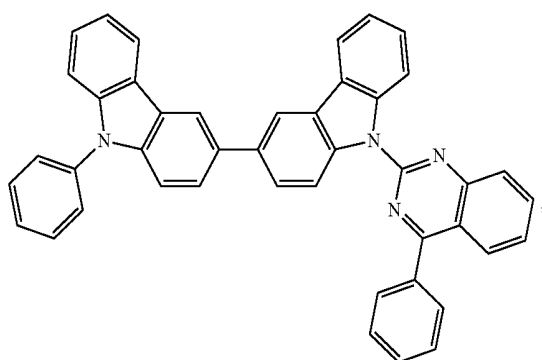
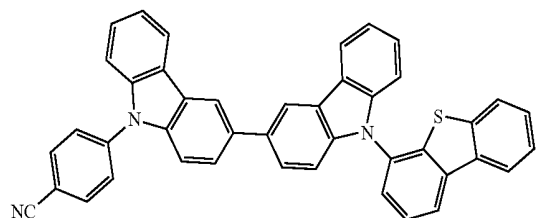
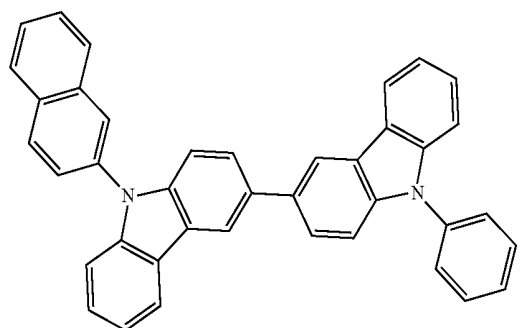
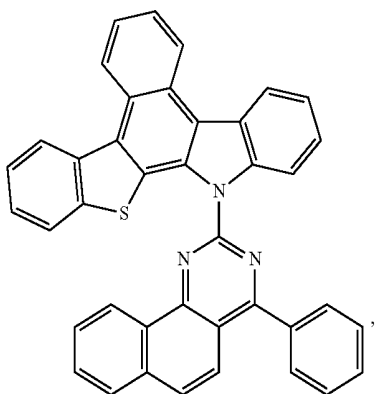
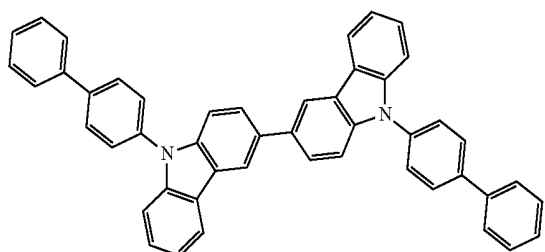
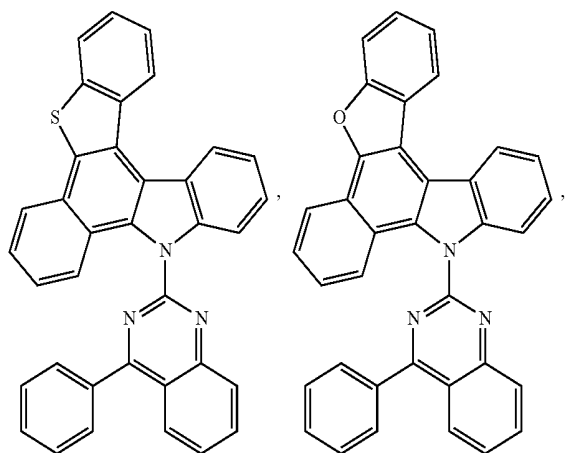
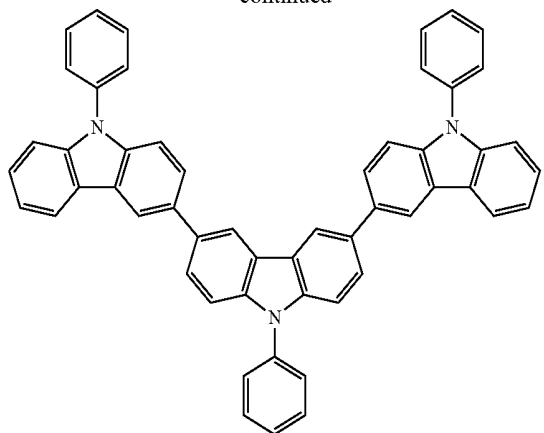
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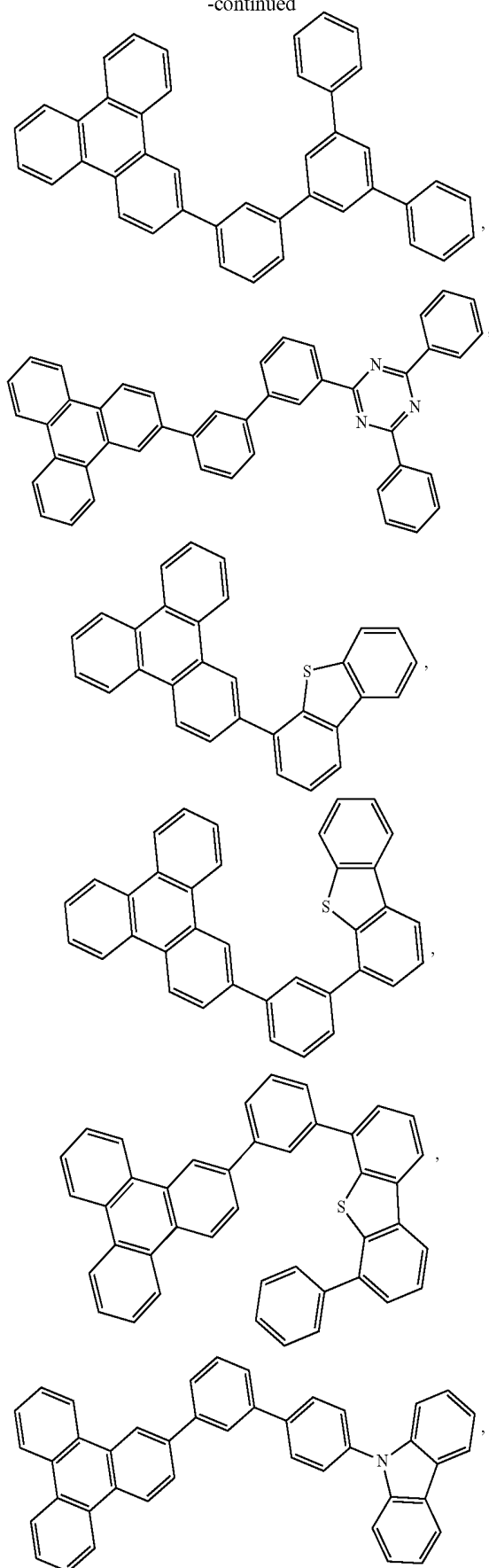
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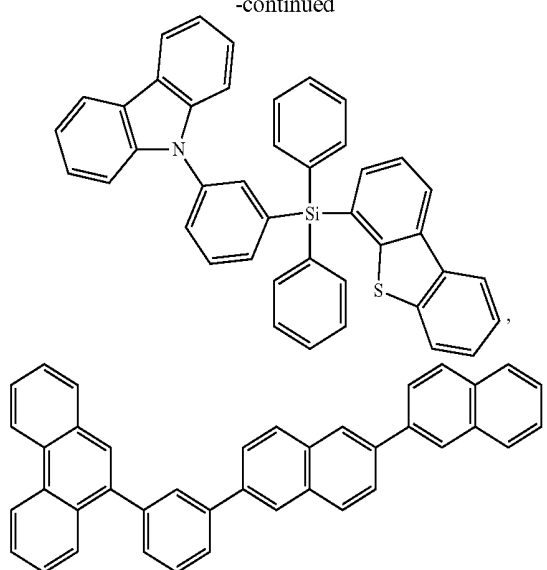
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and combinations thereof.

Additional information on possible hosts is provided below.

[0156] In yet another aspect of the present disclosure, a formulation that comprises the novel compound disclosed herein is described. The formulation can include one or more components selected from the group consisting of a solvent, a host, a hole injection material, hole transport material, electron blocking material, hole blocking material, and an electron transport material, disclosed herein.

Combination with Other Materials

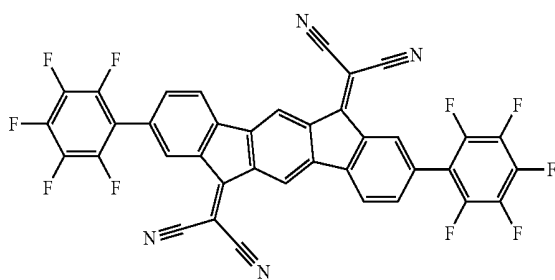
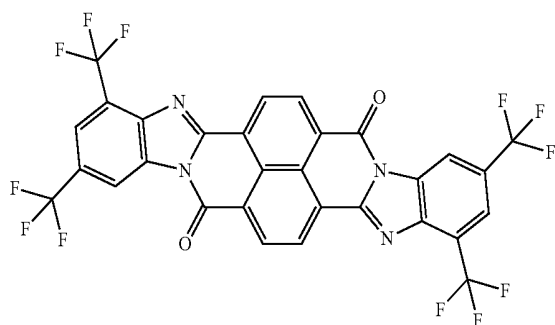
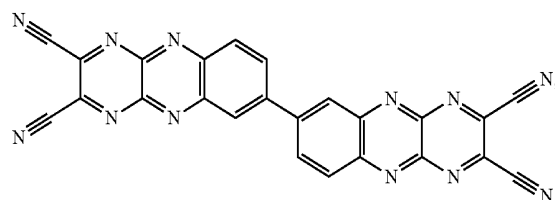
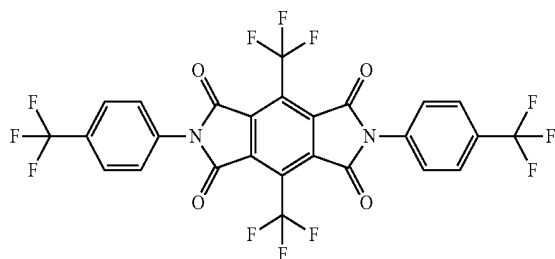
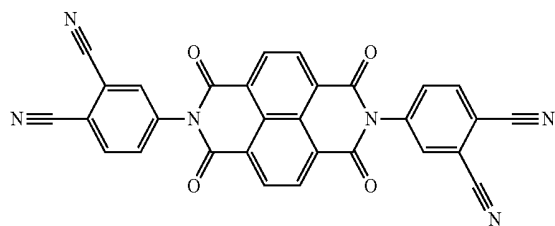
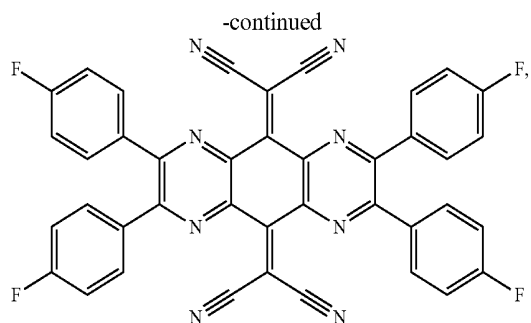
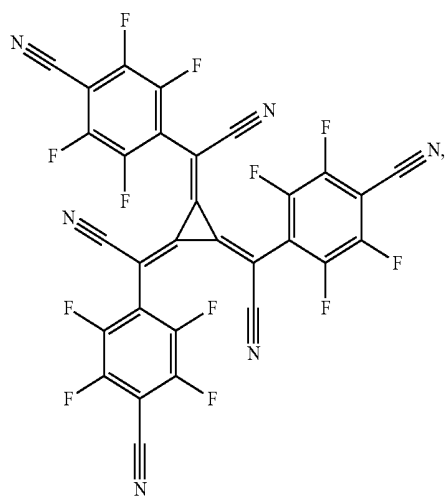
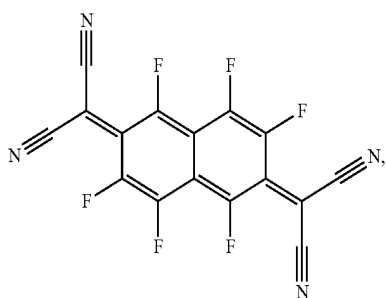
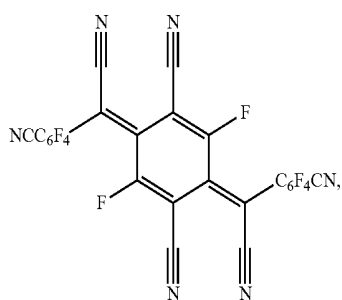
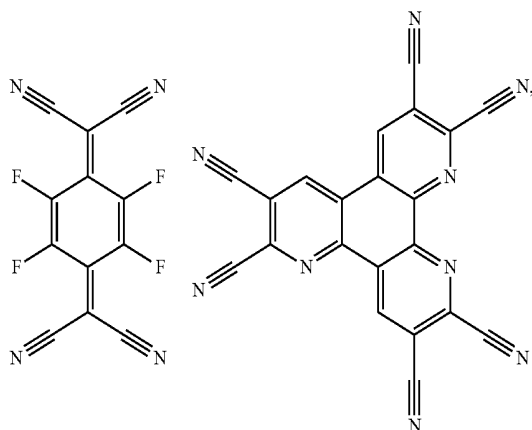
[0157] The materials described herein as useful for a particular layer in an organic light emitting device may be used in combination with a wide variety of other materials present in the device. For example, emissive dopants disclosed herein may be used in conjunction with a wide variety of hosts, transport layers, blocking layers, injection layers, electrodes and other layers that may be present. The materials described or referred to below are non-limiting examples of materials that may be useful in combination with the compounds disclosed herein, and one of skill in the art can readily consult the literature to identify other materials that may be useful in combination.

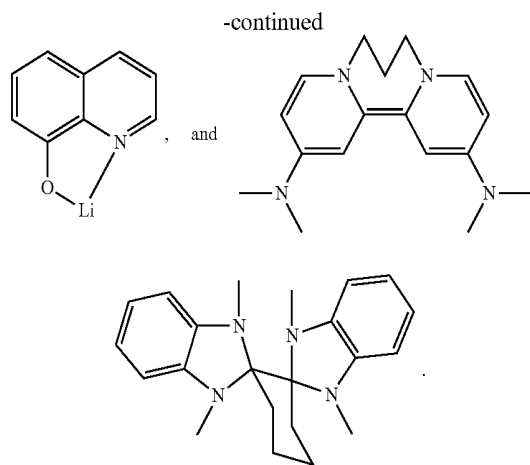
Conductivity Dopants:

[0158] A charge transport layer can be doped with conductivity dopants to substantially alter its density of charge carriers, which will in turn alter its conductivity. The conductivity is increased by generating charge carriers in the matrix material, and depending on the type of dopant, a change in the Fermi level of the semiconductor may also be achieved. Hole-transporting layer can be doped by p-type conductivity dopants and n-type conductivity dopants are used in the electron-transporting layer.

[0159] Non-limiting examples of the conductivity dopants that may be used in an OLED in combination with materials disclosed herein are exemplified below together with references that disclose those materials: EP01617493, EP01968131, EP2020694, EP2684932, US20050139810,

US20070160905, US20090167167, US2010288362,
WO06081780, WO2009003455, WO2009008277,
WO2009011327, WO2014009310, US2007252140,
US2015060804, US20150123047, and US2012146012.

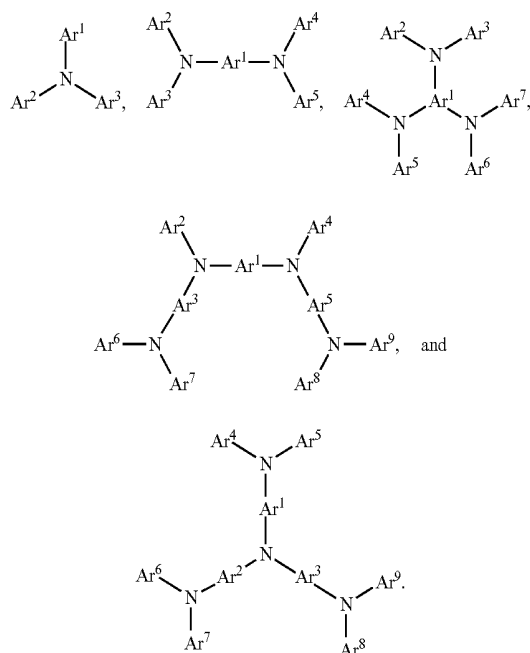




HIL/HTL:

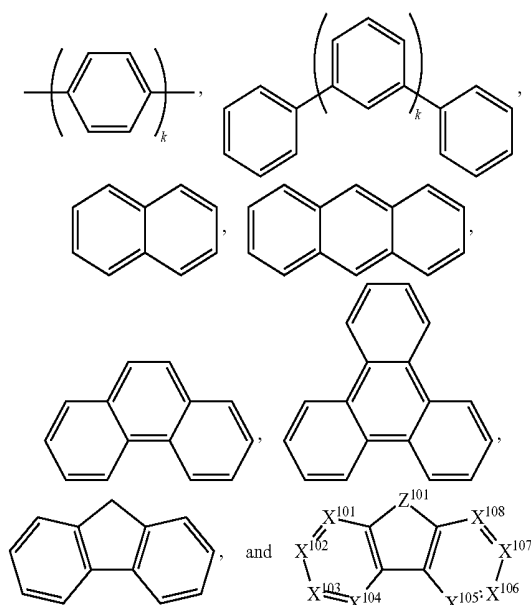
[0160] A hole injecting/transporting material to be used in the present invention is not particularly limited, and any compound may be used as long as the compound is typically used as a hole injecting/transporting material. Examples of the material include, but are not limited to: a phthalocyanine or porphyrin derivative; an aromatic amine derivative; an indolocarbazole derivative; a polymer containing fluorohydrocarbon; a polymer with conductivity dopants; a conducting polymer, such as PEDOT/PSS; a self-assembly monomer derived from compounds such as phosphonic acid and silane derivatives; a metal oxide derivative, such as MoO_3 ; a p-type semiconducting organic compound, such as 1,4,5,8,9,12-Hexaazatriphenylenehexacarbonitrile; a metal complex, and a cross-linkable compounds.

[0161] Examples of aromatic amine derivatives used in HIL or HTL include, but not limit to the following general structures:



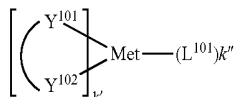
[0162] Each of Ar^1 to Ar^9 is selected from the group consisting of aromatic hydrocarbon cyclic compounds such as benzene, biphenyl, triphenyl, triphenylene, naphthalene, anthracene, phenalene, phenanthrene, fluorene, pyrene, chrysene, perylene, and azulene; the group consisting of aromatic heterocyclic compounds such as dibenzothio-
phene, dibenzofuran, dibenzoselenophene, furan, thiophene, benzofuran, benzothiophene, benzoselenophene, carbazole, indolocarbazole, pyridylindole, pyrrolodipyridine, pyrazole, imidazole, triazole, oxazole, thiazole, oxadiazole, oxatriazole, dioxazole, thiadiazole, pyridine, pyridazine, pyrimidine, pyrazine, triazine, oxazine, oxathiazine, oxadiazine, indole, benzimidazole, indazole, indoxazine, benzoxazole, benzisoxazole, benzothiazole, quinoline, isoquinoline, cinnoline, quinazoline, quinoxaline, naphthyridine, phthalazine, pteridine, xanthene, acridine, phenazine, phenothiazine, phenoxazine, benzofuopyridine, fuorodipyridine, benzothienopyridine, thienodipyridine, benzoselenophenopyridine, and selenophenodipyridine; and the group consisting of 2 to 10 cyclic structural units which are groups of the same type or different types selected from the aromatic hydrocarbon cyclic group and the aromatic heterocyclic group and are bonded to each other directly or via at least one of oxygen atom, nitrogen atom, sulfur atom, silicon atom, phosphorus atom, boron atom, chain structural unit and the aliphatic cyclic group. Each Ar may be unsubstituted or may be substituted by a substituent selected from the group consisting of deuterium, halogen, alkyl, cycloalkyl, heteroalkyl, heterocycloalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acids, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof.

[0163] In one aspect, Ar^1 to Ar^9 is independently selected from the group consisting of:



wherein k is an integer from 1 to 20; X^{101} to X^{108} is C (including CH) or N; Z^{101} is NAr^1 , O, or S; has the same group defined above.

[0164] Examples of metal complexes used in HIL or HTL include, but are not limited to the following general formula:

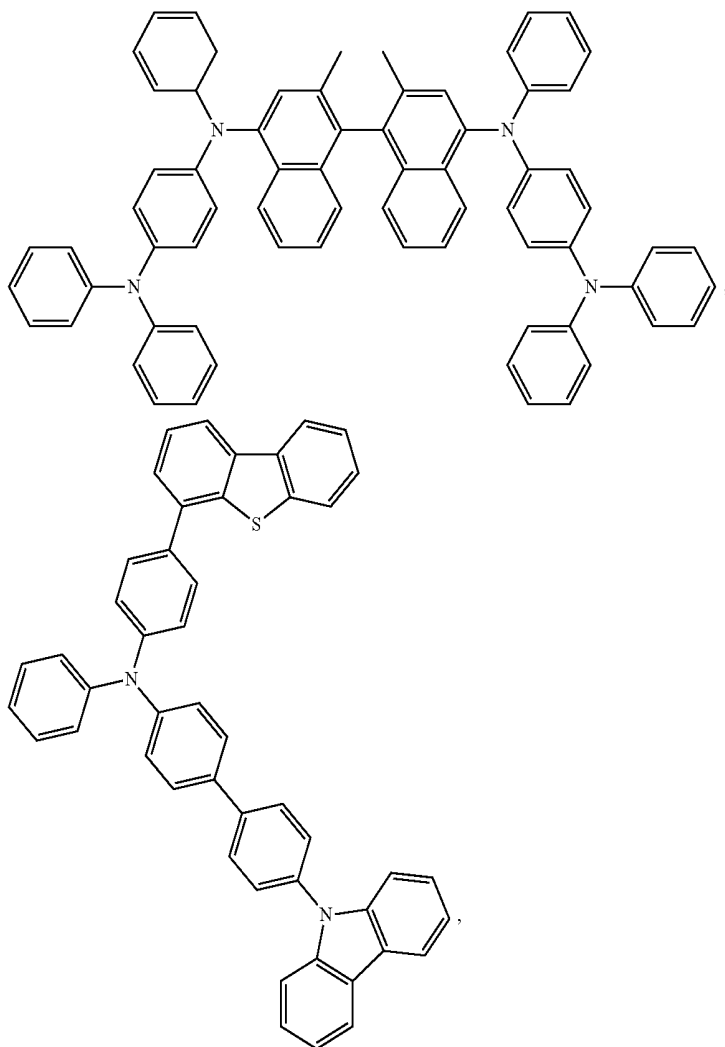


wherein Met is a metal, which can have an atomic weight greater than 40; (Y^{101} - Y^{102}) is a bidentate ligand, Y^{101} and Y^{102} are independently selected from C, N, O, P, and S; L^{101} is an ancillary ligand; k' is an integer value from 1 to the maximum number of ligands that may be attached to the metal; and $k'+k''$ is the maximum number of ligands that may be attached to the metal.

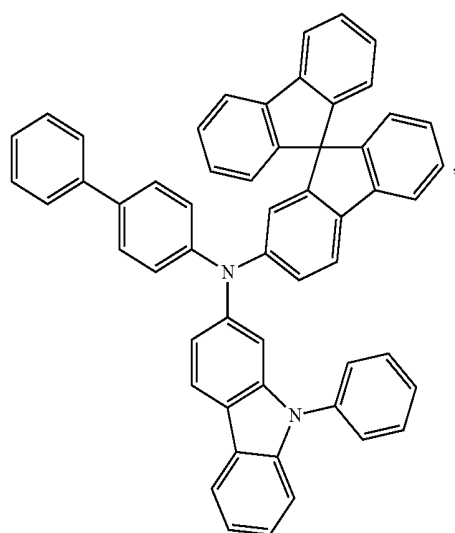
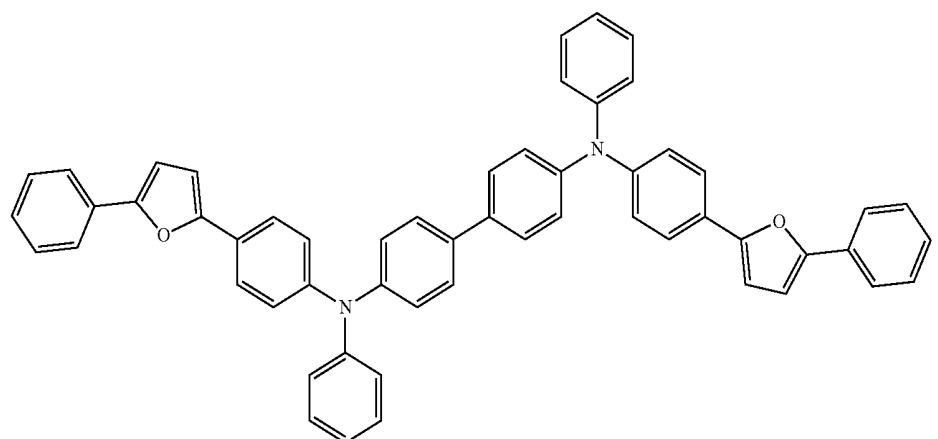
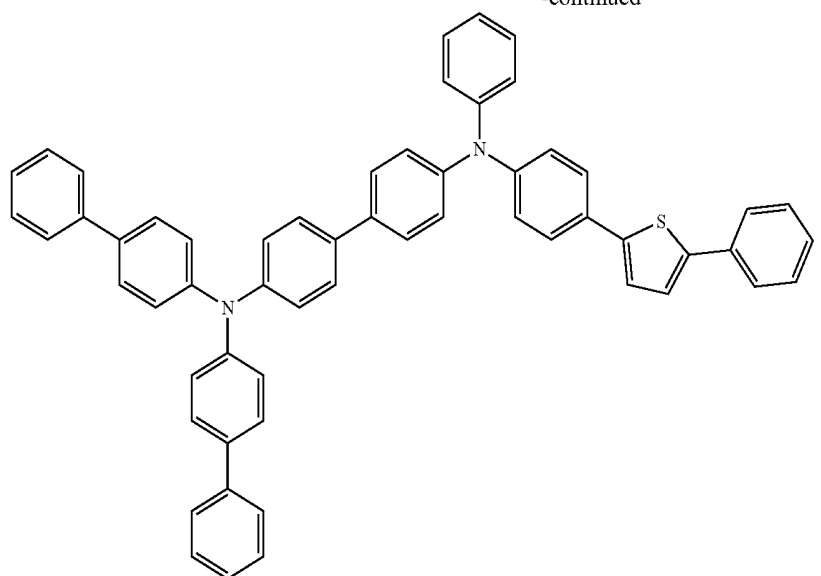
[0165] In one aspect, (Y^{101} - Y^{102}) is a 2-phenylpyridine derivative. In another aspect, (Y^{101} - Y^{102}) is a carbene ligand. In another aspect, Met is selected from Ir, Pt, Os, and Zn. In a further aspect, the metal complex has a smallest oxidation potential in solution vs. Fc^+/Fc couple less than about 0.6 V.

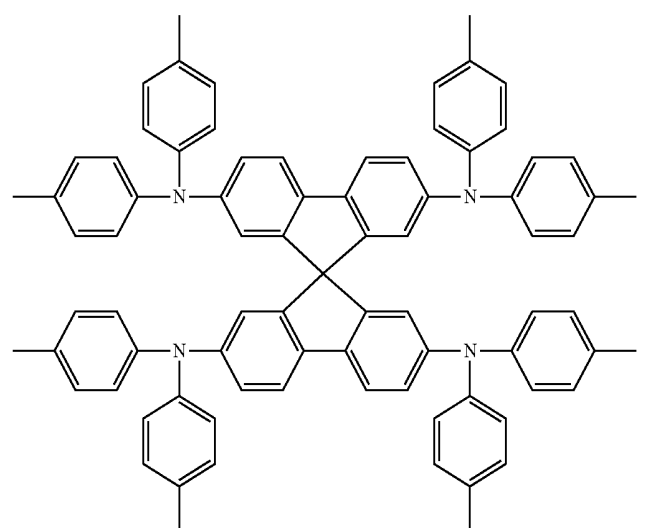
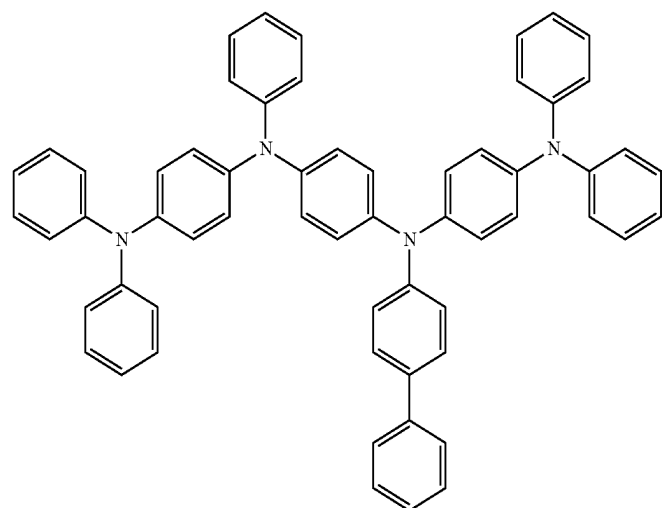
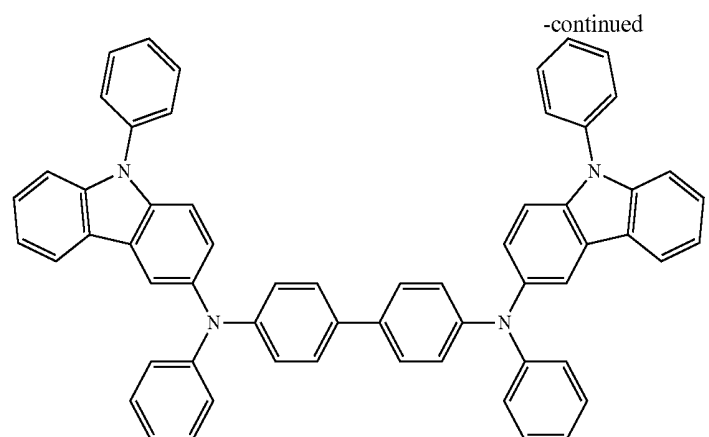
[0166] Non-limiting examples of the HIL and HTL materials that may be used in an OLED in combination with materials disclosed herein are exemplified below together

with references that disclose those materials: CN102702075, DE102012005215, EP01624500, EP01698613, EP01806334, EP01930964, EP01972613, EP01997799, EP02011790, EP02055700, EP02055701, EP1725079, EP2085382, EP2660300, EP650955, JP07-073529, JP2005112765, JP2007091719, JP2008021687, JP2014-009196, KR20110088898, KR20130077473, TW201139402, U.S. Ser. No. 06/517,957, US20020158242, US20030162053, US20050123751, US20060182993, US20060240279, US20070145888, US20070181874, US20070278938, US20080014464, US20080091025, US20080106190, US20080124572, US20080145707, US20080220265, US20080233434, US20080303417, US2008107919, US20090115320, US20090167161, US2009066235, US2011007385, US20110163302, US2011240968, US2011278551, US2012205642, US2013241401, US20140117329, US2014183517, U.S. Pat. Nos. 5,061,569, 5,639,914, WO05075451, WO07125714, WO08023550, WO08023759, WO2009145016, WO2010061824, WO2011075644, WO2012177006, WO2013018530, WO2013039073, WO2013087142, WO2013118812, WO2013120577, WO2013157367, WO2013175747, WO2014002873, WO2014015935, WO2014015937, WO2014030872, WO2014030921, WO2014034791, WO2014104514, WO2014157018.

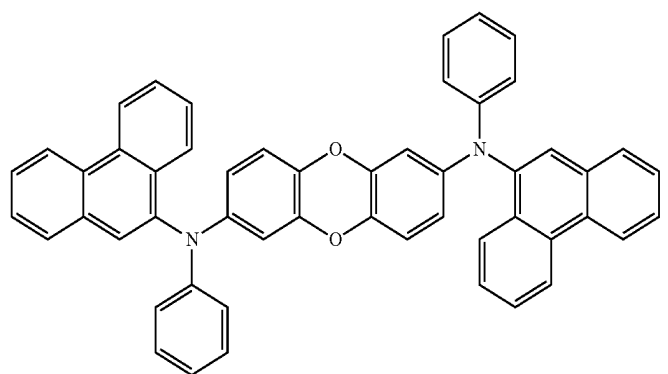
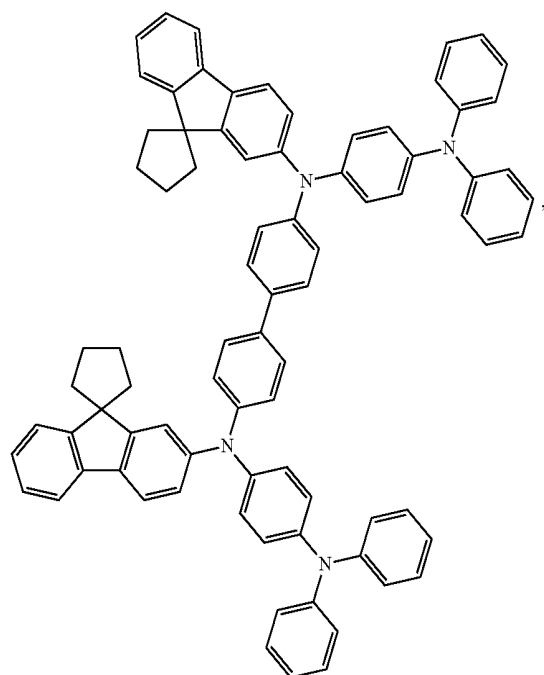
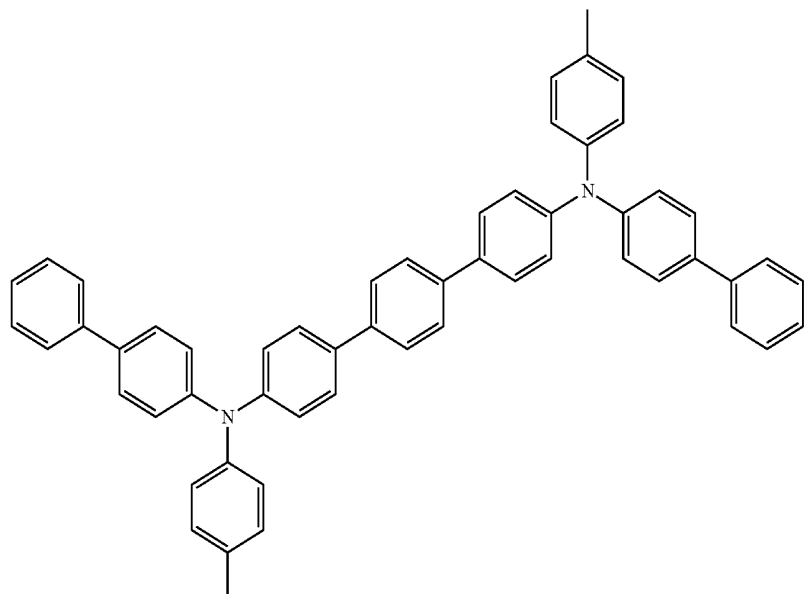


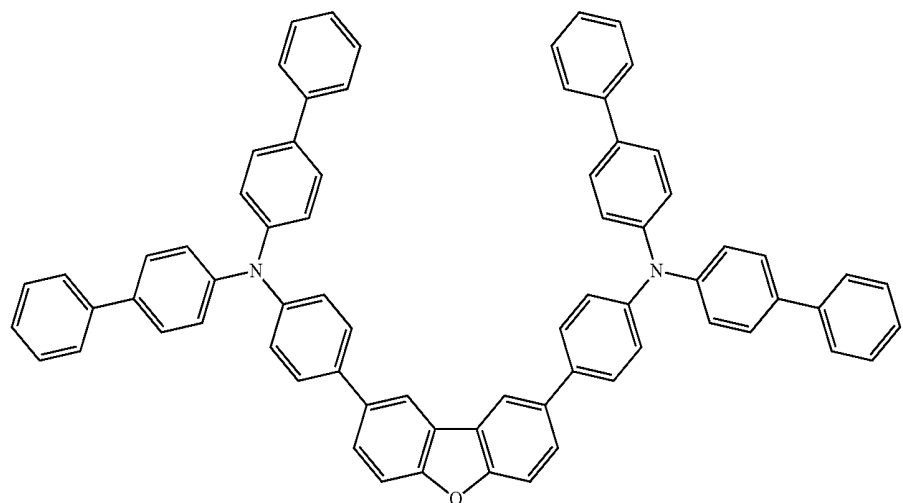
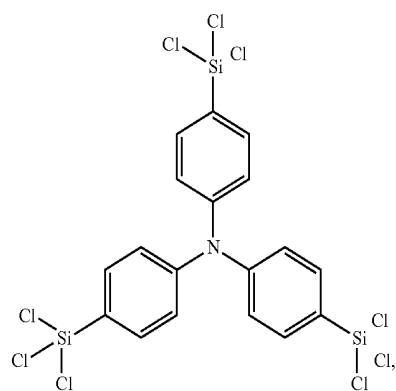
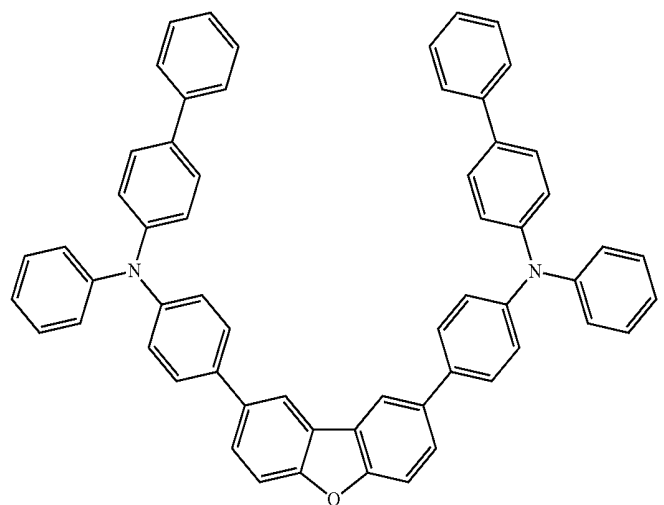
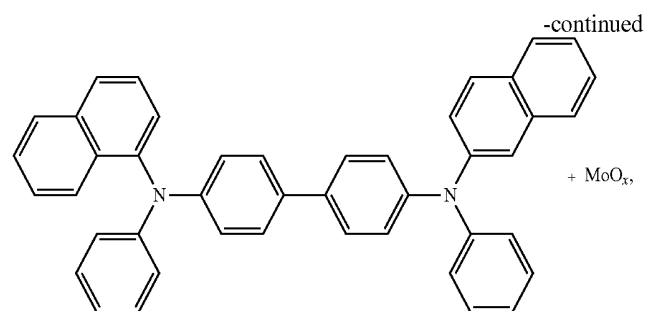
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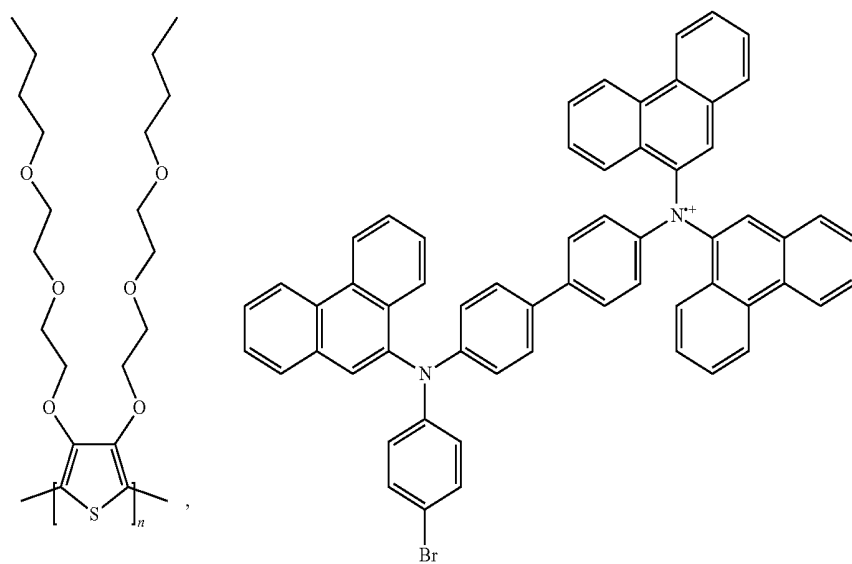
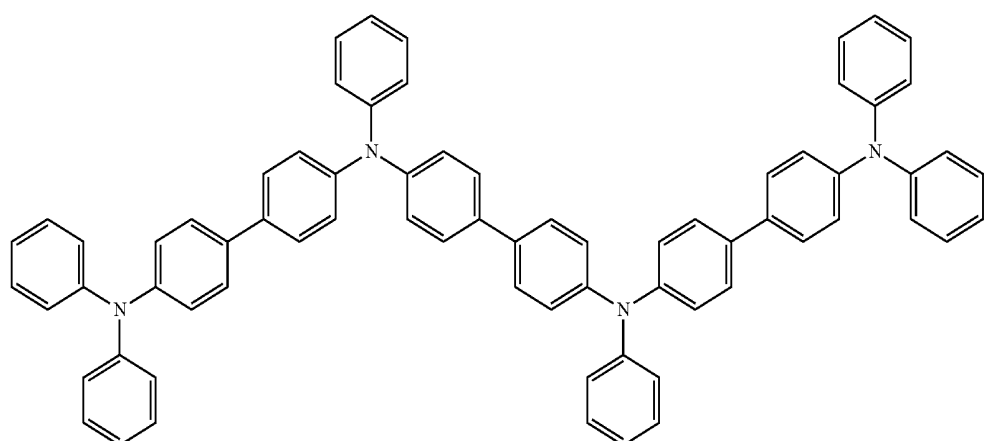
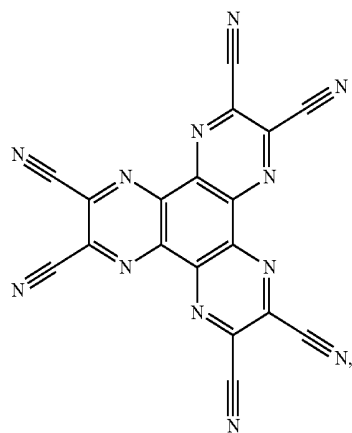


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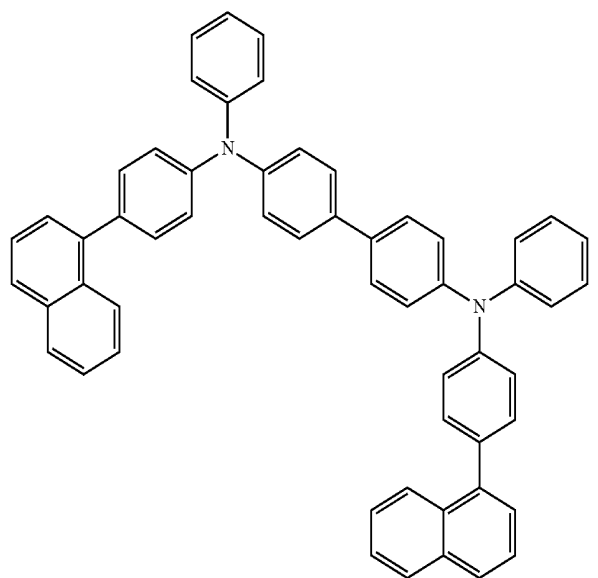
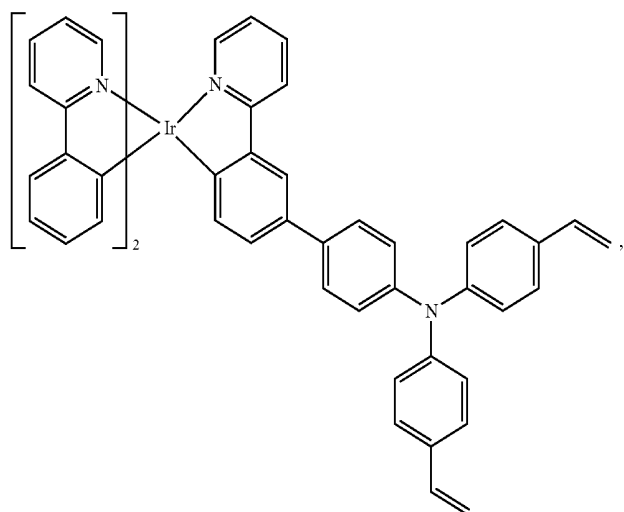
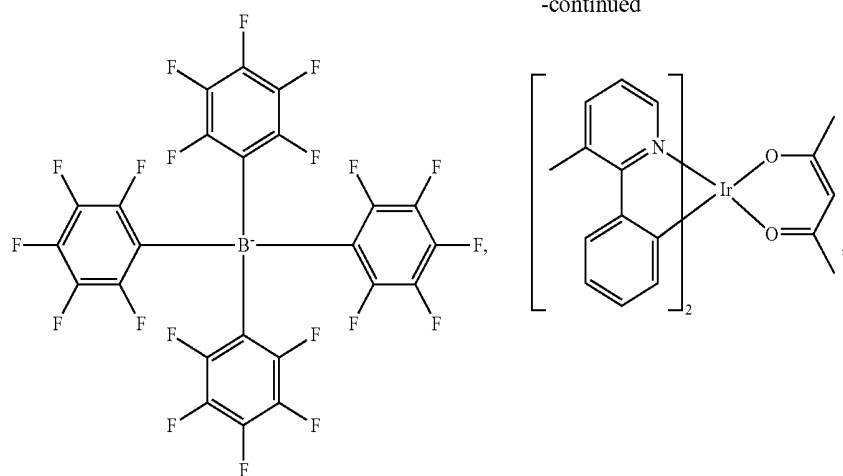




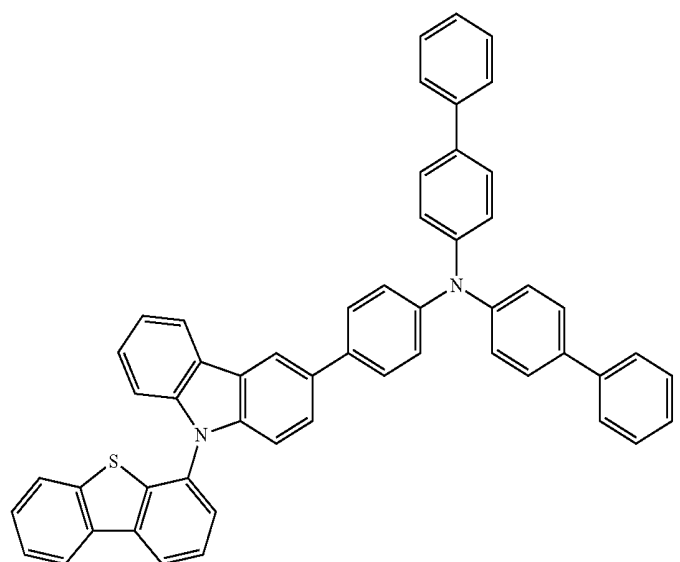
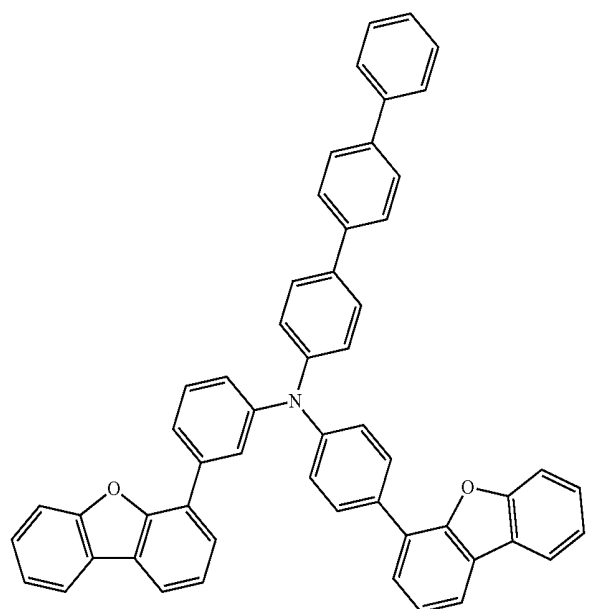
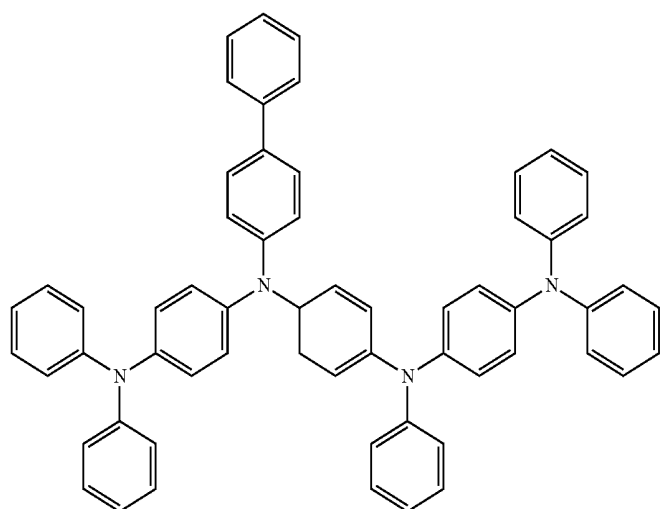
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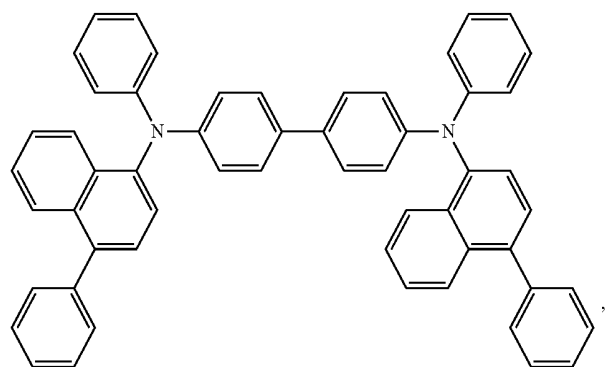
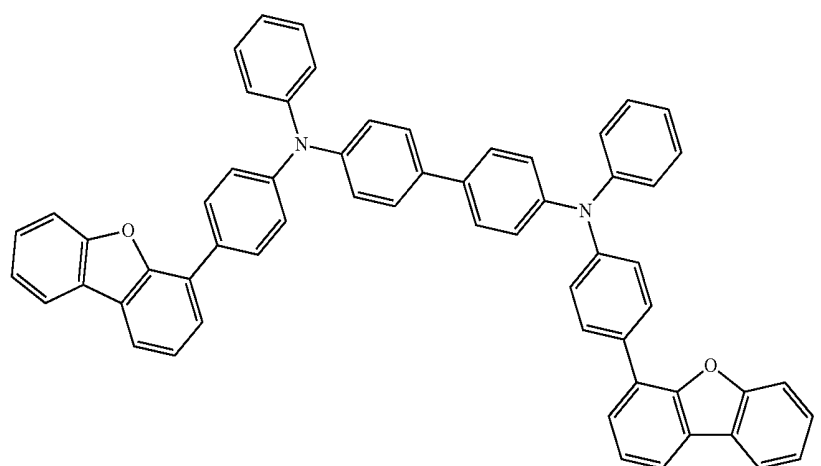
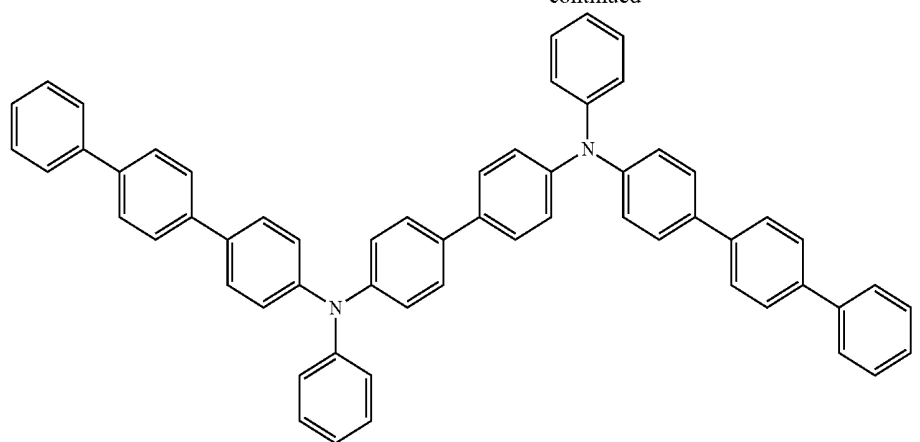
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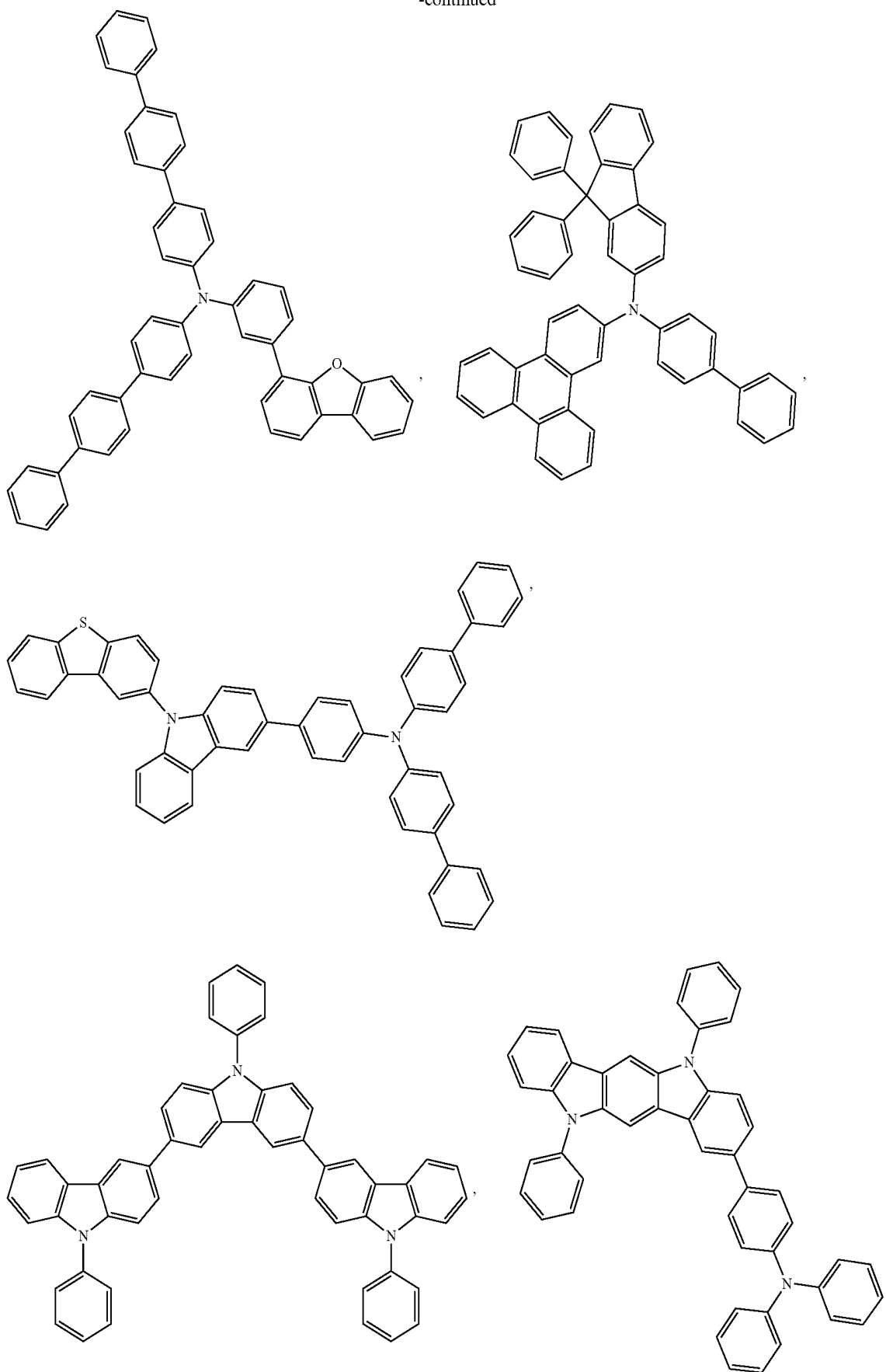
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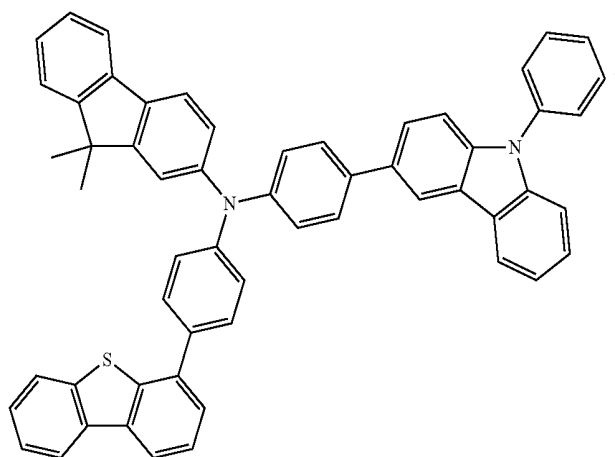
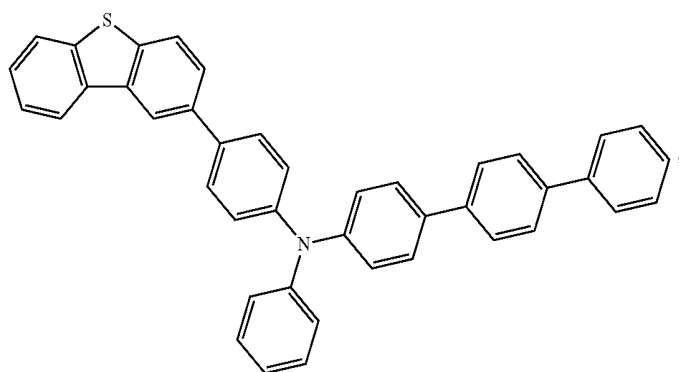
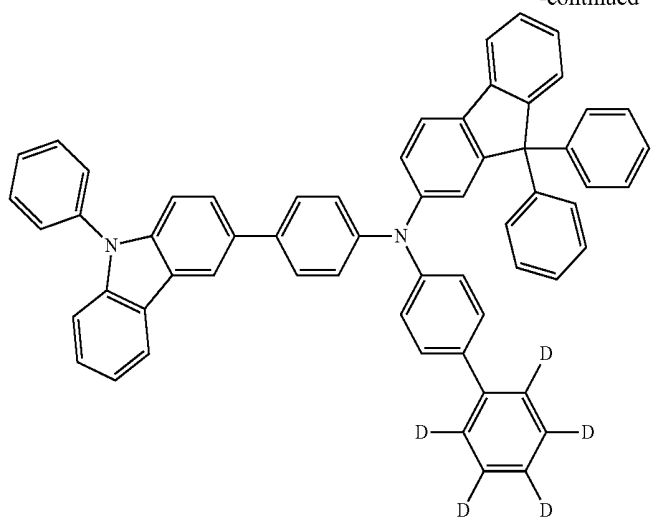
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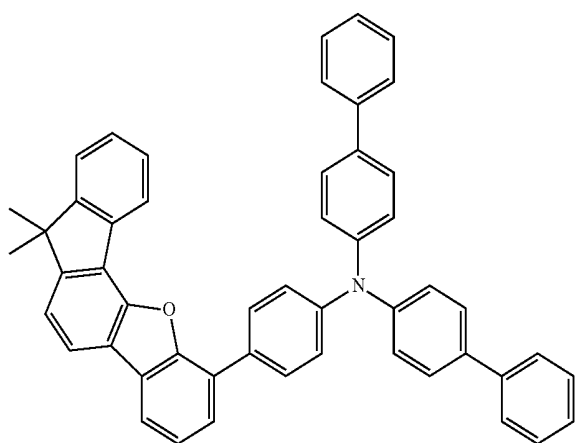
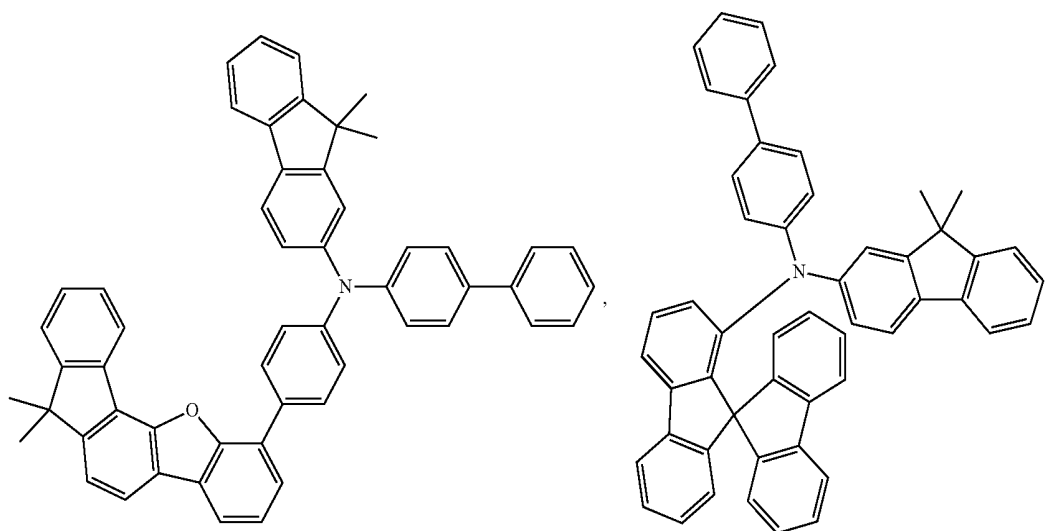
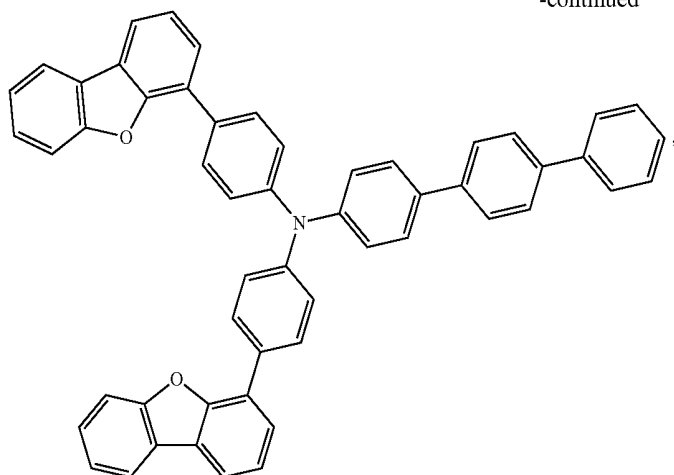
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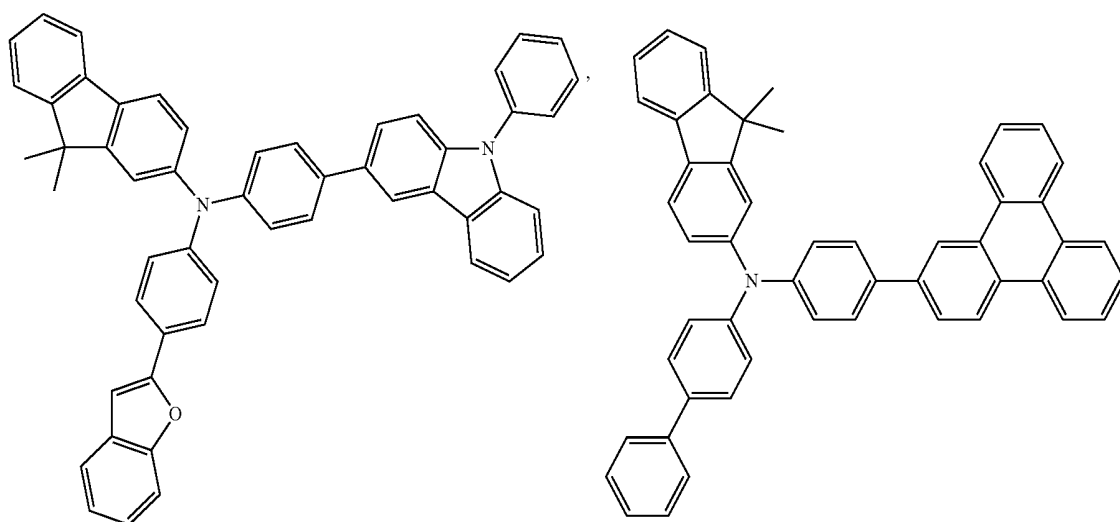
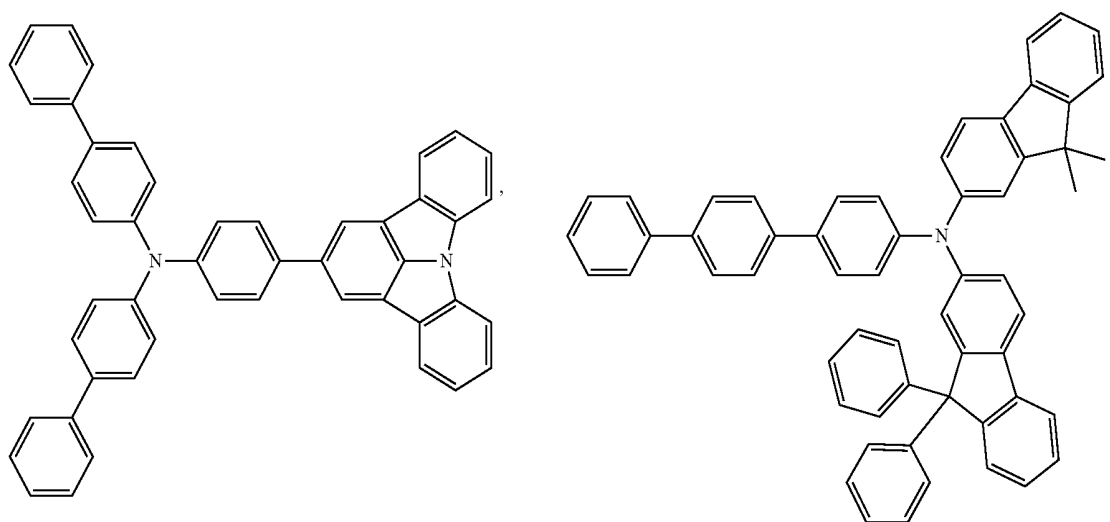
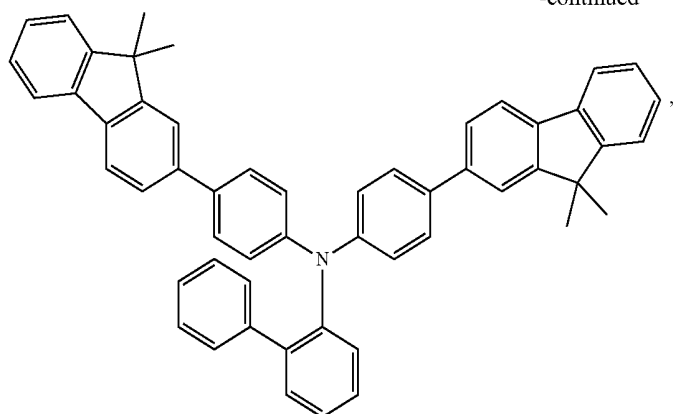
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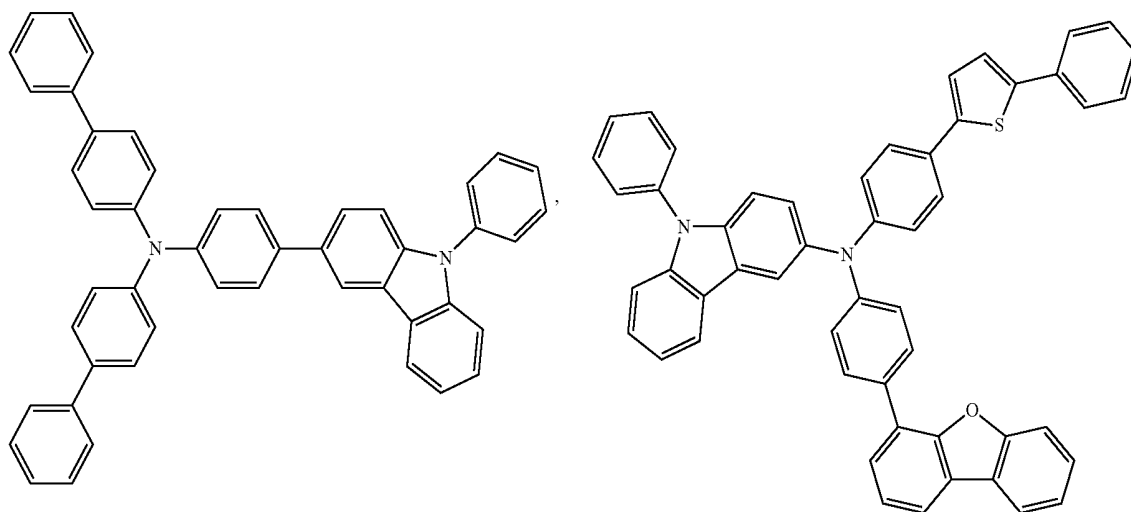
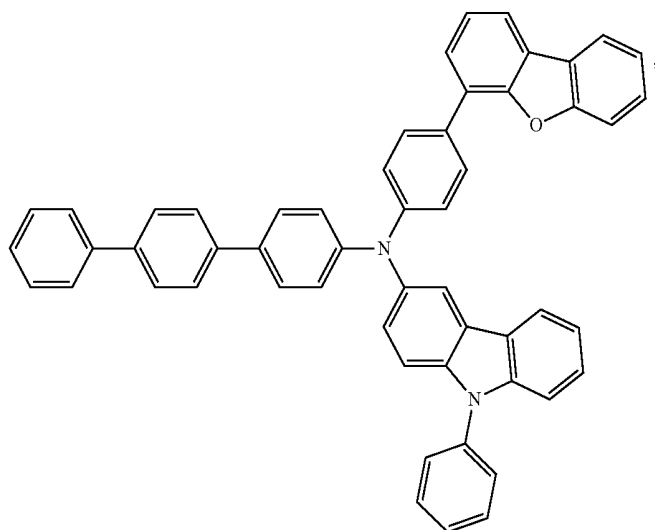
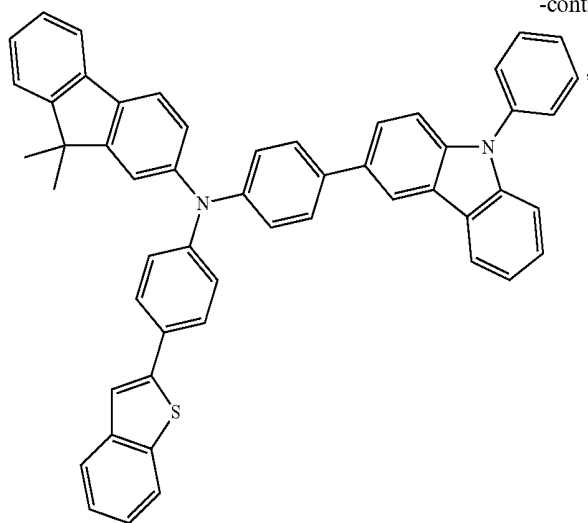
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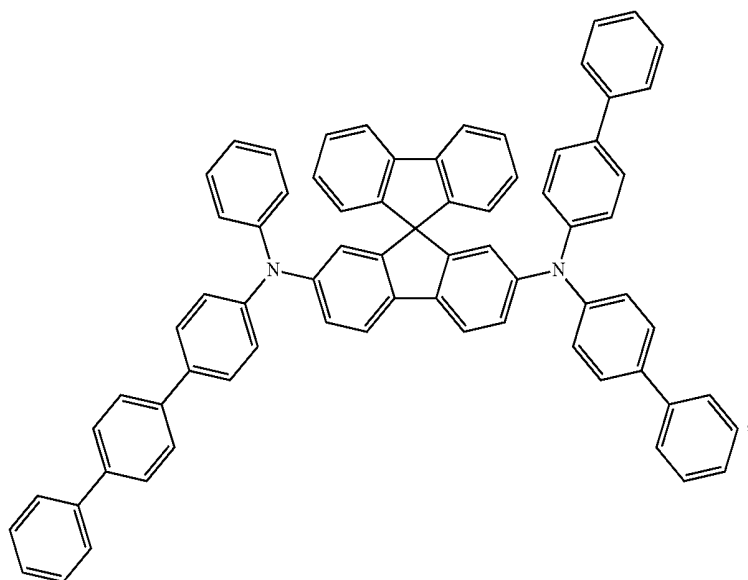
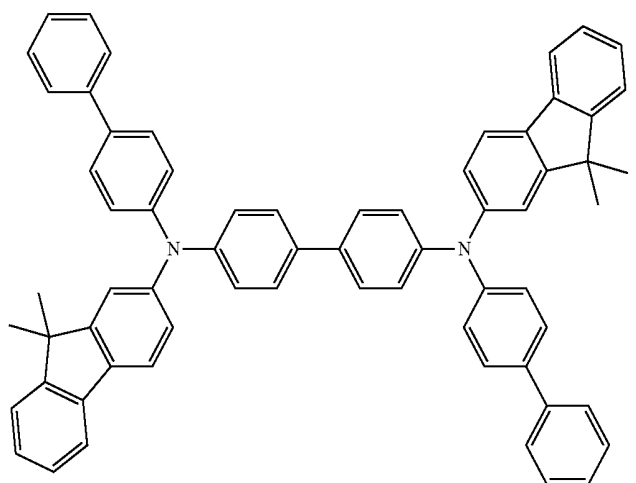
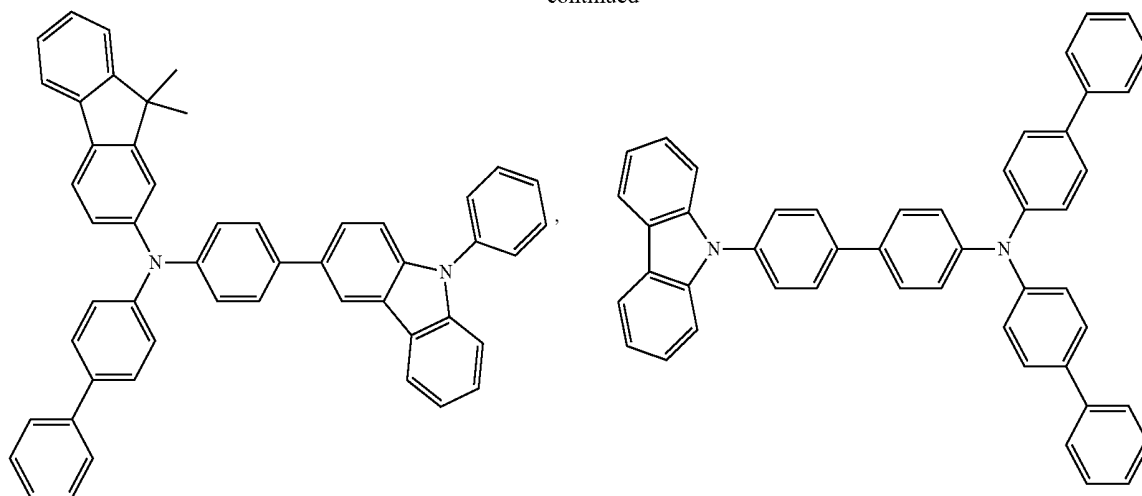
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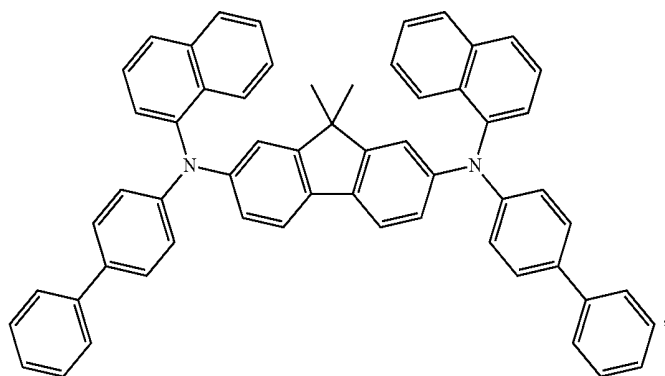
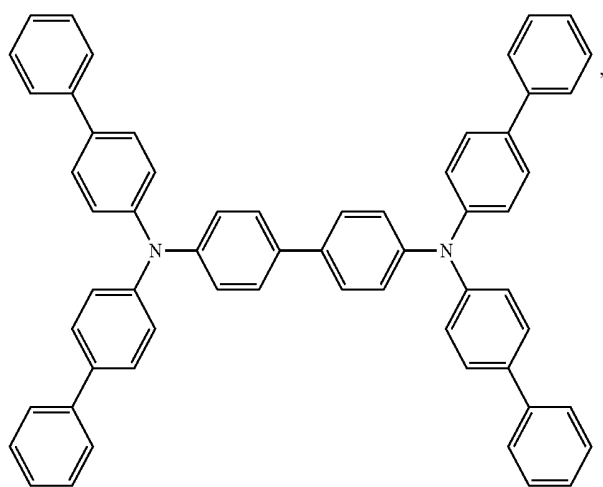
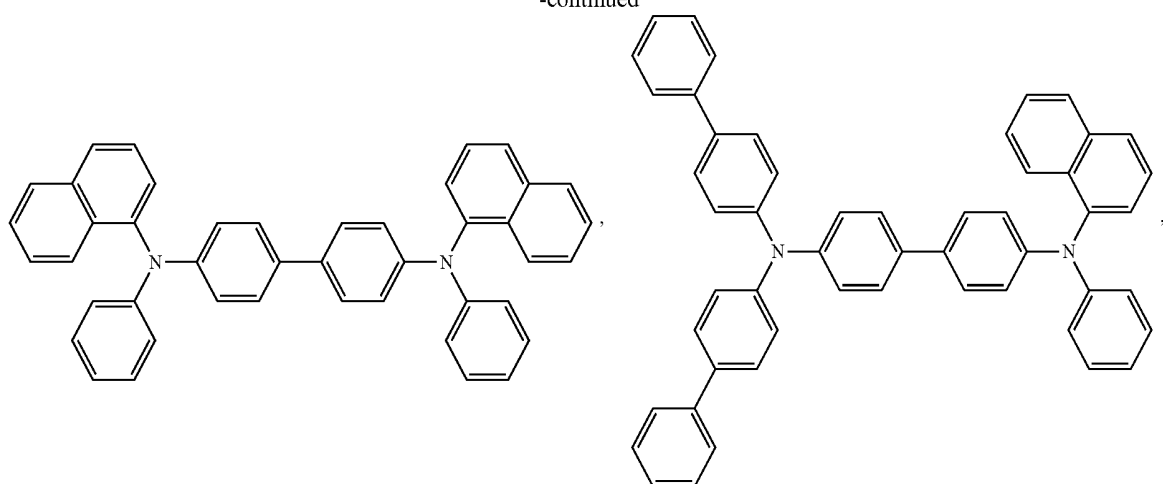
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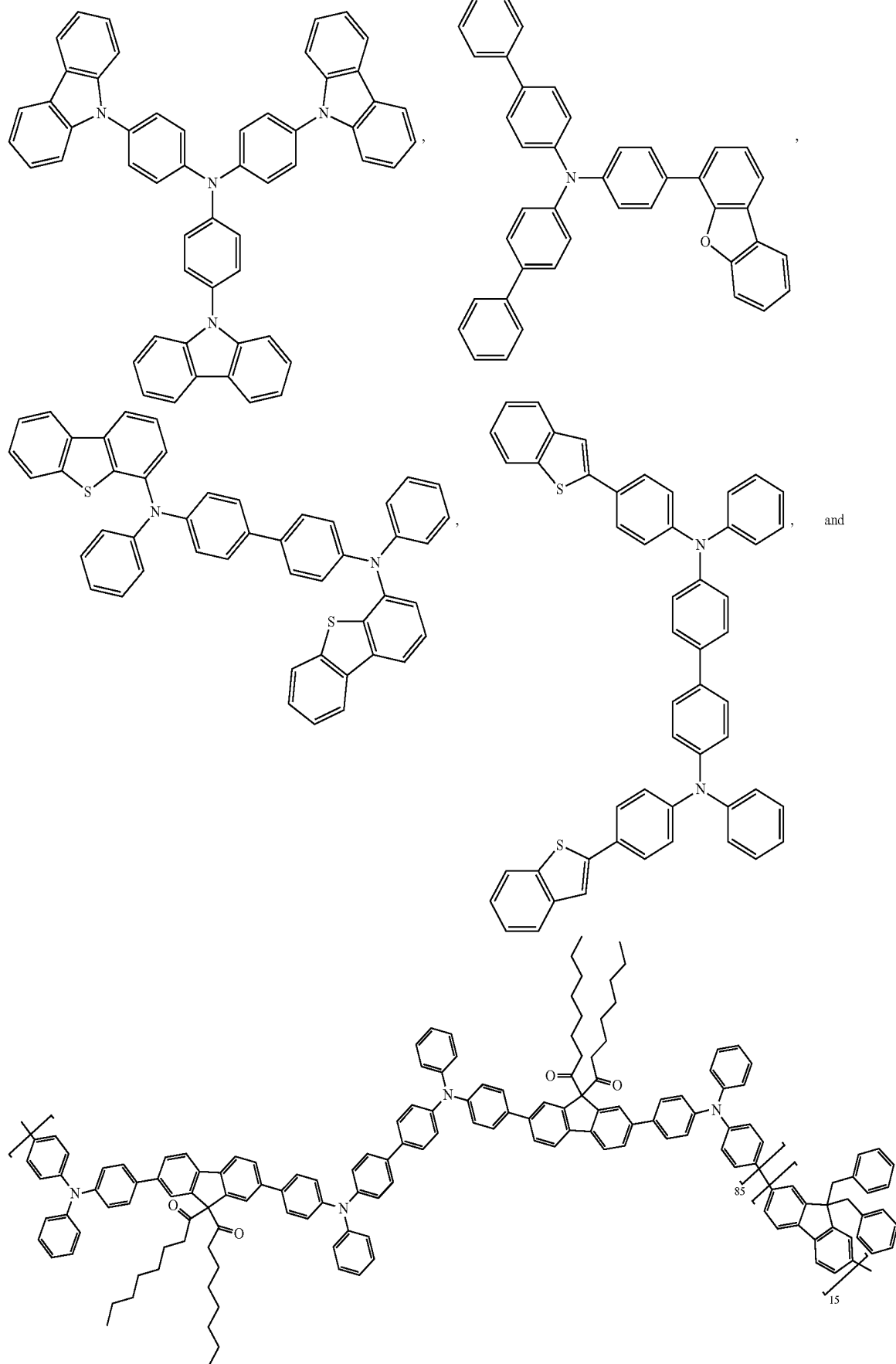
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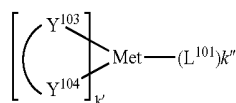
EBL:

[0167] An electron blocking layer (EBL) may be used to reduce the number of electrons and/or excitons that leave the emissive layer. The presence of such a blocking layer in a device may result in substantially higher efficiencies, and/or longer lifetime, as compared to a similar device lacking a blocking layer. Also, a blocking layer may be used to confine emission to a desired region of an OLED. In some embodiments, the EBL material has a higher LUMO (closer to the vacuum level) and/or higher triplet energy than the emitter closest to the EBL interface. In some embodiments, the EBL material has a higher LUMO (closer to the vacuum level) and/or higher triplet energy than one or more of the hosts closest to the EBL interface. In one aspect, the compound used in EBL contains the same molecule or the same functional groups used as one of the hosts described below.

Host:

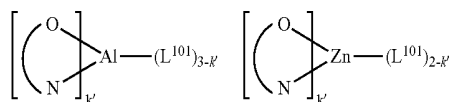
[0168] The light emitting layer of the organic EL device of the present invention preferably contains at least a metal complex as light emitting material, and may contain a host material using the metal complex as a dopant material. Examples of the host material are not particularly limited, and any metal complexes or organic compounds may be used as long as the triplet energy of the host is larger than that of the dopant. Any host material may be used with any dopant so long as the triplet criteria is satisfied.

[0169] Examples of metal complexes used as host are preferred to have the following general formula:



wherein Met is a metal; $(Y^{103}-Y^{104})$ is a bidentate ligand, Y^{103} and Y^{104} are independently selected from C, N, O, P, and S; L^{101} is another ligand; k' is an integer value from 1 to the maximum number of ligands that may be attached to the metal; and $k'+k''$ is the maximum number of ligands that may be attached to the metal.

[0170] In one aspect, the metal complexes are:



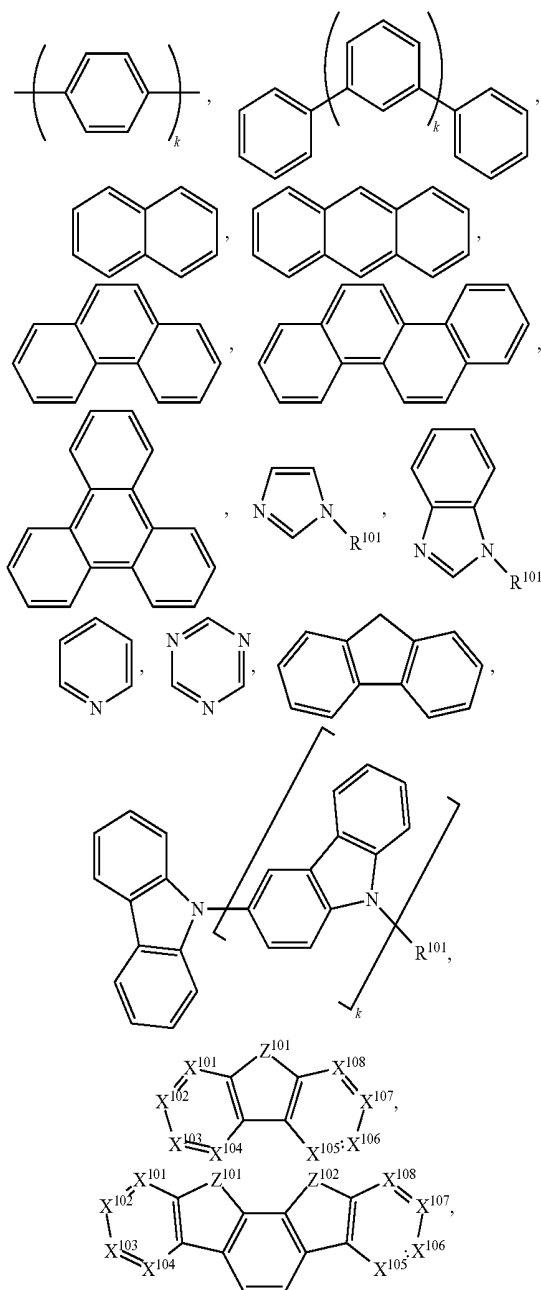
wherein $(O-N)$ is a bidentate ligand, having metal coordinated to atoms O and N.

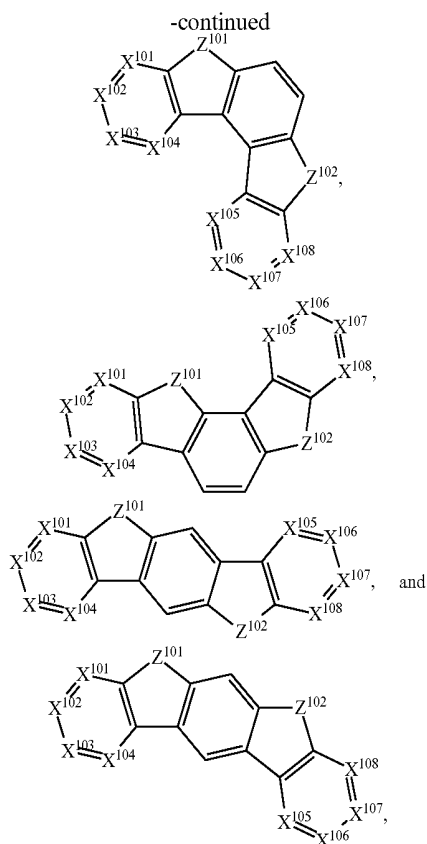
[0171] In another aspect, Met is selected from Ir and Pt. In a further aspect, $(Y^{103}-Y^{104})$ is a carbene ligand.

[0172] In one aspect, the host compound contains at least one of the following groups selected from the group consisting of aromatic hydrocarbon cyclic compounds such as benzene, biphenyl, triphenyl, triphenylene, tetraphenylene, naphthalene, anthracene, phenalene, phenanthrene, fluorene, pyrene, chrysene, perylene, and azulene; the group consisting of aromatic heterocyclic compounds such as dibenzothiophene, dibenzofuran, dibenzoselenophene, furan, thiophene, benzofuran, benzothiophene, benzoselenophene, carbazole, indolocarbazole, pyridylindole, pyrrolodipyridine, pyrazole, imidazole, triazole, oxazole, thiazole, oxadiazole, oxatriazole, dioxazole, thiadiazole, pyridine, pyridazine, pyrimidine, pyrazine, triazine, oxazine, oxathiazine, oxadiazine, indole, benzimidazole, indazole, indoxazine, benzoxazole, benzisoxazole, benzothiazole, quinoxaline, isoquinoline, cinnoline, quinazoline, quinoxaline, naphthyridine, phthalazine, pteridine, xanthene, acridine, phenazine, phenothiazine, phenoxazine, benzofuropyridine,

furodipyridine, benzothienopyridine, thienodipyridine, benzoselenophenopyridine, and selenophenodipyridine; and the group consisting of 2 to 10 cyclic structural units which are groups of the same type or different types selected from the aromatic hydrocarbon cyclic group and the aromatic heterocyclic group and are bonded to each other directly or via at least one of oxygen atom, nitrogen atom, sulfur atom, silicon atom, phosphorus atom, boron atom, chain structural unit and the aliphatic cyclic group. Each option within each group may be unsubstituted or may be substituted by a substituent selected from the group consisting of deuterium, halogen, alkyl, cycloalkyl, heteroalkyl, heterocycloalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acids, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof.

[0173] In one aspect, the host compound contains at least one of the following groups in the molecule:

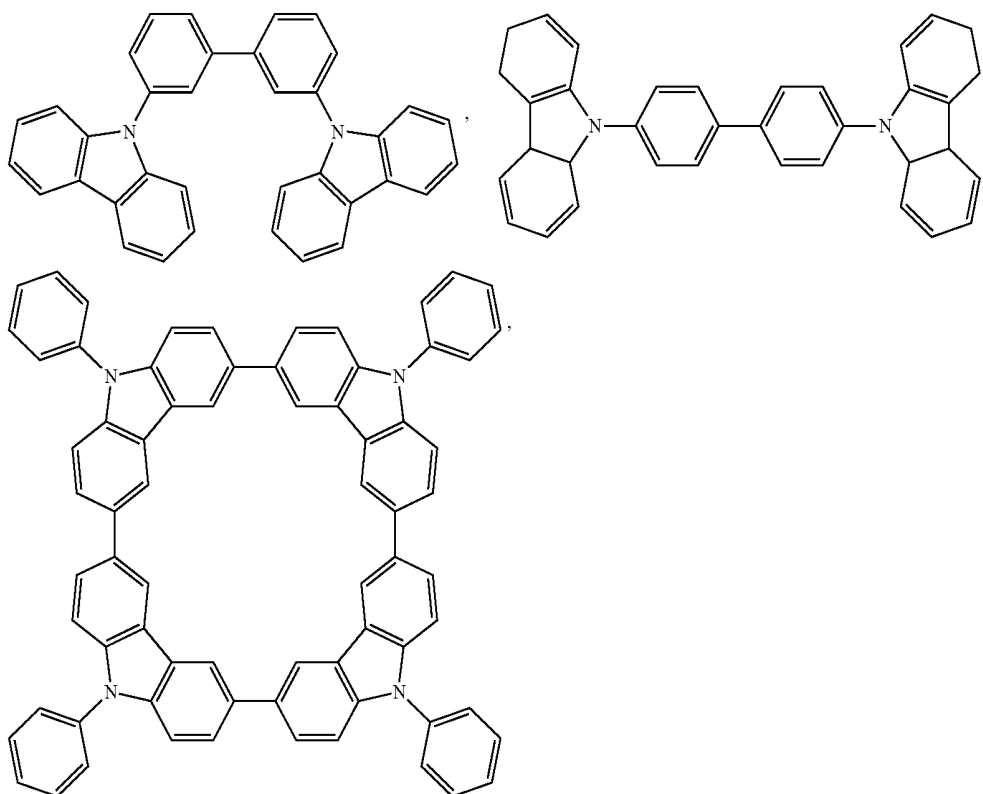




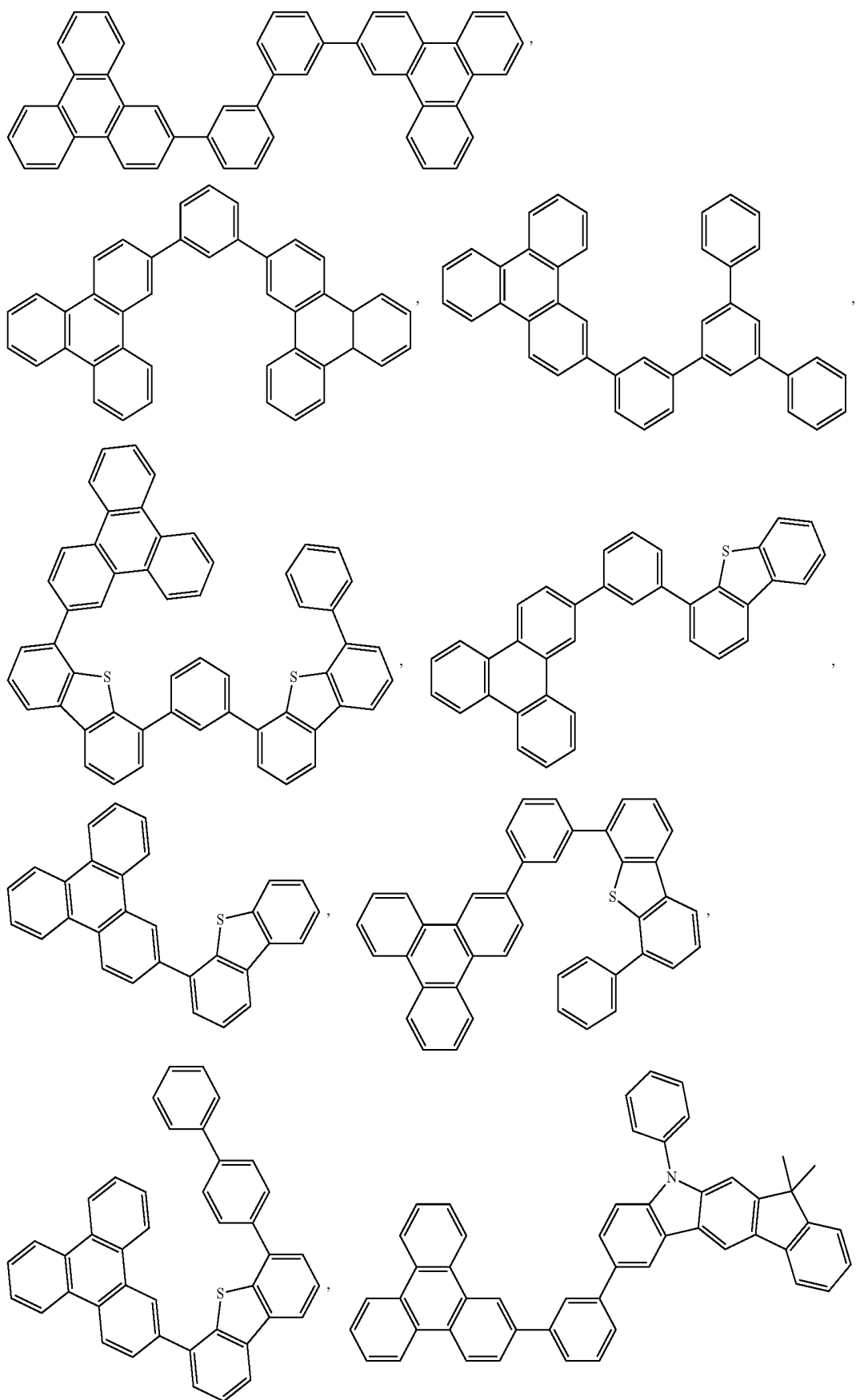
wherein R^{101} is selected from the group consisting of hydrogen, deuterium, halogen, alkyl, cycloalkyl, heteroalkyl, het-

erocycloalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alk-enyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acids, ether, ester, nitrile, isonitrile, sulfa-nyl, sulfinyl, sulfonyl, phosphino, and combinations thereof, and when it is aryl or heteroaryl, it has the similar definition as Ar's mentioned above. k is an integer from 0 to 20 or 1 to 20. X^{101} to X^{108} are independently selected from C (including CH) or N. Z^{101} and Z^{102} are independently selected from NR^{101} , O, or S.

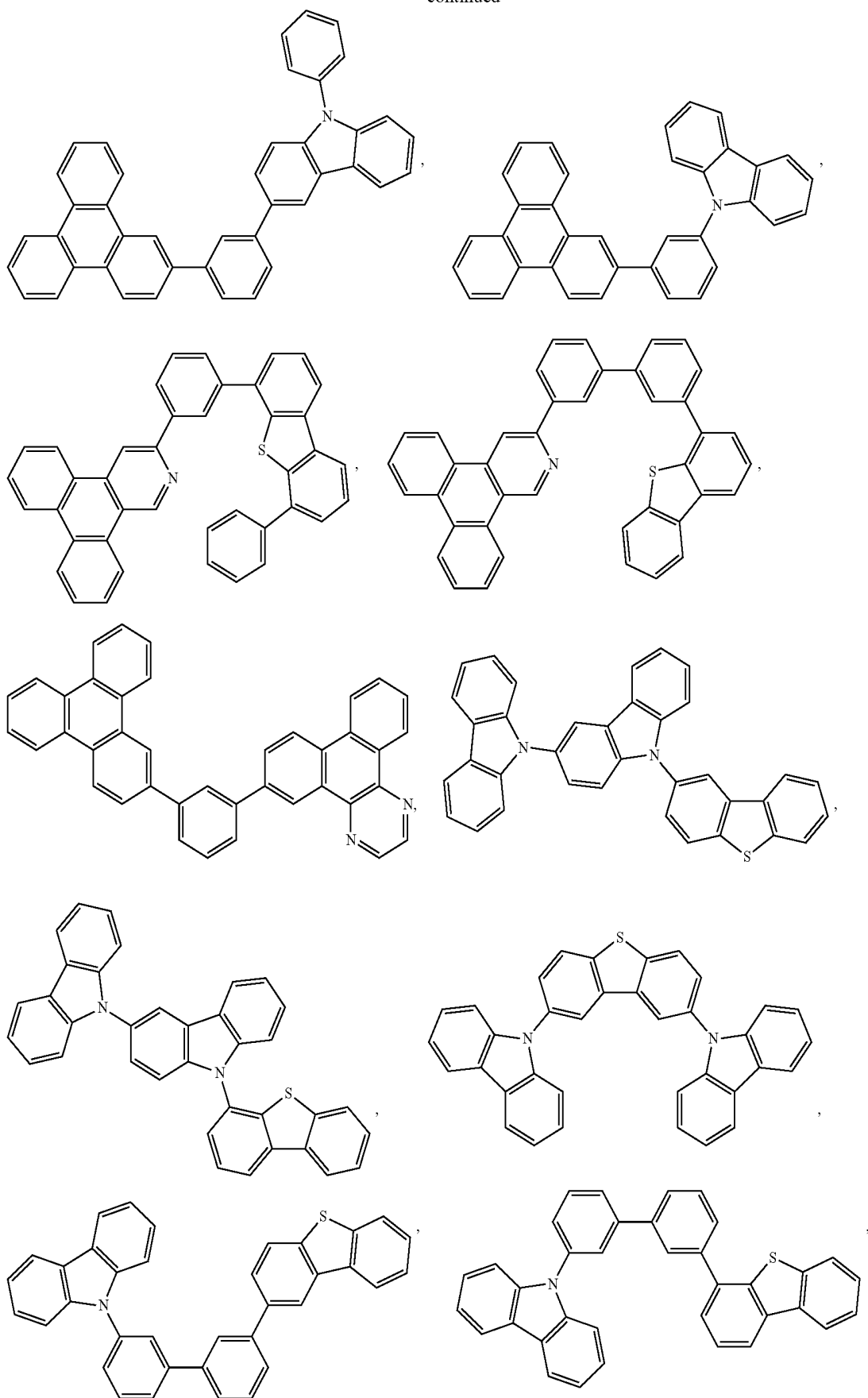
[0174] Non-limiting examples of the host materials that may be used in an OLED in combination with materials disclosed herein are exemplified below together with references that disclose those materials: EP2034538, EP2034538A, EP2757608, JP2007254297, KR20100079458, KR20120088644, KR20120129733, KR20130115564, TW201329200, US20030175553, US20050238919, US20060280965, US20090017330, US20090030202, US20090167162, US20090302743, US20090309488, US20100012931, US20100084966, US20100187984, US2010187984, US2012075273, US2012126221, US2013009543, US2013105787, US2013175519, US2014001446, US20140183503, US20140225088, US2014034914, U.S. Pat. No. 7,154,114, WO2001039234, WO2004093207, WO2005014551, WO2005089025, WO2006072002, WO2006114966, WO2007063754, WO2008056746, WO2009003898, WO2009021126, WO2009063833, WO2009066778, WO2009066779, WO2009086028, WO2010056066, WO2010107244, WO2011081423, WO2011081431, WO2011086863, WO2012128298, WO2012133644, WO2012133649, WO2013024872, WO2013035275, WO2013081315, WO2013191404, WO2014142472, US20170263869, US20160163995, U.S. Pat. No. 9,466, 803,



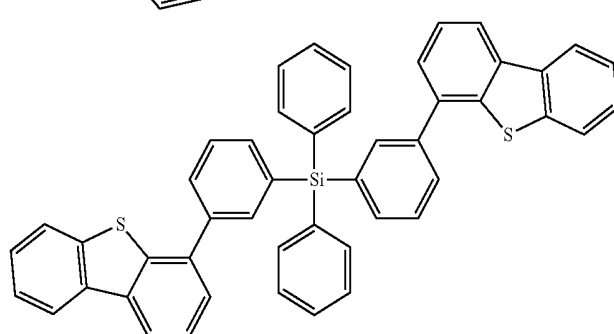
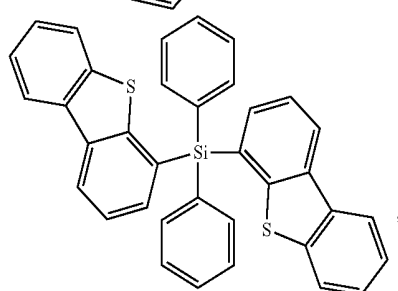
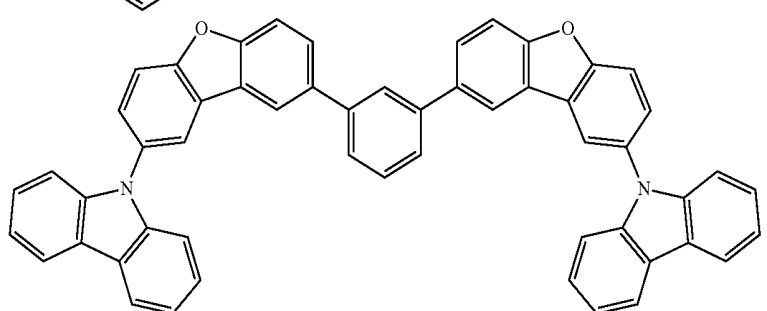
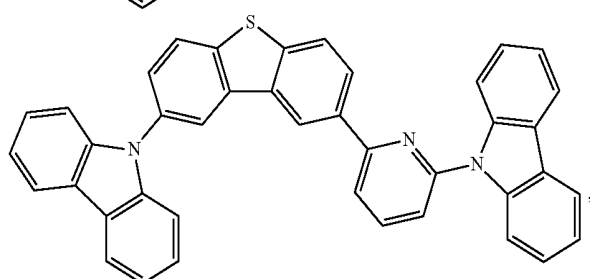
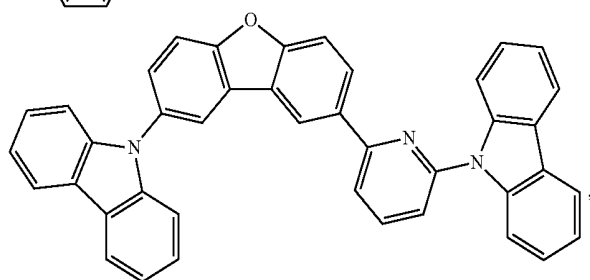
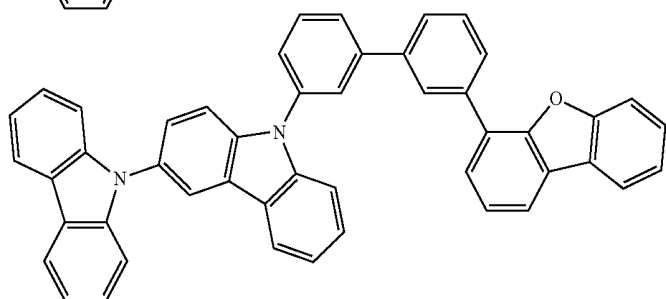
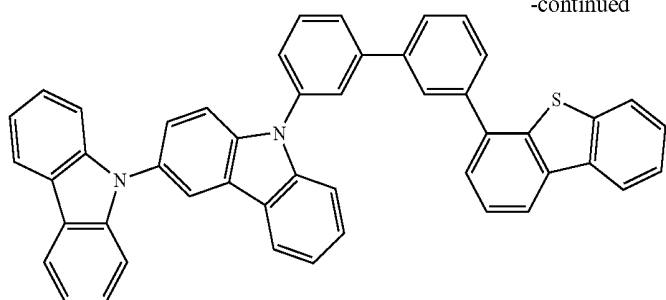
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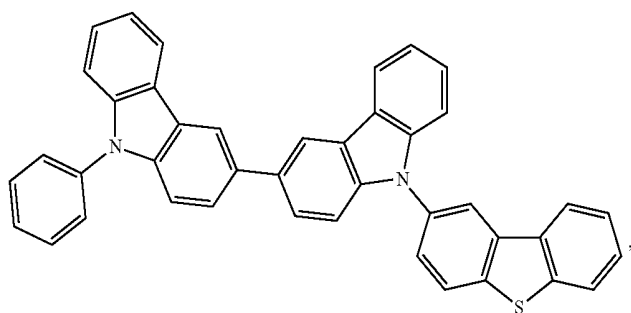
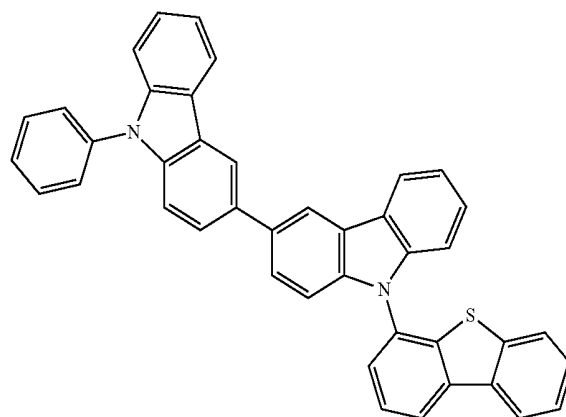
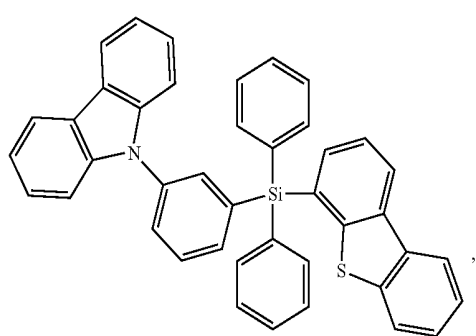
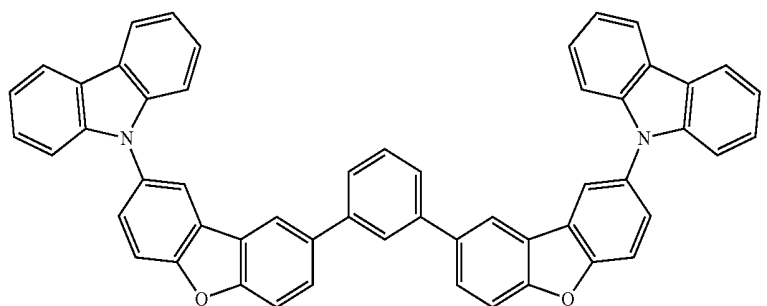
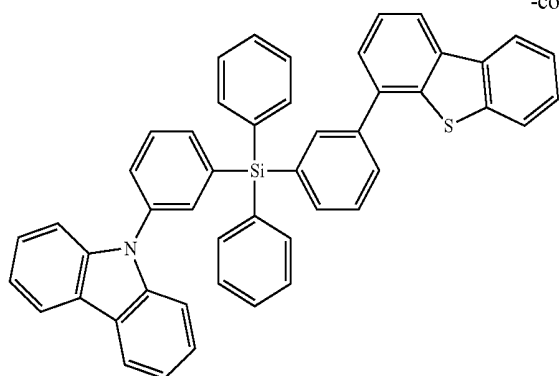
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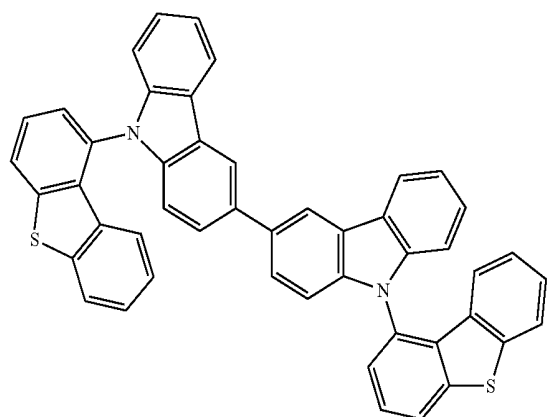
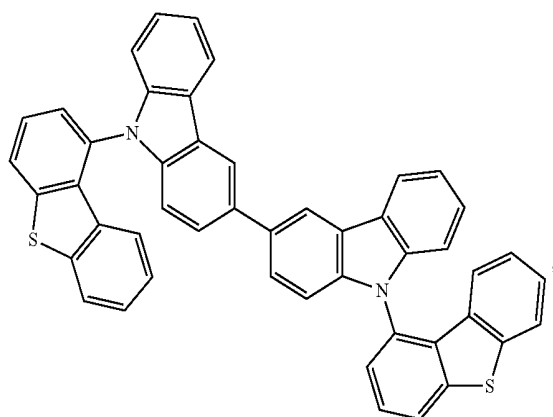
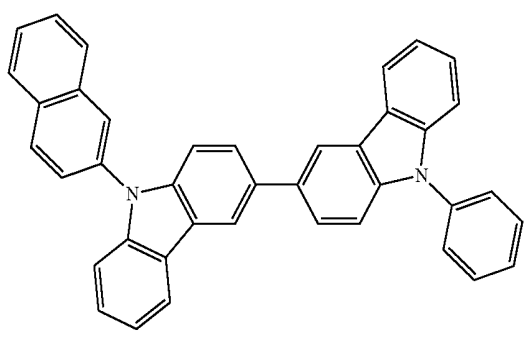
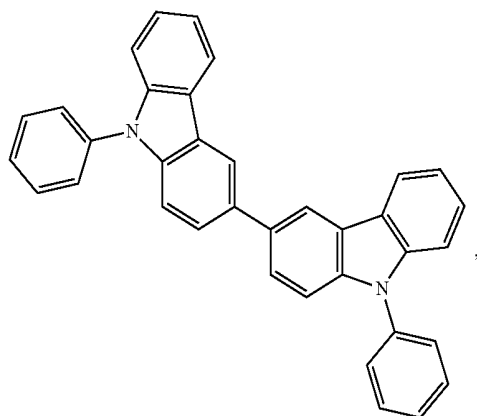
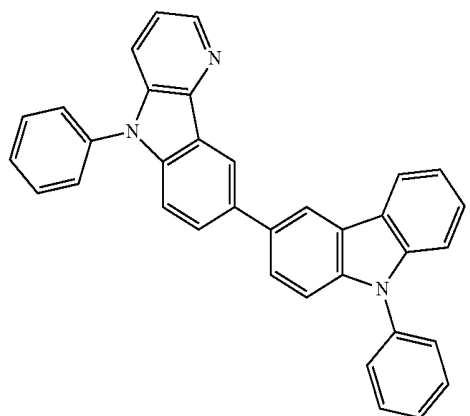
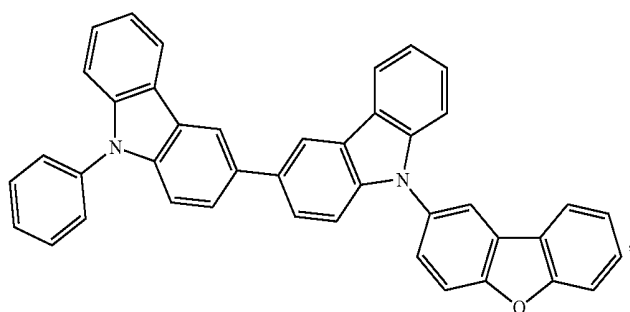
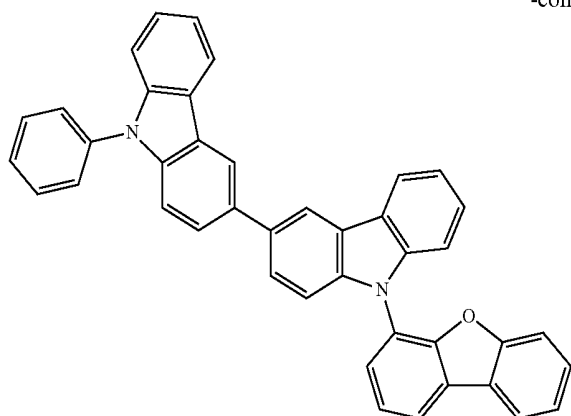
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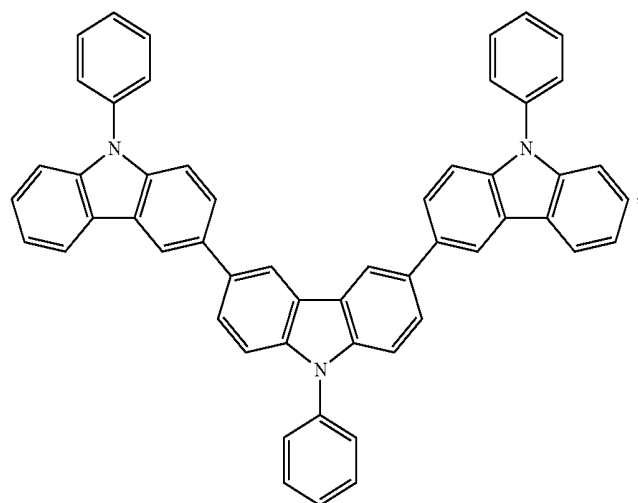
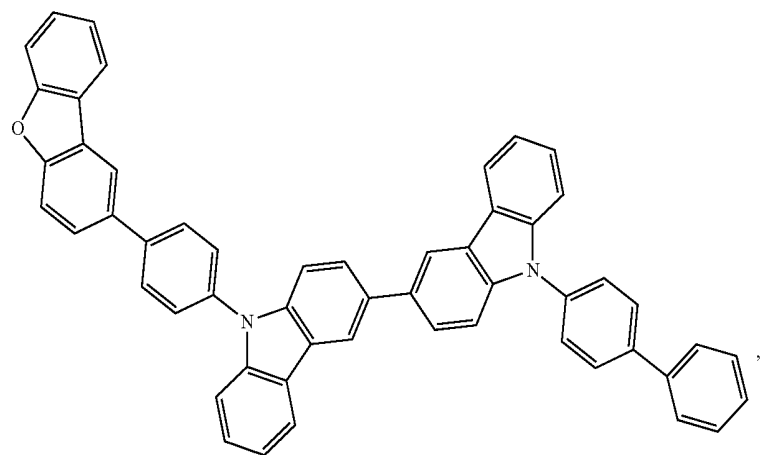
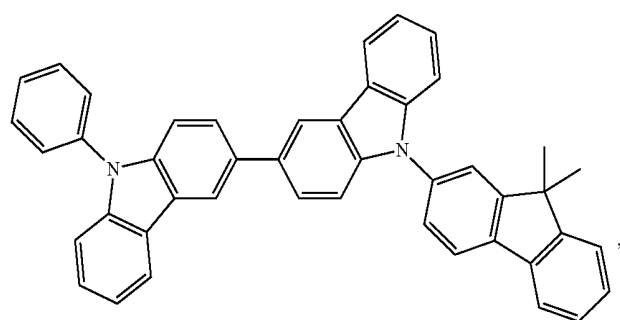
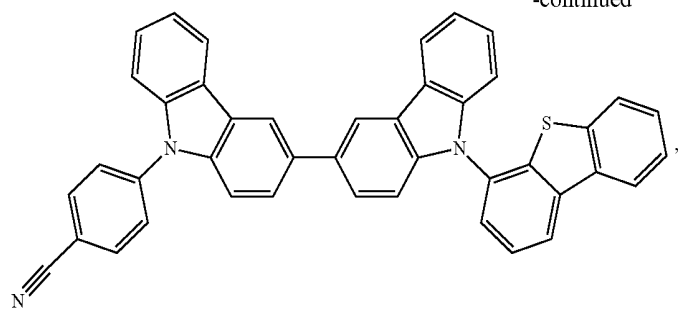
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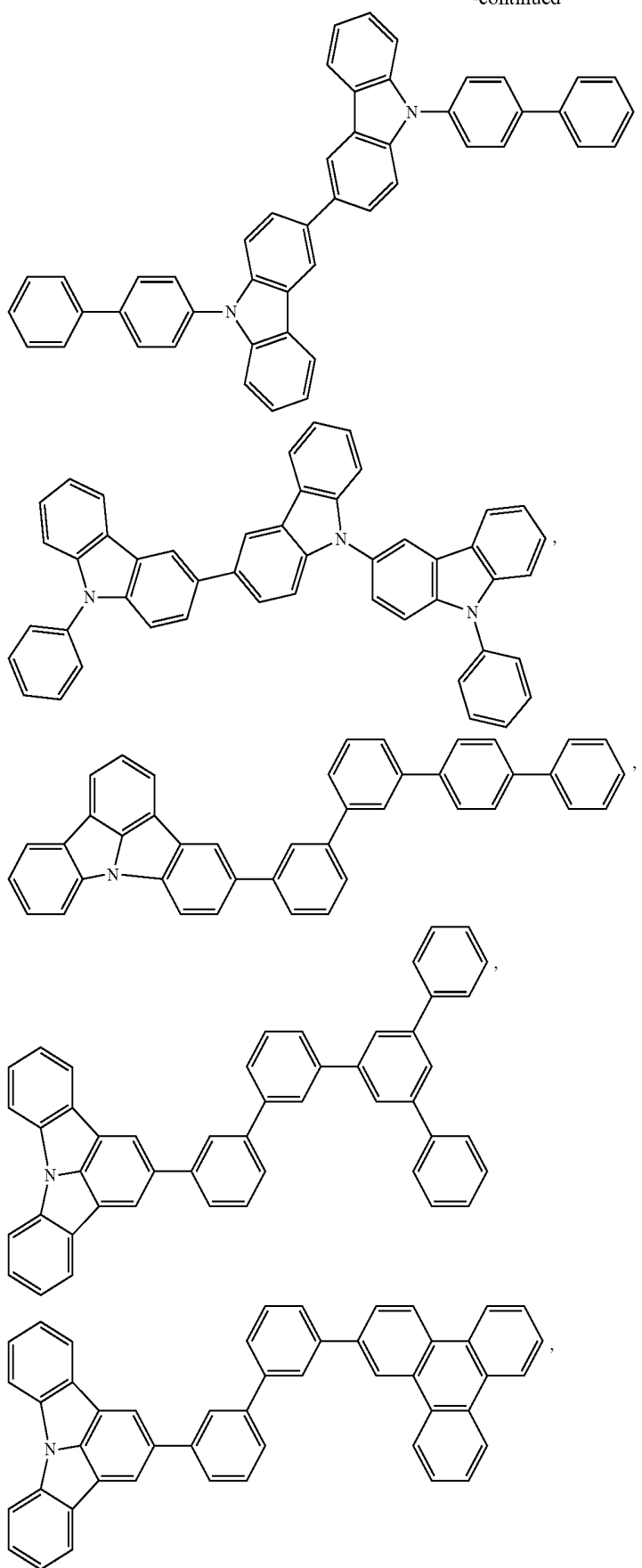
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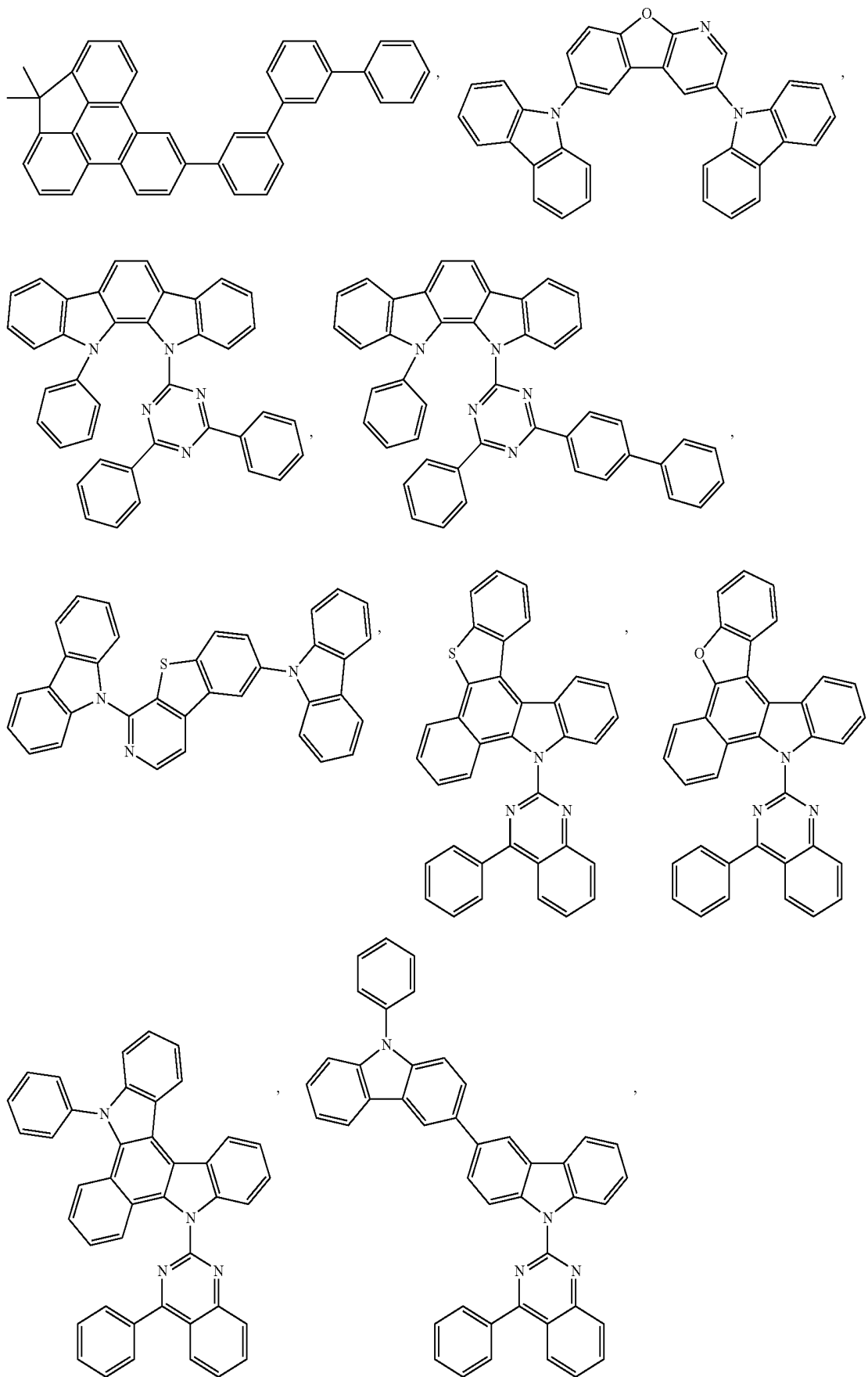
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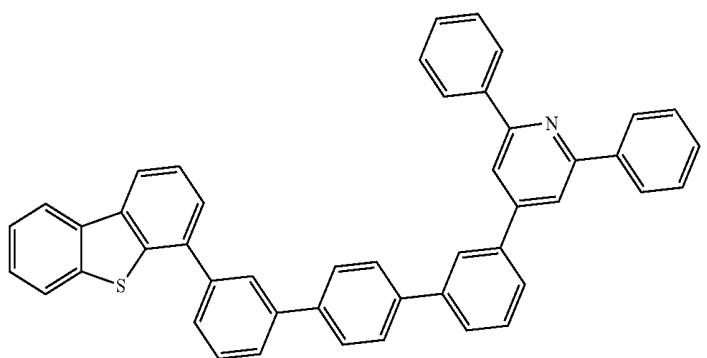
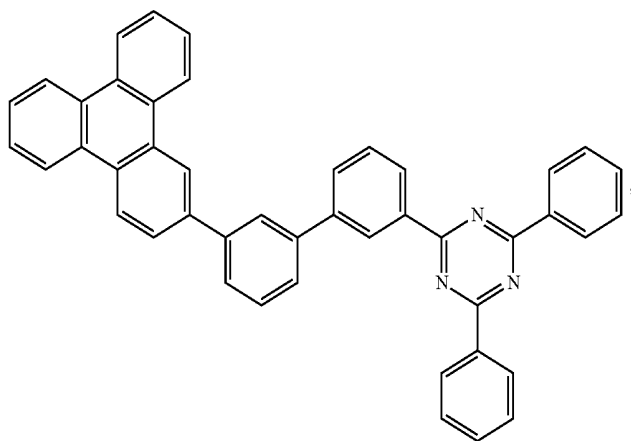
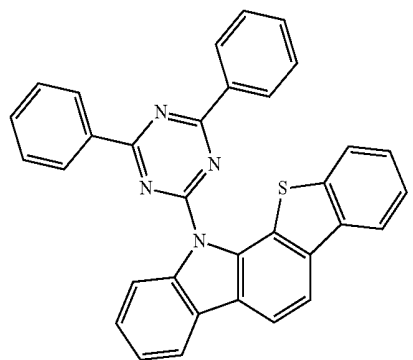
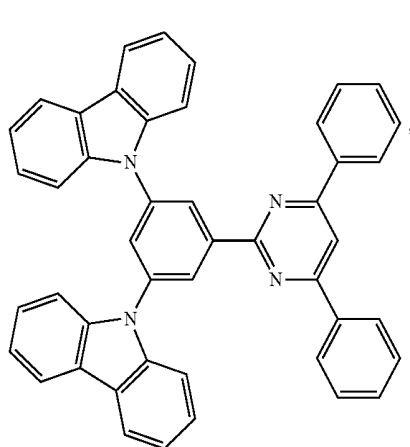
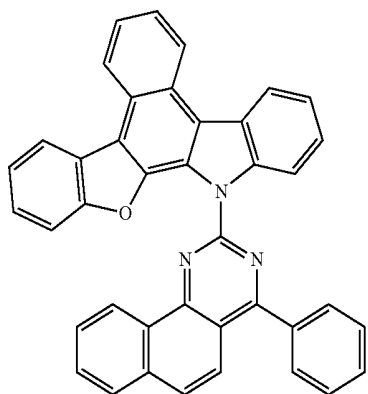
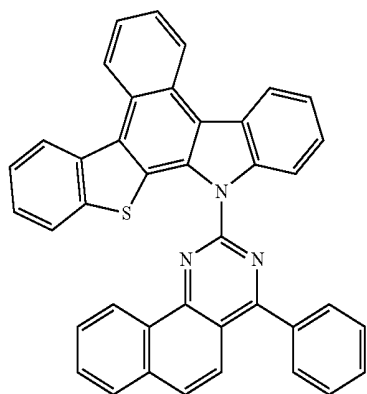
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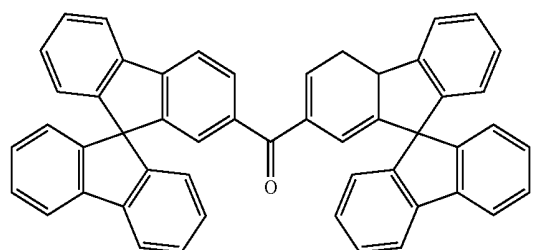
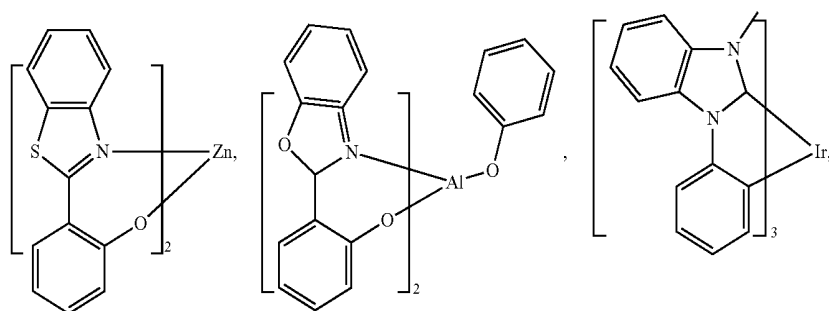
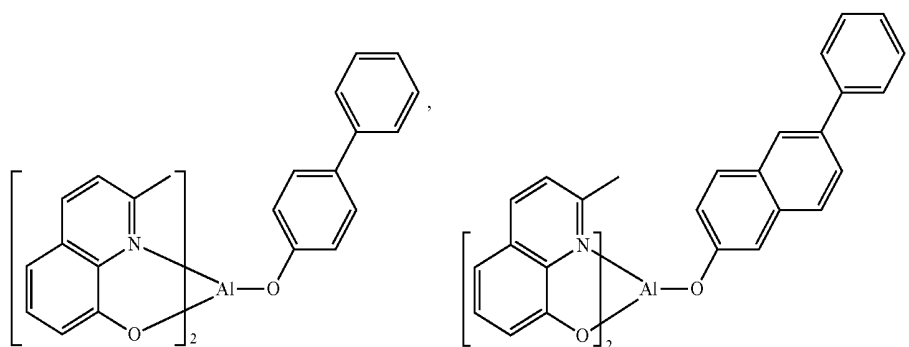
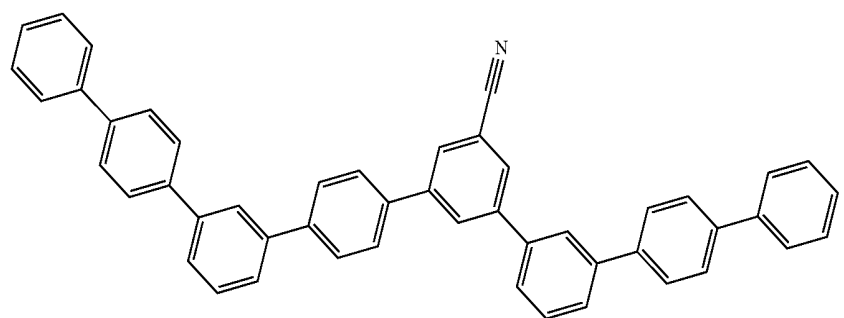
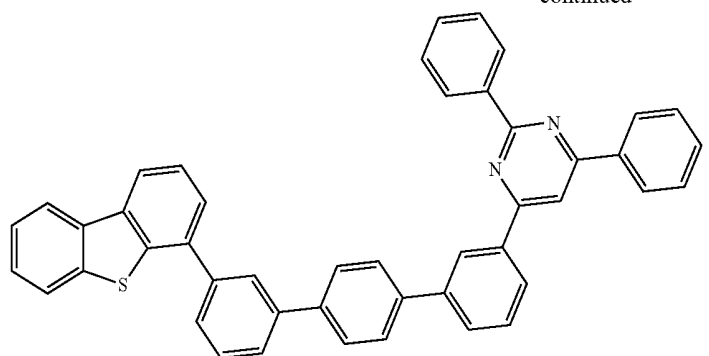
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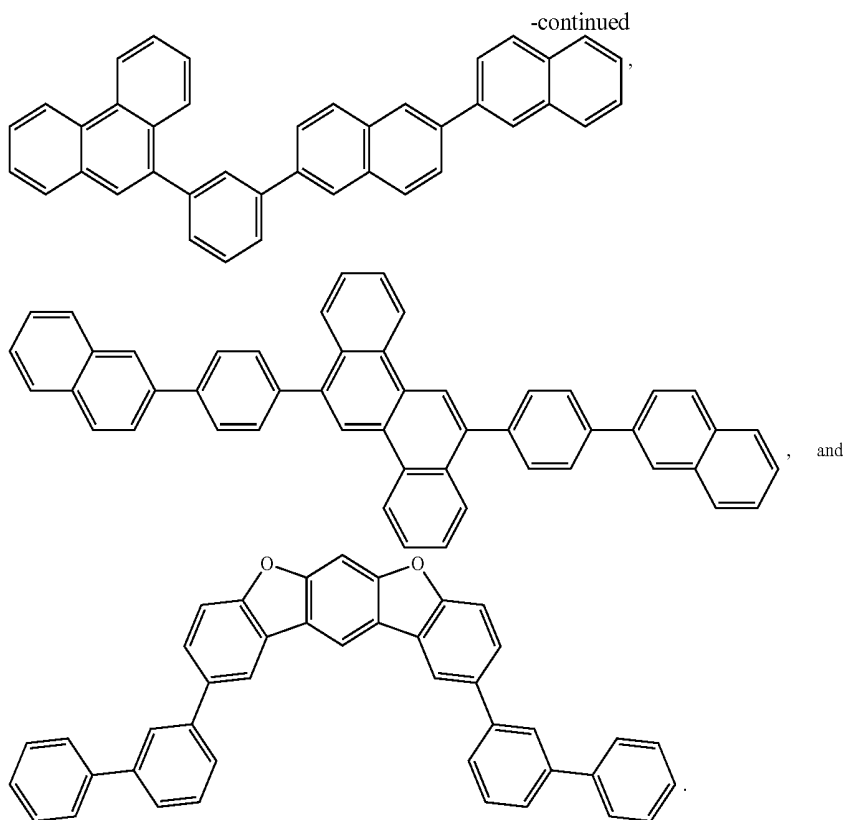


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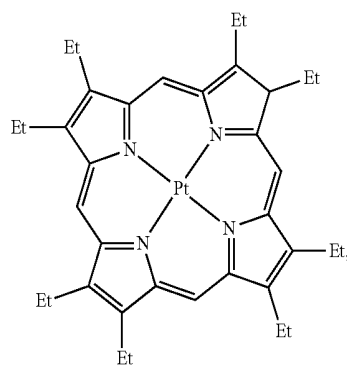


Additional Emitters:

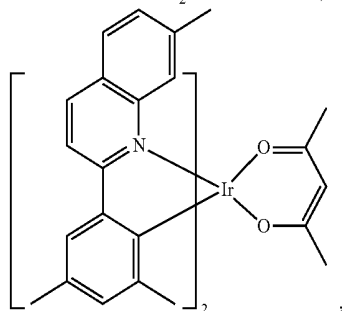
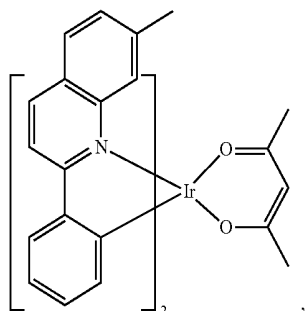
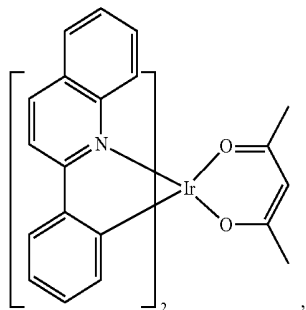
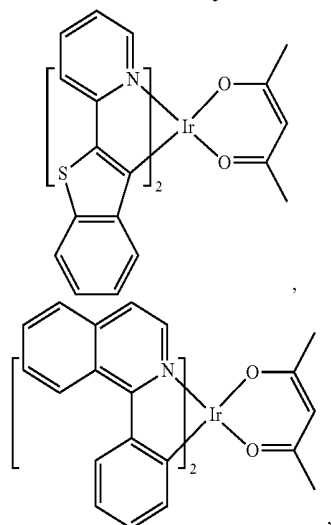
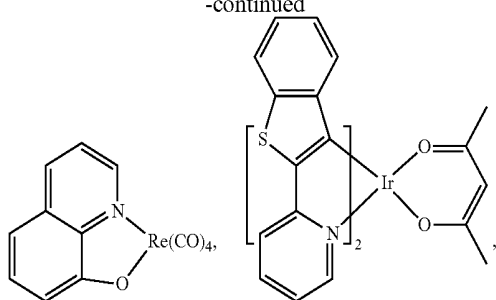
[0175] One or more additional emitter dopants may be used in conjunction with the compound of the present disclosure. Examples of the additional emitter dopants are not particularly limited, and any compounds may be used as long as the compounds are typically used as emitter materials. Examples of suitable emitter materials include, but are not limited to, compounds which can produce emissions via phosphorescence, fluorescence, thermally activated delayed fluorescence, i.e., TADF (also referred to as E-type delayed fluorescence), triplet-triplet annihilation, or combinations of these processes.

[0176] Non-limiting examples of the emitter materials that may be used in an OLED in combination with materials disclosed herein are exemplified below together with references that disclose those materials: CN103694277, CN1696137, EB01238981, EP01239526, EP01961743, EP1239526, EP1244155, EP1642951, EP1647554, EP1841834, EP1841834B, EP2062907, EP2730583, JP2012074444, JP2013110263, JP4478555, KR1020090133652, KR20120032054, KR20130043460, TW201332980, U.S. Ser. No. 06/699,599, U.S. Ser. No. 06/916,554, US20010019782, US20020034656, US20030068526, US20030072964, US20030138657, US20050123788, US20050244673, US2005123791, US2005260449, US20060008670, US20060065890, US20060127696, US20060134459, US20060134462, US20060202194, US20060251923, US20070034863, US20070087321, US20070103060, US20070111026, US20070190359, US20070231600, US2007034863, US2007104979, US2007104980, US2007138437, US2007224450, US2007278936, US20080020237, US20080233410, US20080261076, US20080297033, US200805851, US2008161567, US2008210930, US20090039776, US20090108737, US20090115322, US20090179555, US2009085476, US2009104472, US20100090591, US20100148663, US20100244004,

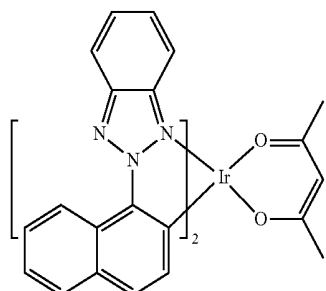
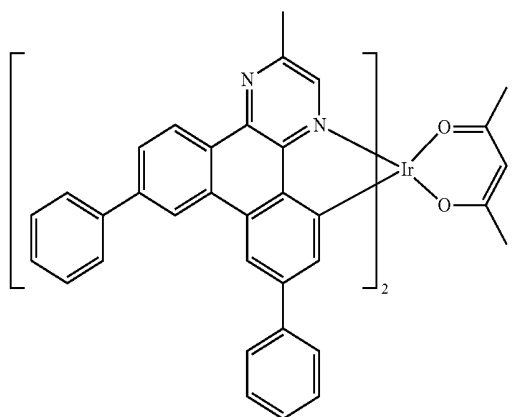
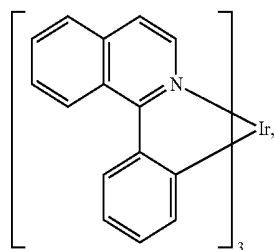
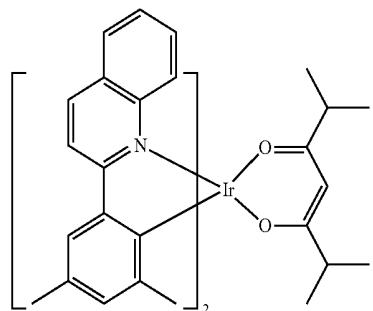
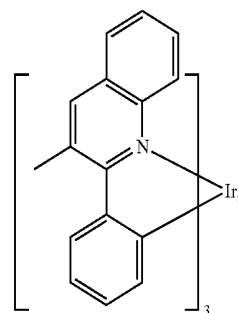
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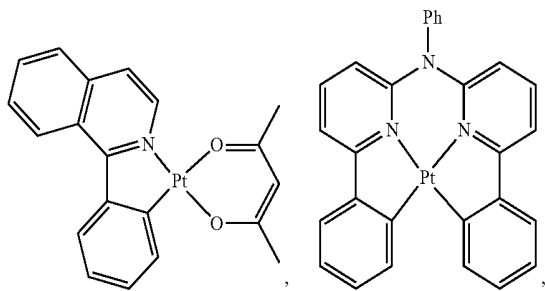
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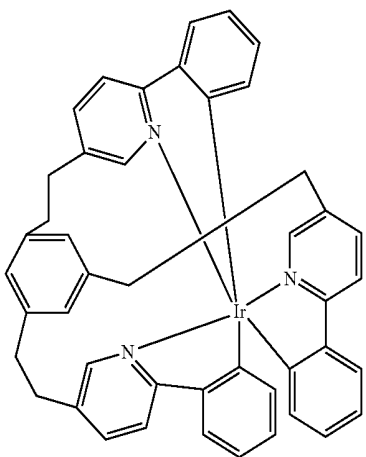
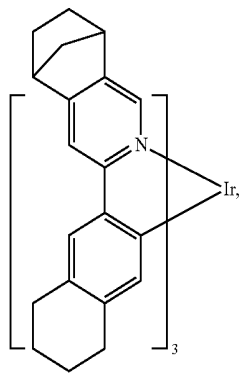
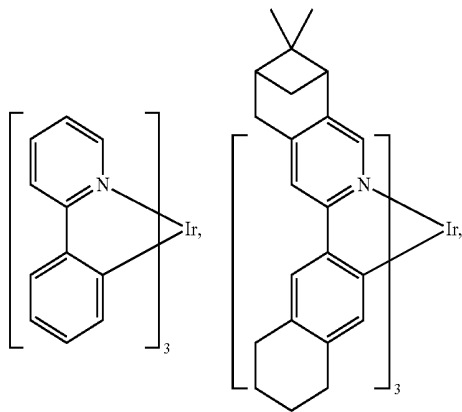
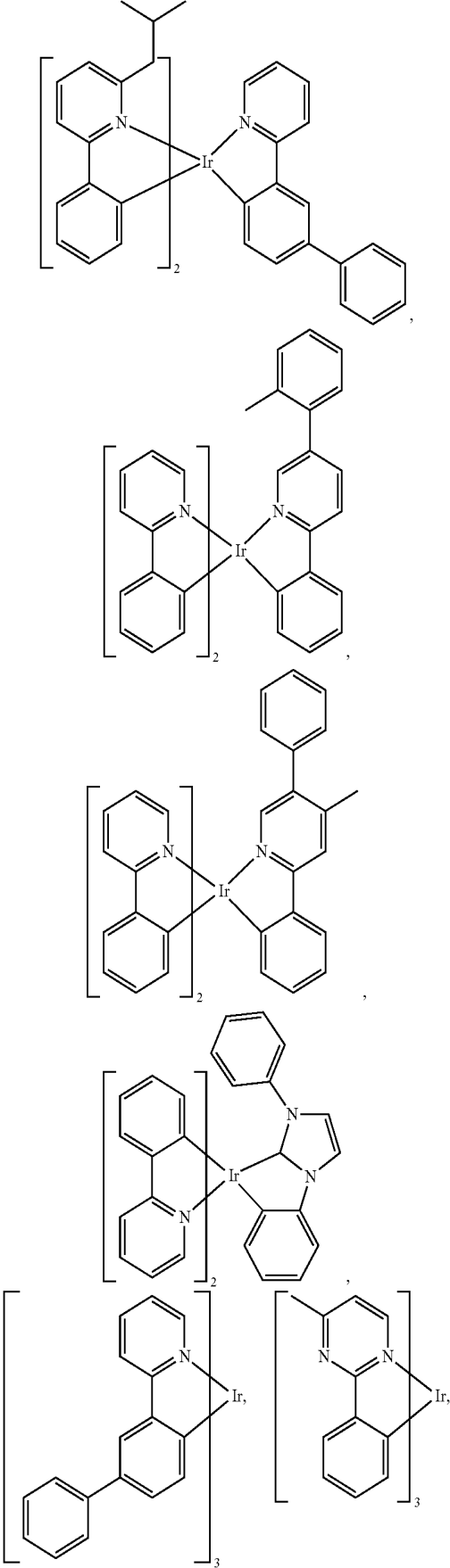
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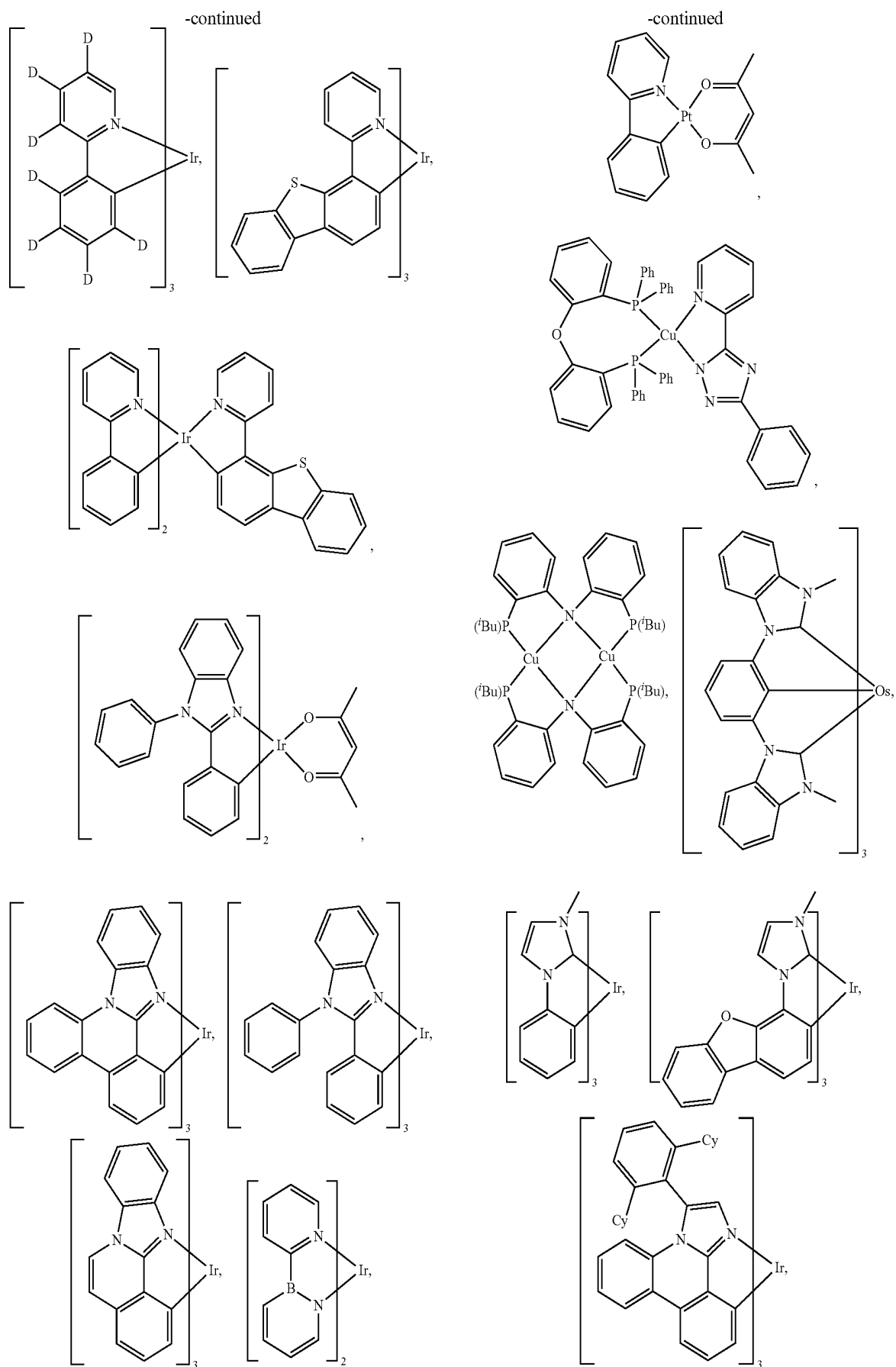


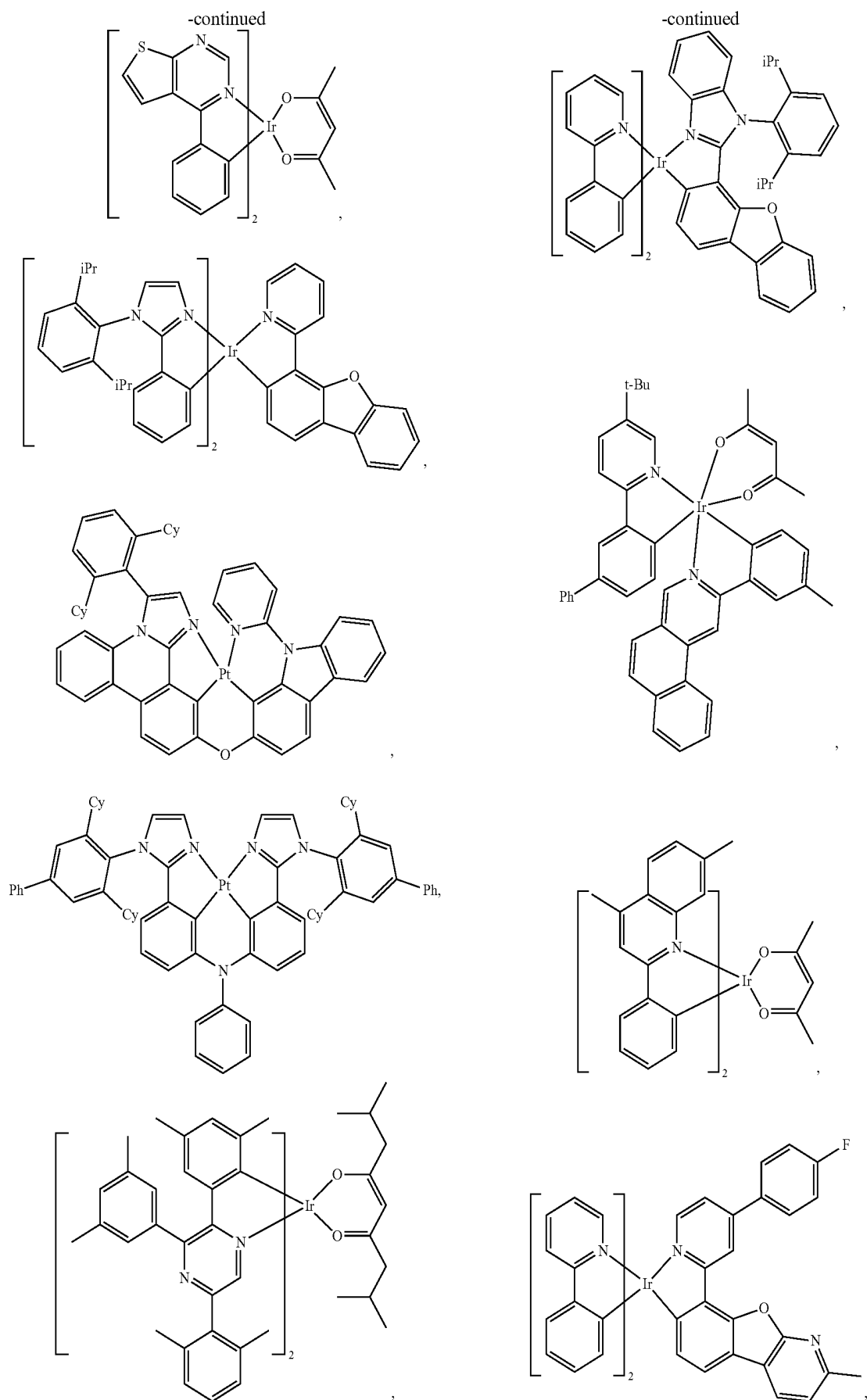
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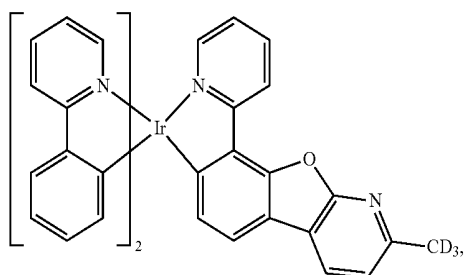
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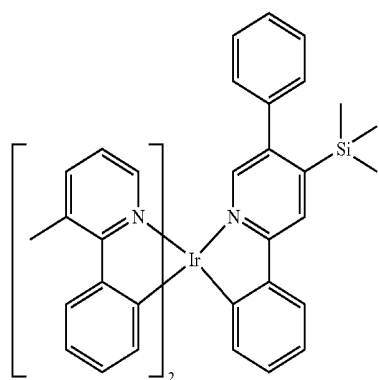
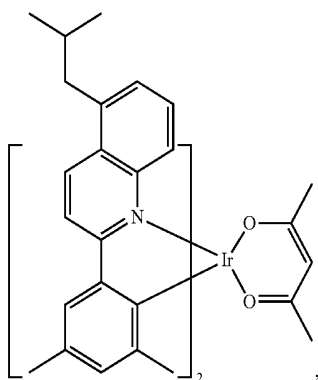
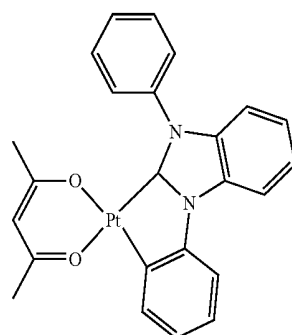
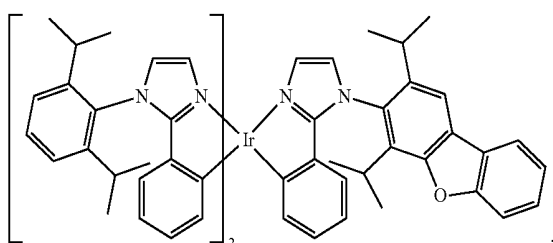
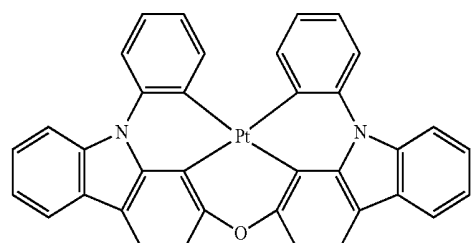
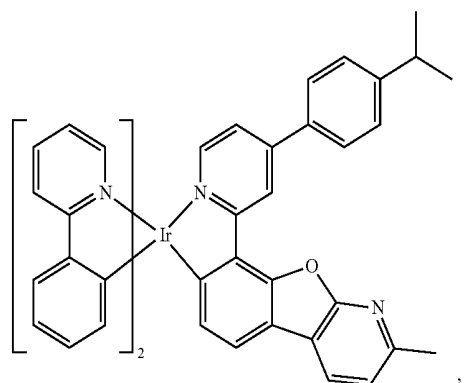
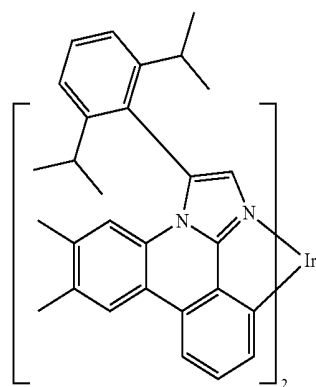
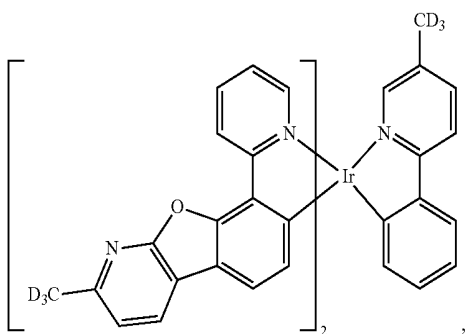
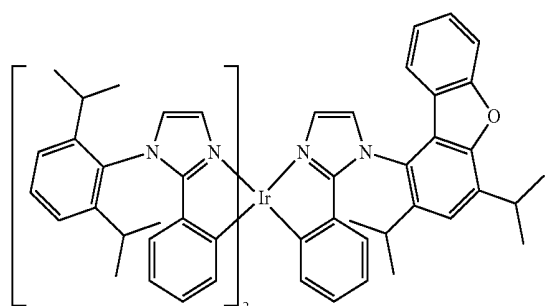


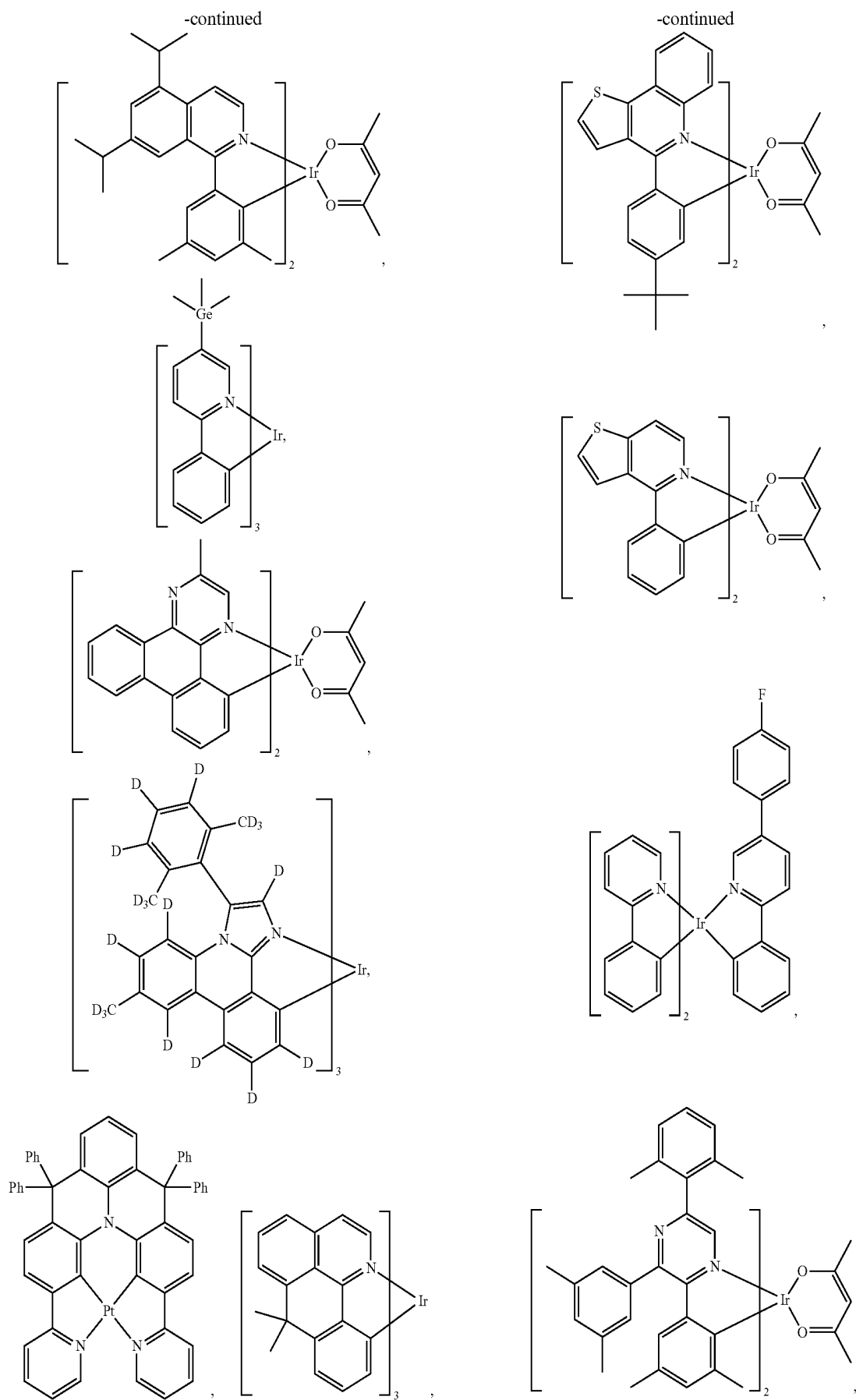


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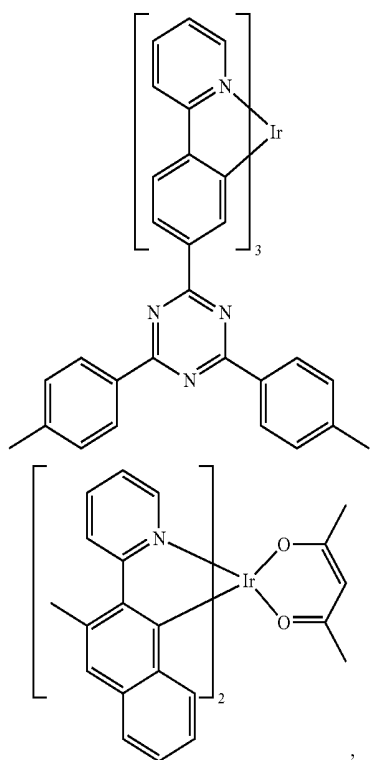
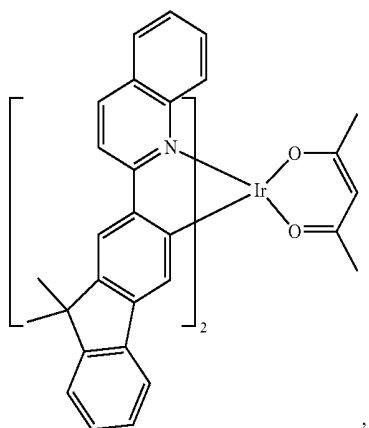
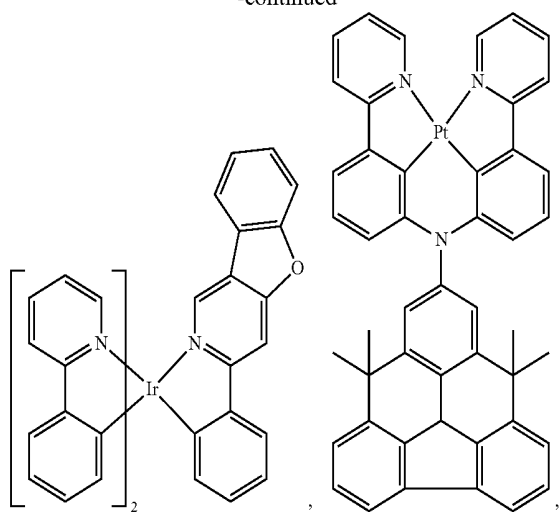


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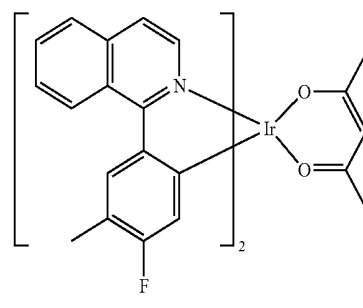
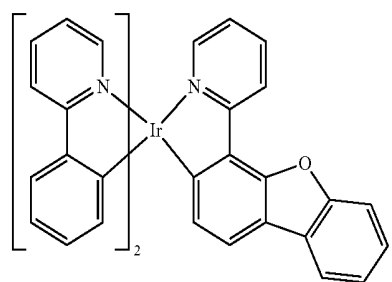
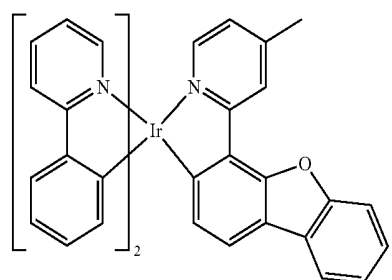
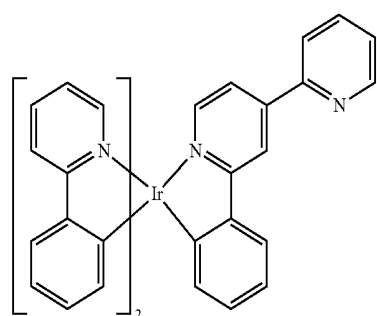
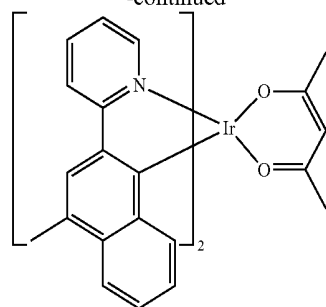


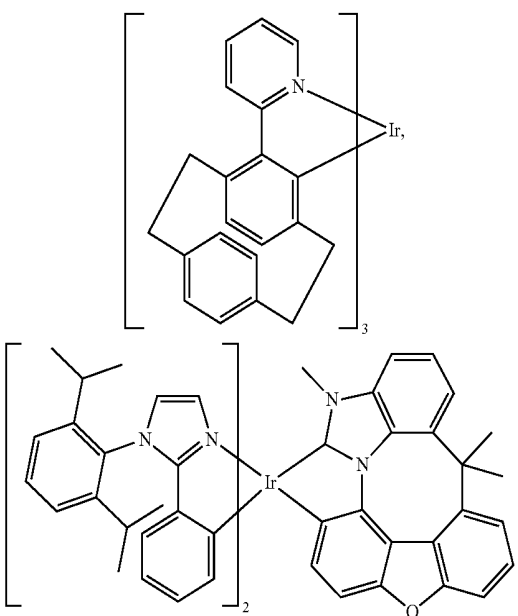
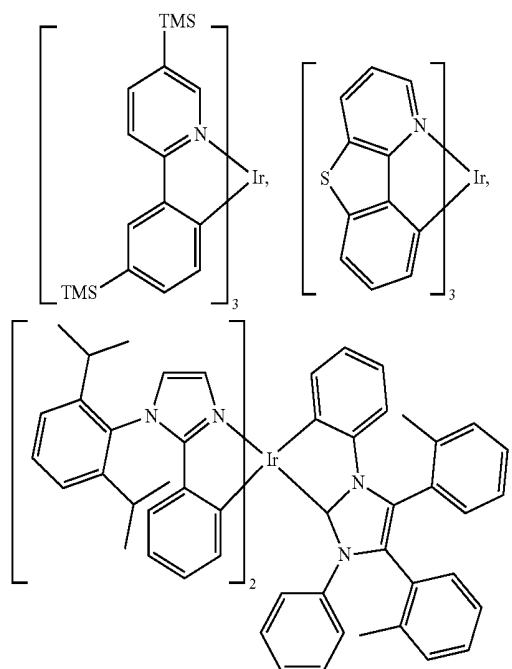
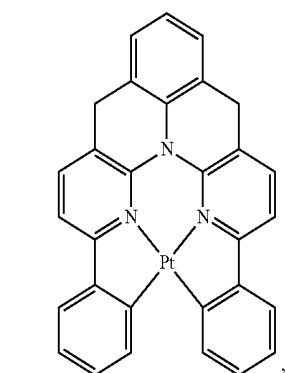
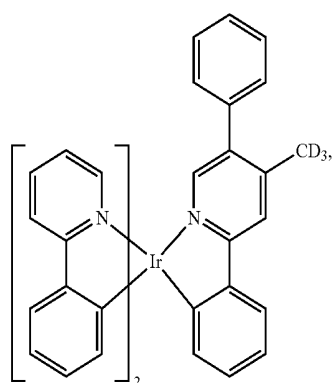
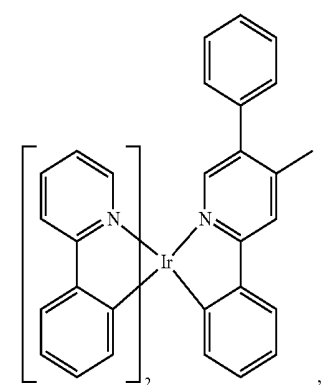
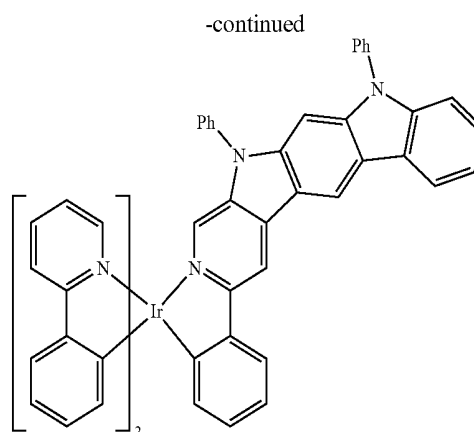
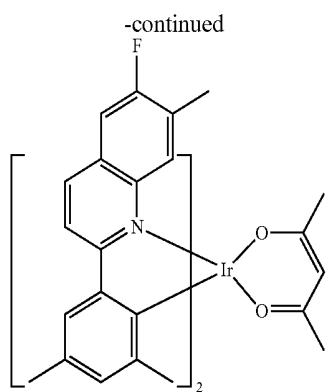


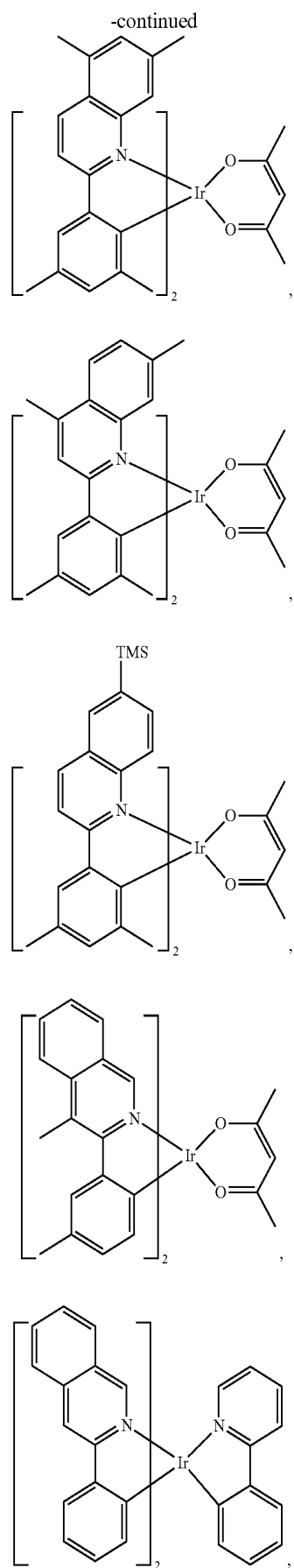
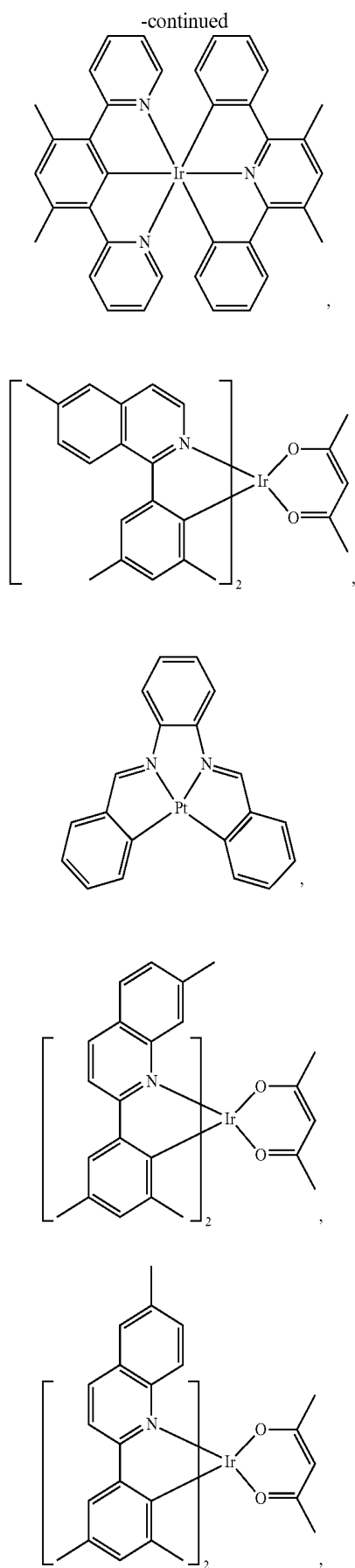
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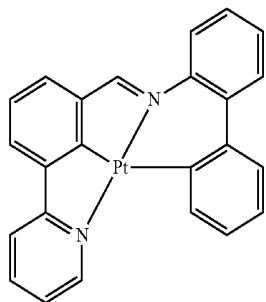
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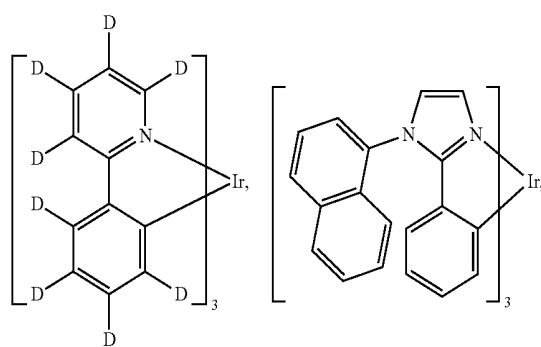
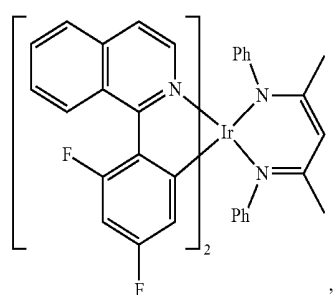
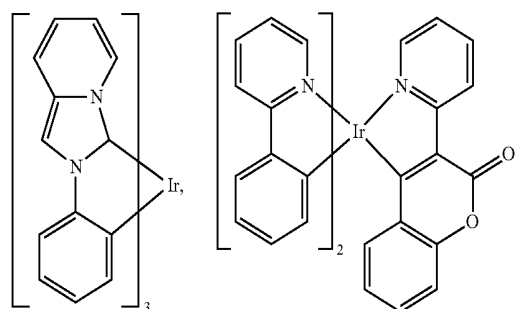
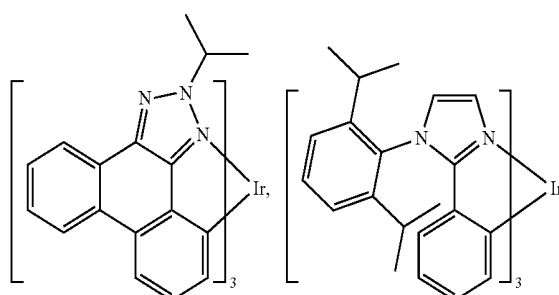
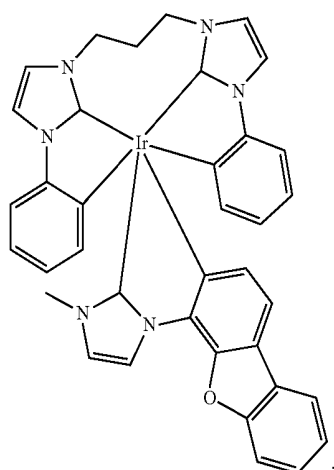
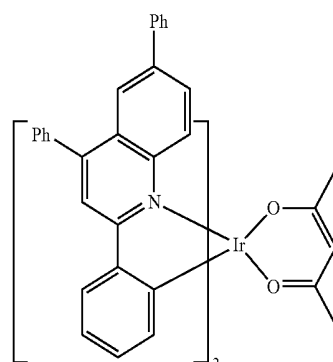
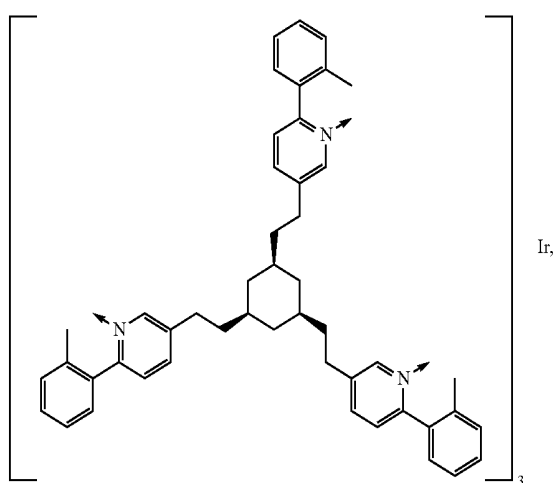
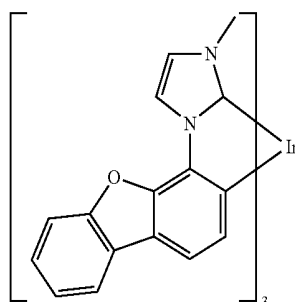




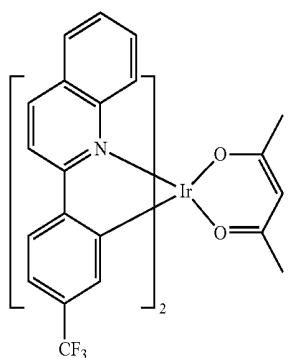
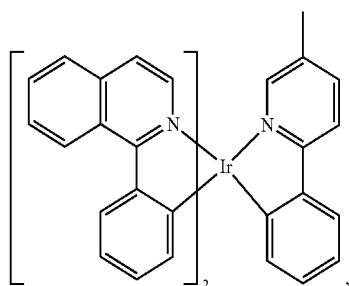
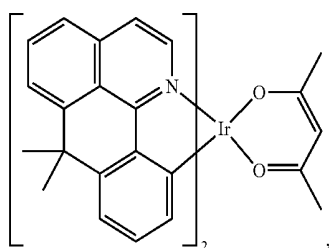
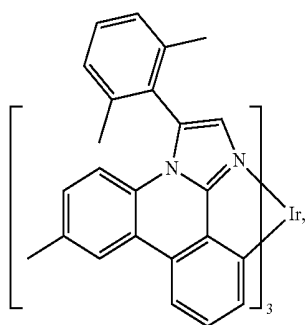
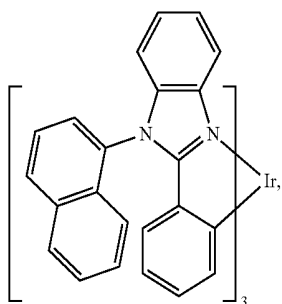
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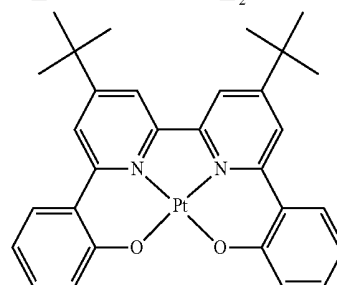
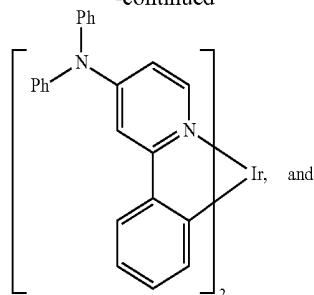
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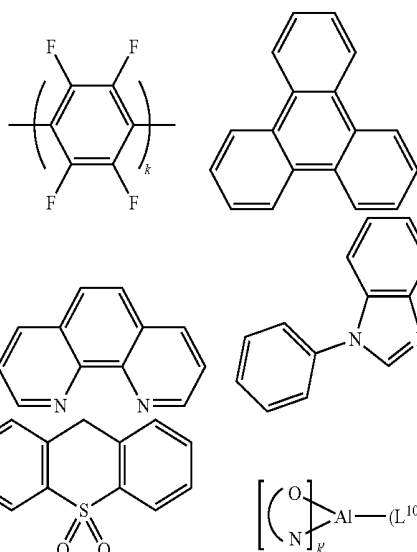
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[0177] A hole blocking layer (HBL) may be used to reduce the number of holes and/or excitons that leave the emissive layer. The presence of such a blocking layer in a device may result in substantially higher efficiencies and/or longer lifetime as compared to a similar device lacking a blocking layer. Also, a blocking layer may be used to confine emission to a desired region of an OLED. In some embodiments, the HBL material has a lower HOMO (further from the vacuum level) and/or higher triplet energy than the emitter closest to the HBL interface. In some embodiments, the HBL material has a lower HOMO (further from the vacuum level) and/or higher triplet energy than one or more of the hosts closest to the HBL interface.

[0178] In one aspect, compound used in HBL contains the same molecule or the same functional groups used as host described above.

[0179] In another aspect, compound used in HBL contains at least one of the following groups in the molecule:

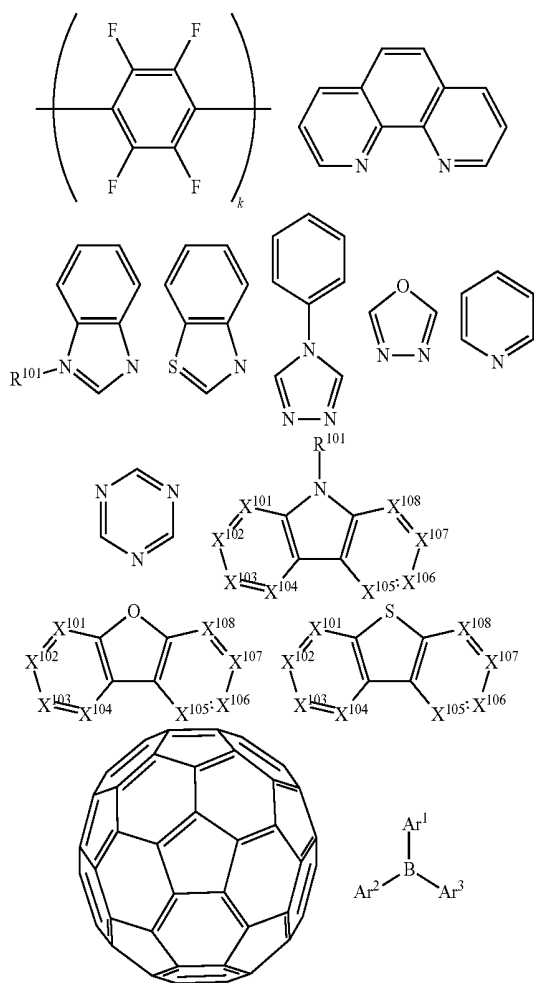


wherein k is an integer from 1 to 20; L^{101} is another ligand, k' is an integer from 1 to 3.

ETL:

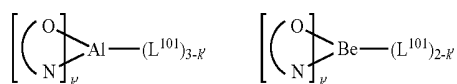
[0180] Electron transport layer (ETL) may include a material capable of transporting electrons. Electron transport layer may be intrinsic (undoped), or doped. Doping may be used to enhance conductivity. Examples of the ETL material are not particularly limited, and any metal complexes or organic compounds may be used as long as they are typically used to transport electrons.

[0181] In one aspect, compound used in ETL contains at least one of the following groups in the molecule:

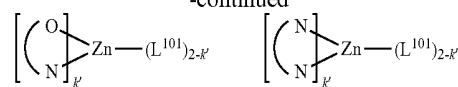


wherein R^{101} is selected from the group consisting of hydrogen, deuterium, halogen, alkyl, cycloalkyl, heteroalkyl, heterocycloalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acids, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof, when it is aryl or heteroaryl, it has the similar definition as Ar 's mentioned above. Ar^1 to Ar^3 has the similar definition as Ar 's mentioned above. k is an integer from 1 to 20. X^{101} to X^{108} is selected from C (including CH) or N.

[0182] In another aspect, the metal complexes used in ETL contains, but not limit to the following general formula:

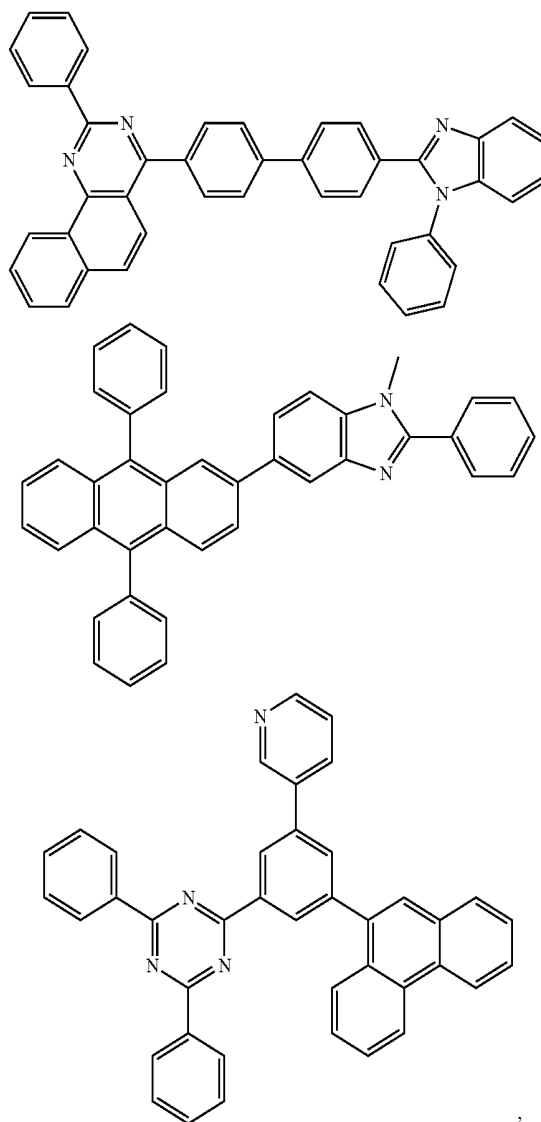


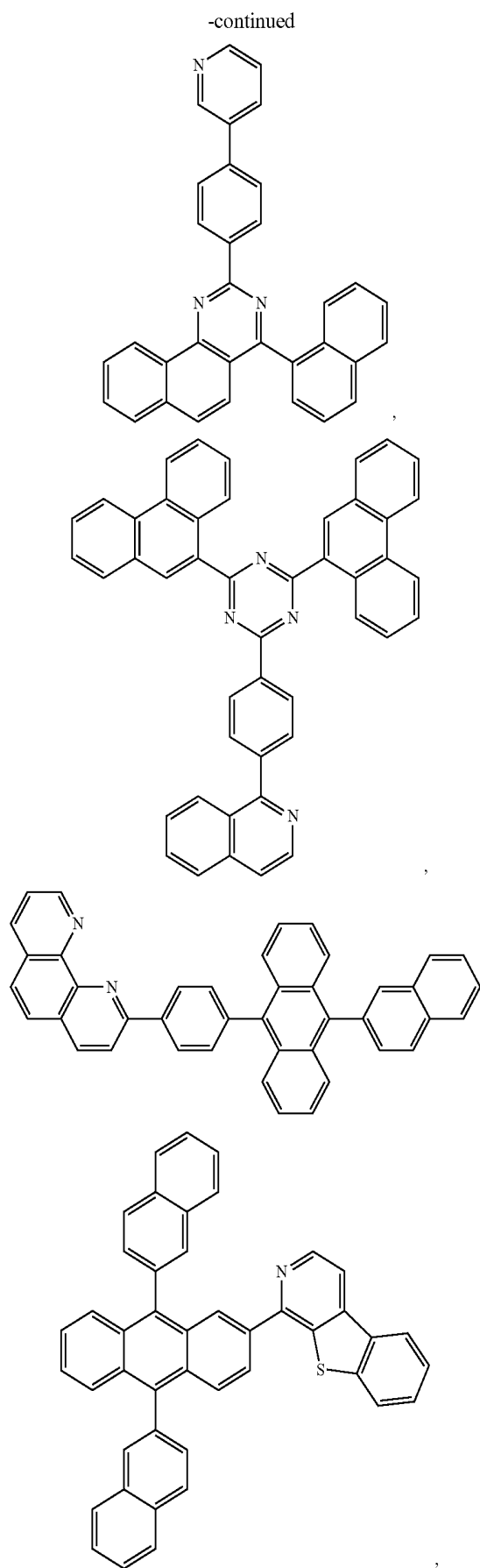
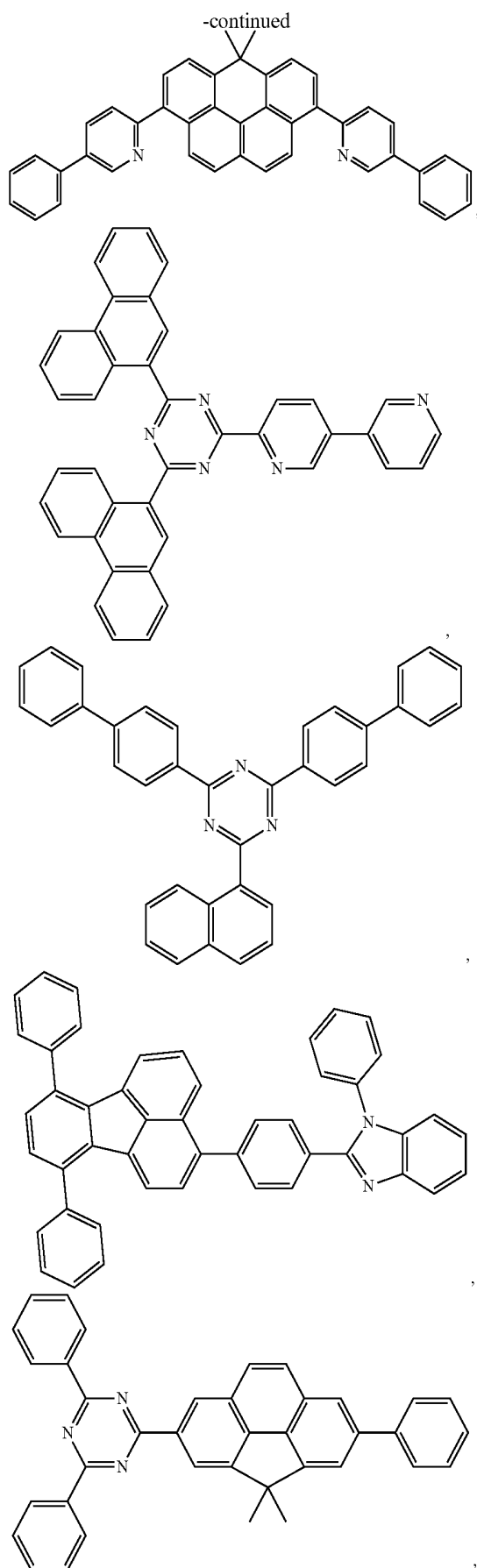
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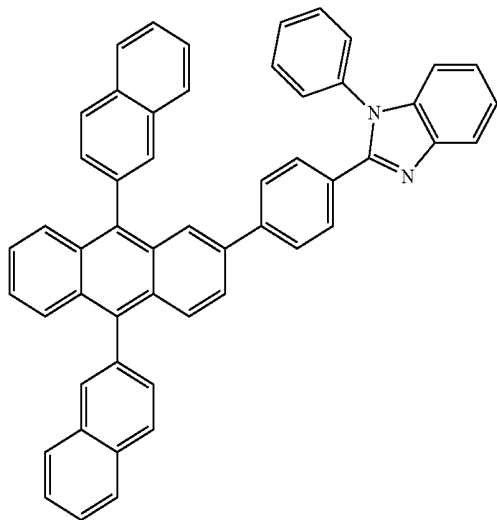
wherein (O—N) or (N—N) is a bidentate ligand, having metal coordinated to atoms O, N or N, N; L^{101} is another ligand; k' is an integer value from 1 to the maximum number of ligands that may be attached to the metal.

[0183] Non-limiting examples of the ETL materials that may be used in an OLED in combination with materials disclosed herein are exemplified below together with references that disclose those materials: CN103508940, EP01602648, EP01734038, EP01956007, JP2004-022334, JP2005149918, JP2005-268199, KR0117693, KR20130108183, US20040036077, US20070104977, US2007018155, US20090101870, US20090115316, US20090140637, US20090179554, US2009218940, US2010108990, US2011156017, US2011210320, US2012193612, US2012214993, US2014014925, US2014014927, US20140284580, U.S. Pat. Nos. 6,656,612, 8,415,031, WO2003060956, WO2007111263, WO2009148269, WO2010067894, WO2010072300, WO2011074770, WO2011105373, WO2013079217, WO2013145667, WO2013180376, WO2014104499, WO2014104535,

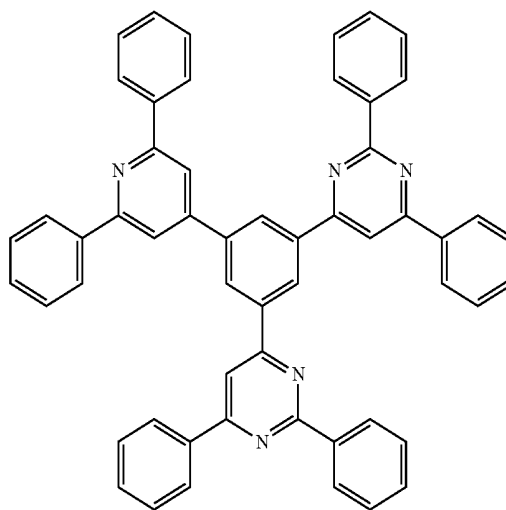
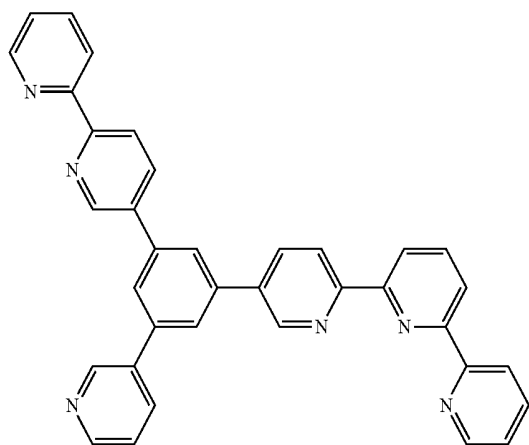
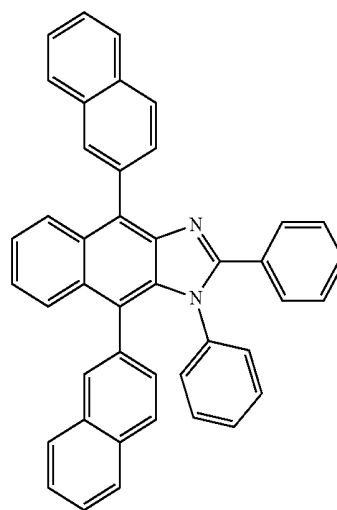
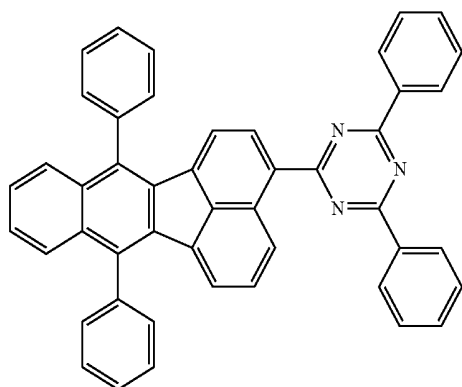
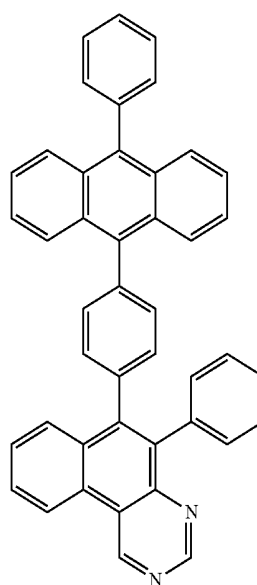




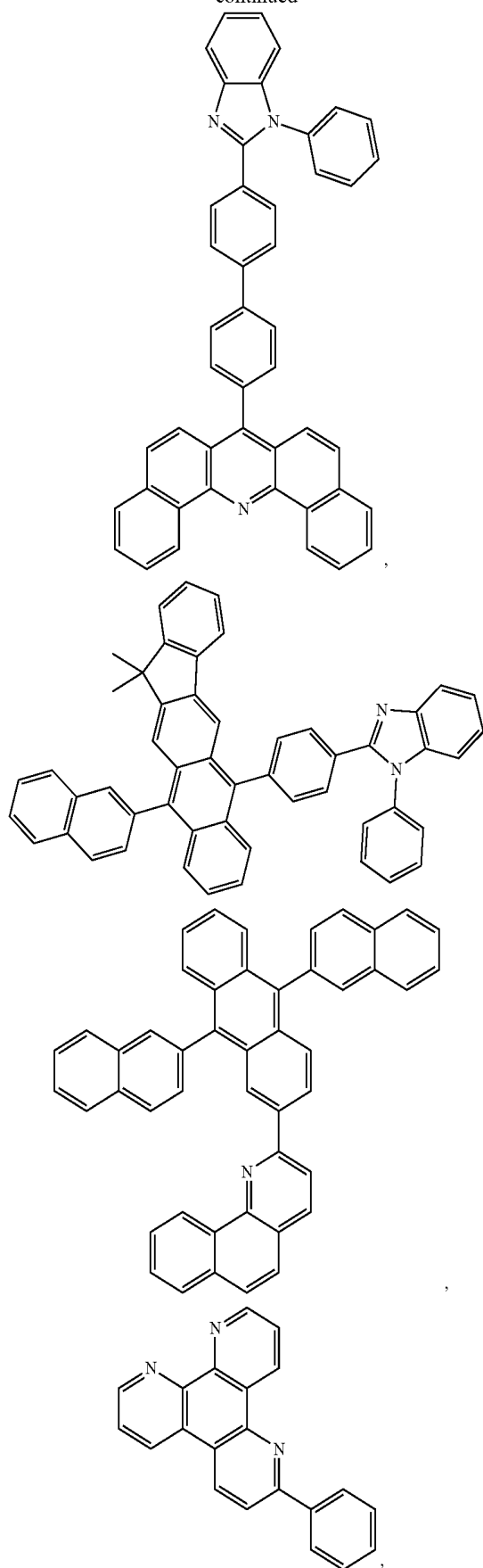
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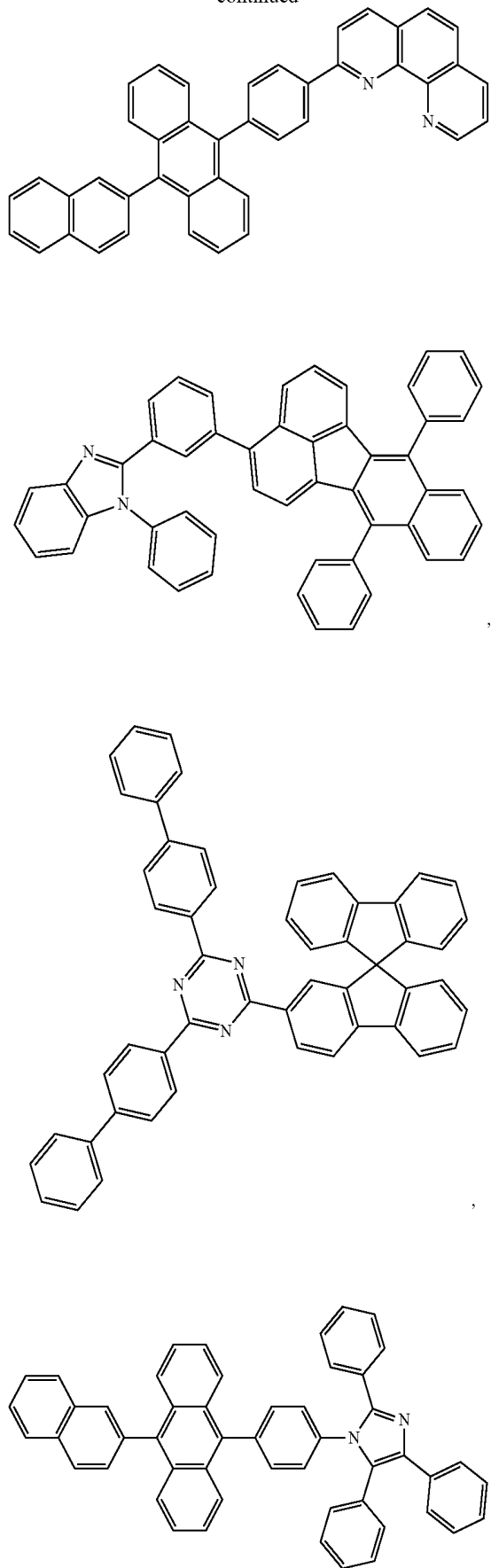
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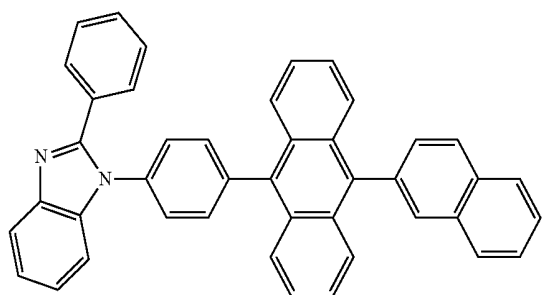
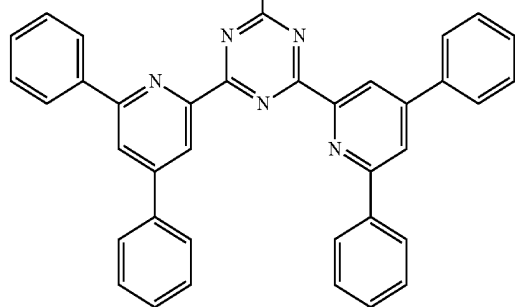
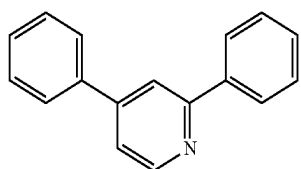
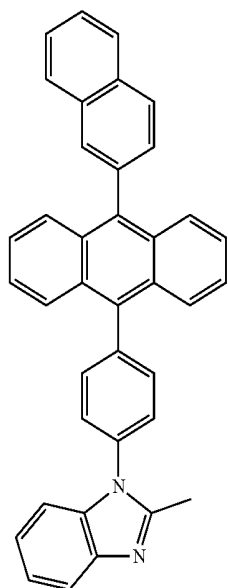
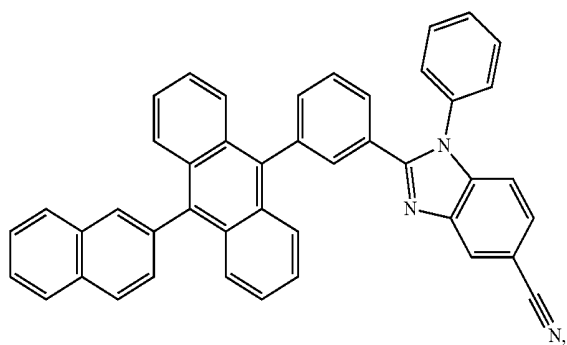
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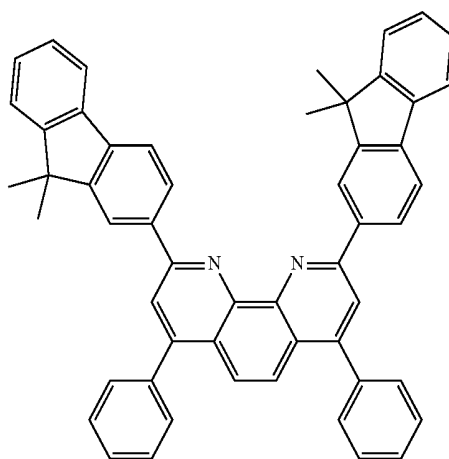
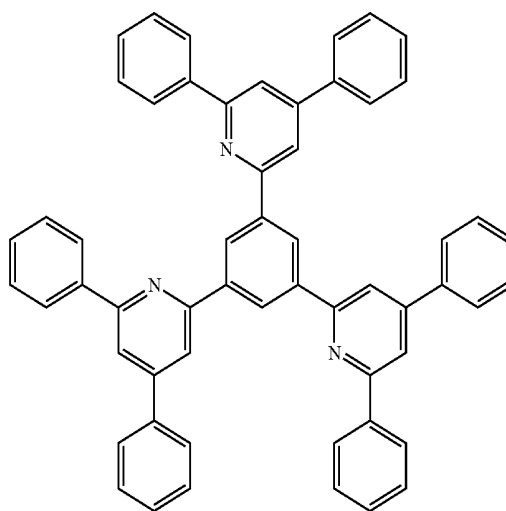
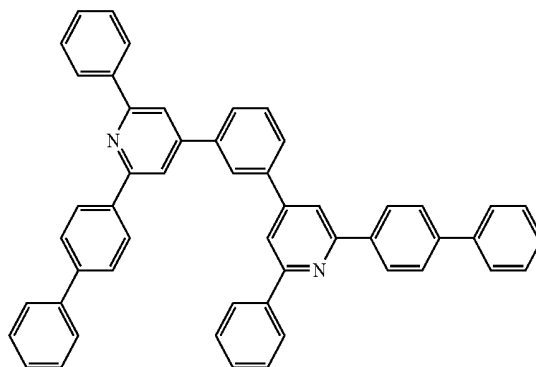
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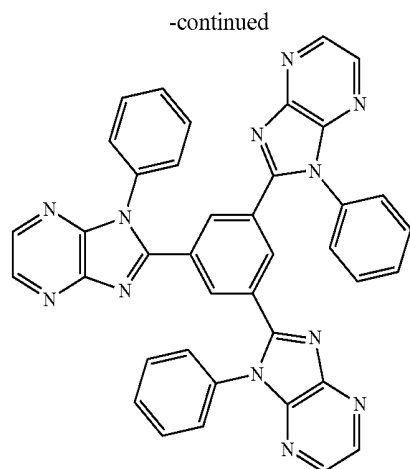
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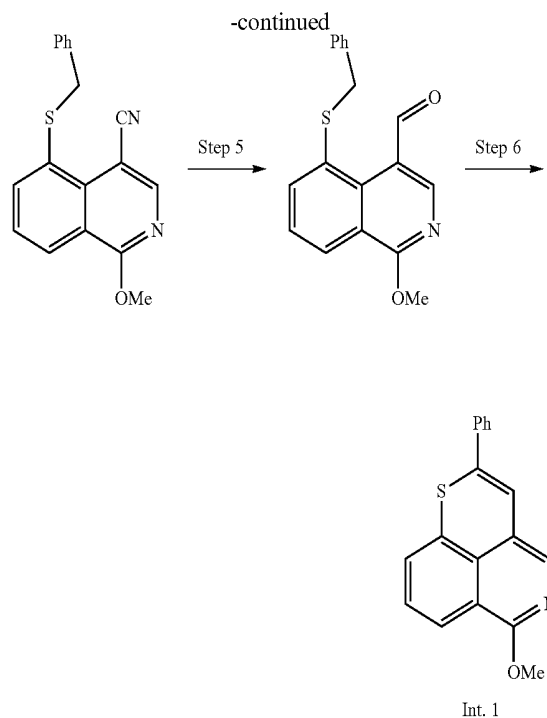
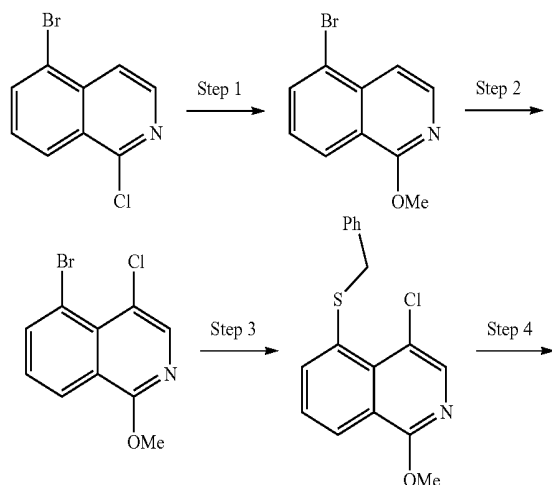
Charge Generation Layer (CGL)

[0184] In tandem or stacked OLEDs, the CGL plays an essential role in the performance, which is composed of an n-doped layer and a p-doped layer for injection of electrons and holes, respectively. Electrons and holes are supplied from the CGL and electrodes. The consumed electrons and holes in the CGL are refilled by the electrons and holes injected from the cathode and anode, respectively; then, the bipolar currents reach a steady state gradually. Typical CGL materials include n and p conductivity dopants used in the transport layers.

[0185] In any above-mentioned compounds used in each layer of the OLED device, the hydrogen atoms can be partially or fully deuterated. Thus, any specifically listed substituent, such as, without limitation, methyl, phenyl, pyridyl, etc. may be undeuterated, partially deuterated, and fully deuterated versions thereof. Similarly, classes of substituents such as, without limitation, alkyl, aryl, cycloalkyl, heteroaryl, etc. also may be undeuterated, partially deuterated, and fully deuterated versions thereof.

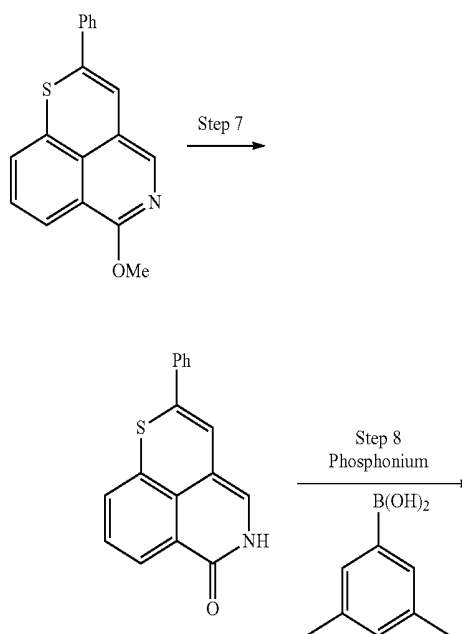
EXPERIMENTAL

[0186] Based on literature report, an inventive compound can be synthesized using the following synthetic Scheme:

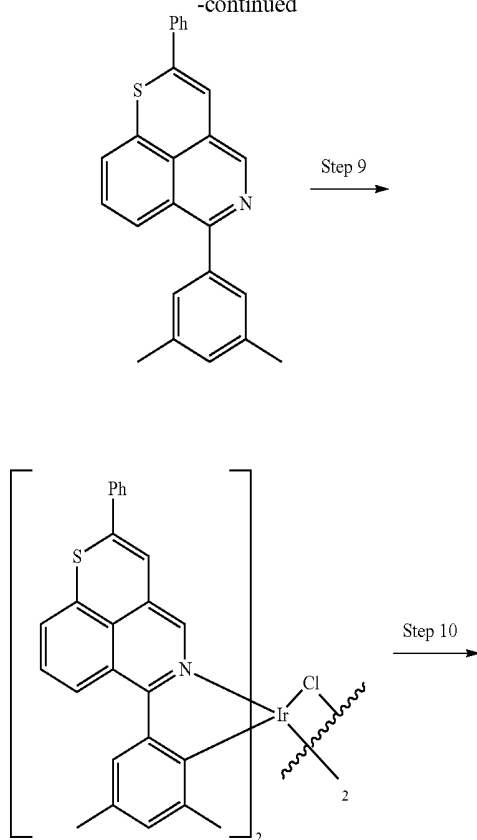


Steps 1 and 2 are well reported in the literature. Step 3 is a sulfide synthesis and is performed as described in Y.-C. Wong, T. T. Jayanth, C.-H. Cheng, *Org. Lett.*, 2006, 8, 5613-5616. Step 4 cyanation is performed in a similar fashion described in D. T. Cohen, S. L. Buchwald, *Org. Lett.*, 2015, 17, 202-205. Step 5 formylation from a benzonitrile is a well-known reaction. The final step is performed through either Wittig (phosphonium) chemistry or under strongly basic conditions to force the ring closure.

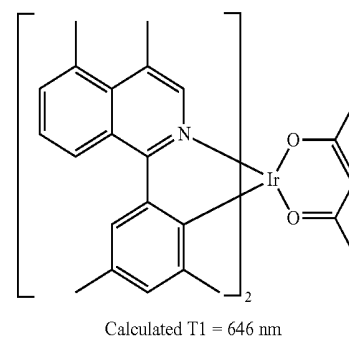
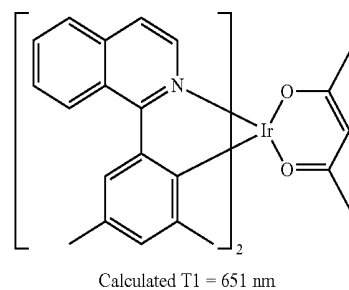
[0187] Once intermediate compound Int. 1 is made, the final compound can be afforded using the following pathway:



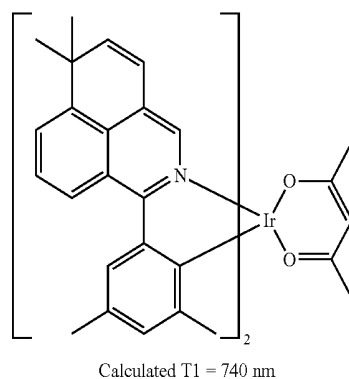
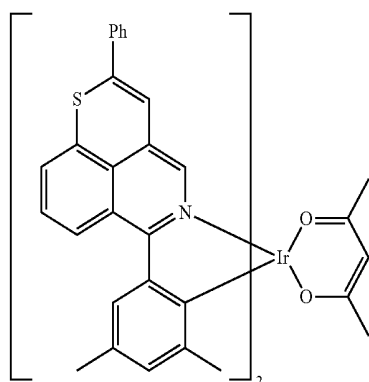
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Comparative Compounds.

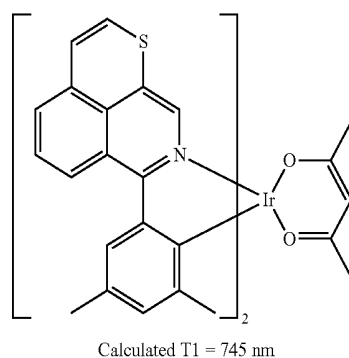
[0189]

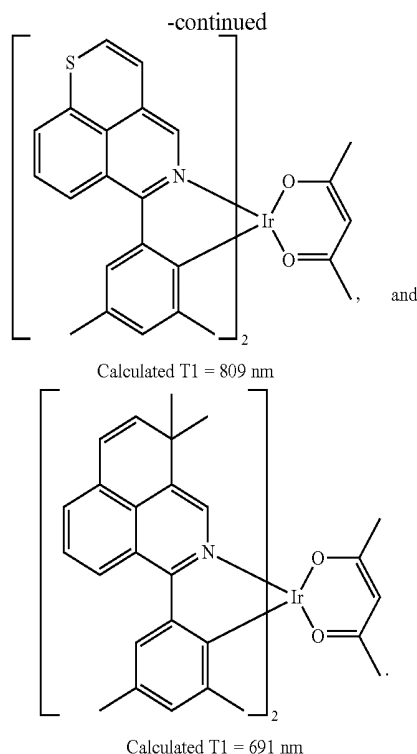
Inventive Compounds.

[0190]

Step 7 is a de-methylation which is performed by treating the starting material in solution with BBr_3 . Step 8 is a two steps one pot type of reaction where the first step is to make the phosphonium intermediate and then treat it with dimethyl-phenyl boronic acid as described in J. Org. Chem. 2005, 70, 1957. The second to last step (Step 9) is the formation of the chloro bridged dimer, it is made in a similar fashion as in US 20180240988 A1. This reference is also used for the synthesis of the final compound where the dimer is treated with the diketone ancillary ligand in basic conditions.

[0188] Density functional theory (DFT) was performed on multiple potential materials to fully evaluate the effect of the current invention on the color of emission. Here, the calculated T1 Energy is shown:





As can be observed from these DFT calculations, the inventive compounds show a large red shift effect. This effect can make the above compound usable as Near Infrared (NIR emitters) which was not possible for the Comparative Compounds.

[0191] The calculations obtained with the above-identified DFT functional set and basis set are theoretical. Computational composite protocols, such as the Gaussian09 with B3LYP and CEP-31G protocol used herein, rely on the assumption that electronic effects are additive and, therefore, larger basis sets can be used to extrapolate to the complete basis set (CBS) limit. However, when the goal of a study is to understand variations in HOMO, LUMO, S1, T1, bond dissociation energies, etc. over a series of structurally-related compounds, the additive effects are expected to be similar. Accordingly, while absolute errors from using the B3LYP may be significant compared to other computational methods, the relative differences between the HOMO, LUMO, S1, T1, and bond dissociation energy values calculated with B3LYP protocol are expected to reproduce experiment quite well. See, e.g., Hong et al., *Chem. Mater.* 2016, 28, 5791-98, 5792-93 and Supplemental Information (discussing the reliability of DFT calculations in the context of OLED materials). Moreover, with respect to iridium or platinum complexes that are useful in the OLED art, the data obtained from DFT calculations correlates very well to actual experimental data. See Tavasli et al., *J. Mater. Chem.* 2012, 22, 6419-29, 6422 (Table 3) (showing DFT calculations closely correlating with actual data for a variety of emissive complexes); Morello, G. R., *J. Mol. Model.* 2017, 23:174 (studying of a variety of DFT functional sets and basis sets and concluding the combination of B3LYP and CEP-31G is particularly accurate for emissive complexes).

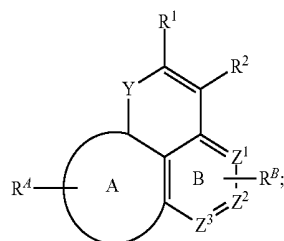
[0192] It is understood that the various embodiments described herein are by way of example only, and are not intended to limit the scope of the invention. For example,

many of the materials and structures described herein may be substituted with other materials and structures without deviating from the spirit of the invention. The present invention as claimed may therefore include variations from the particular examples and preferred embodiments described herein, as will be apparent to one of skill in the art. It is understood that various theories as to why the invention works are not intended to be limiting.

We claim:

1. A compound comprising:

a first ligand L^A of Formula I



wherein,

Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

Z^1 , Z^2 , and Z^3 are each independently selected from the group comprising C and N;

Y is selected from the group consisting of O, S, Se, NR^3 , CRR^1 , $SiRR^1$, $GeRR^1$, and a single bond;

a metal M forms a direct bond to Ring A or Ring B;

M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au;

R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution;

R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl, cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

the ligand L^A is optionally linked with other ligands to form a ligand having a denticity of tridentate to a maximum possible denticity to which M can coordinate;

any two substituents may be joined or fused together to form a ring, provided that R^1 and R^2 are not joined to form a 6-membered aromatic ring when Y is a single bond; and

M is optionally coordinated to other ligands.

2. The compound of claim 1, wherein R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, heteroalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, aryl, heteroaryl, nitrile, isonitrile, sulfanyl, and combinations thereof.

3. The compound of claim 1, wherein M is selected from the group consisting of Ir and Pt.

4. The compound of claim 1, wherein Y is a single bond or selected from the group consisting of O, S, and NR³.

5. The compound of claim 1, wherein one of R^A or R^B comprises a benzene ring, that is bonded to M.

6. The compound of claim 1, wherein one of R^A or R^B comprises a pyridine ring, that is bonded to M.

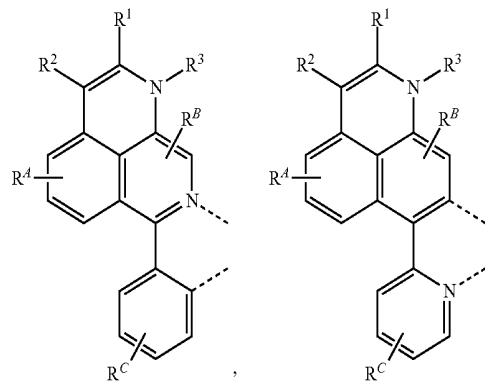
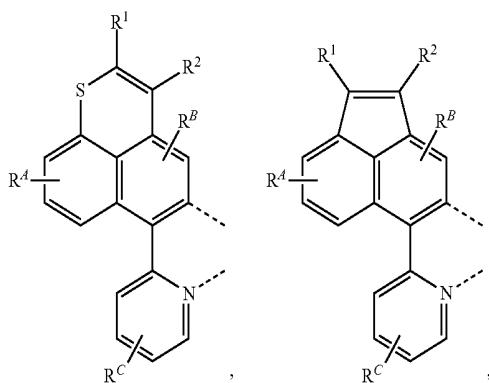
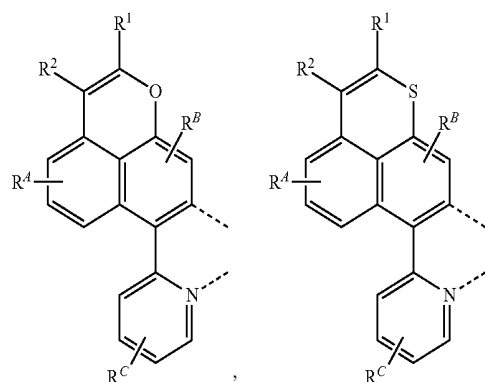
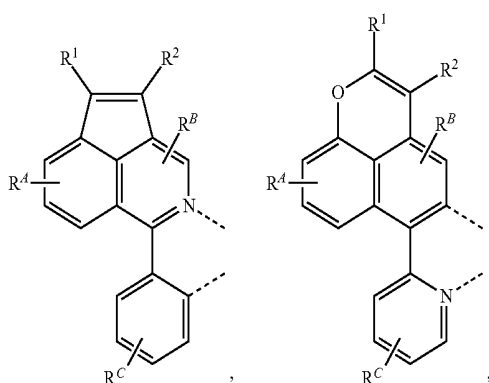
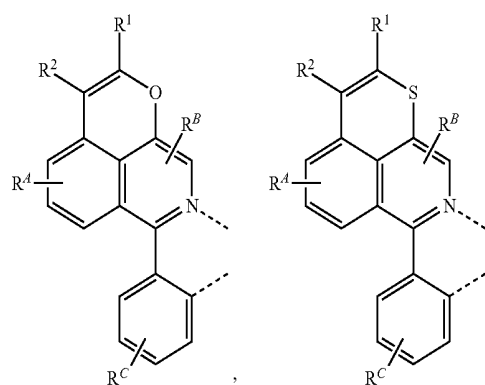
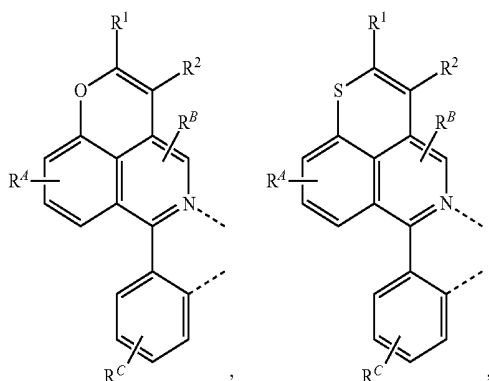
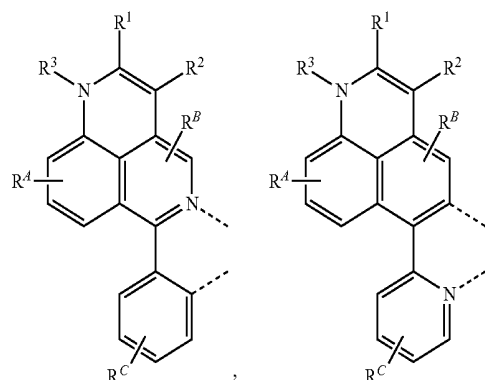
7. The compound of claim 1, wherein one of Z¹, Z², and Z³ is N and forms a dative bond to M, and the remaining two of Z¹, Z², and Z³ is C.

8. The compound of claim 1, wherein Ring A contains an N atom that forms a dative bond to M.

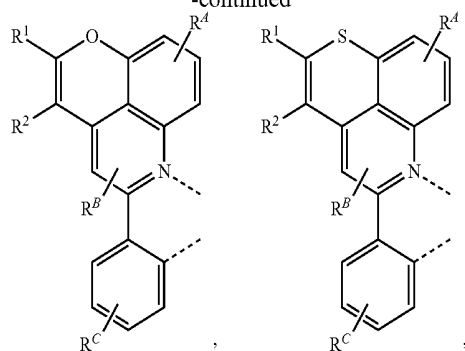
9. The compound of claim 1, wherein Ring A is a 5-membered aromatic ring or a 6-membered aromatic ring.

10. The compound of claim 1, wherein the first ligand L_A is selected from the group consisting of:

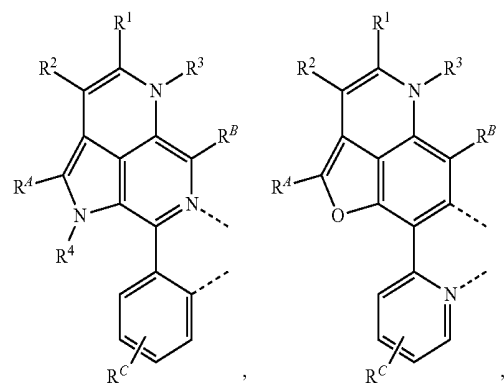
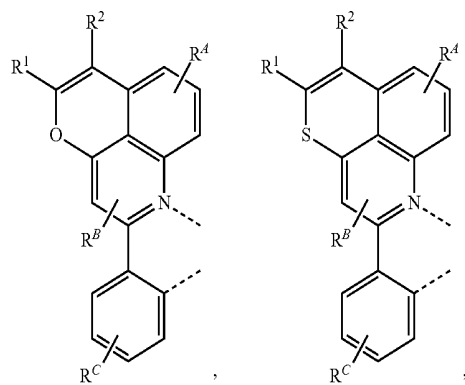
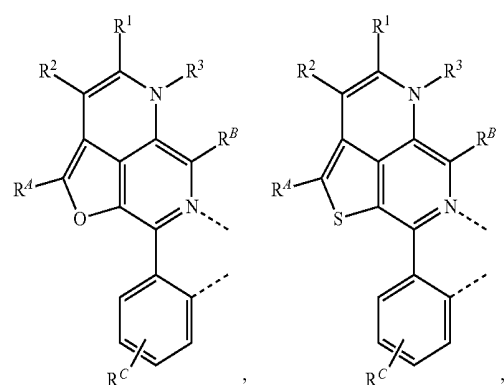
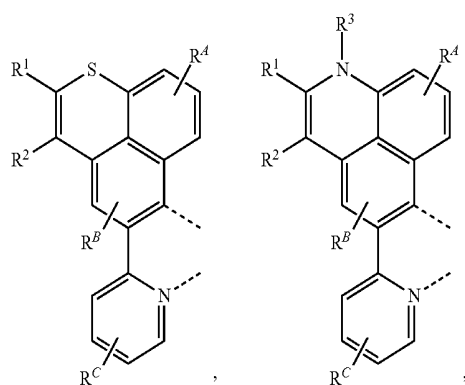
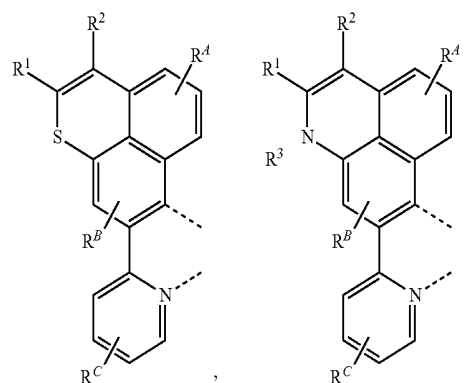
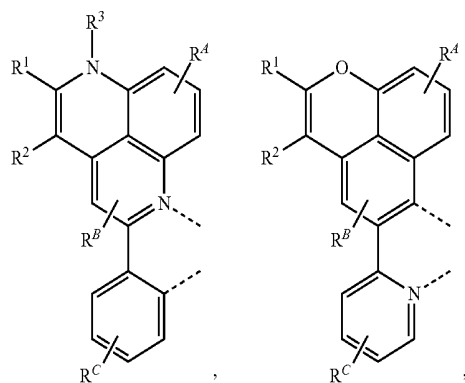
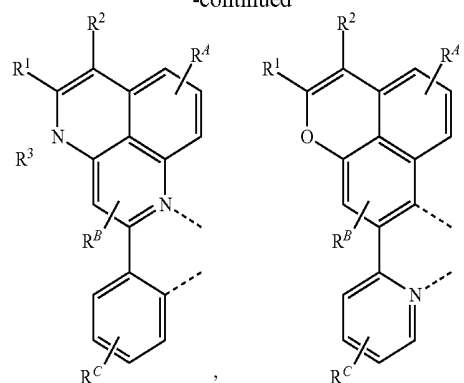
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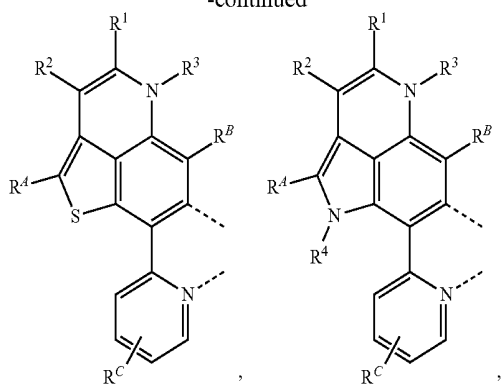
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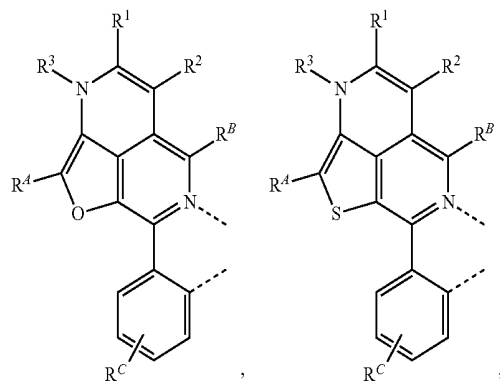
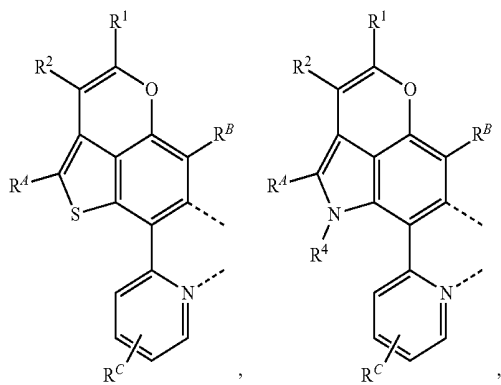
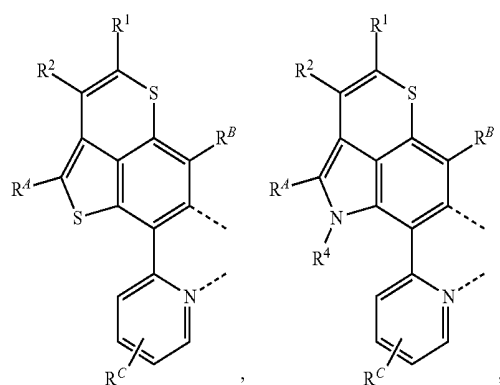
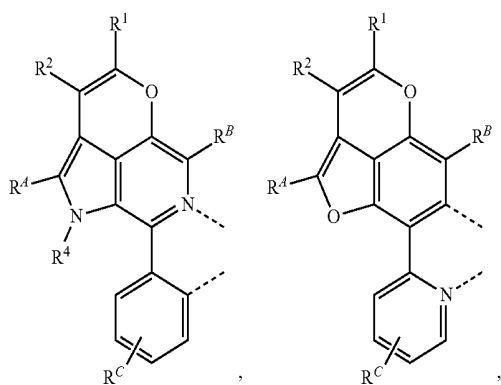
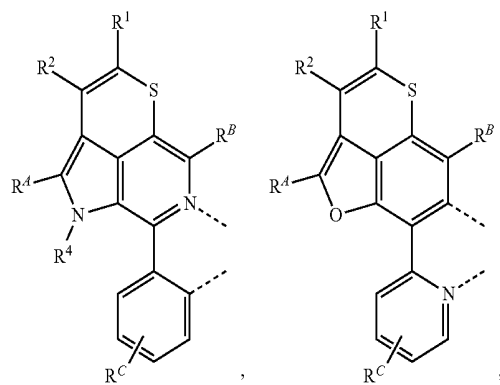
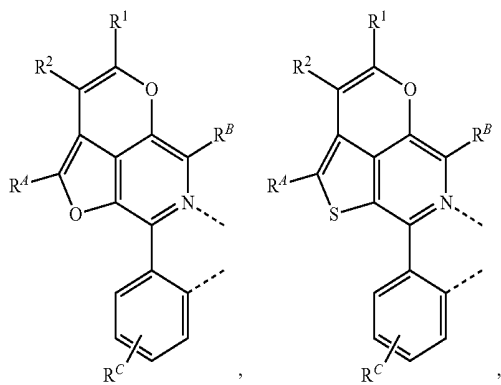
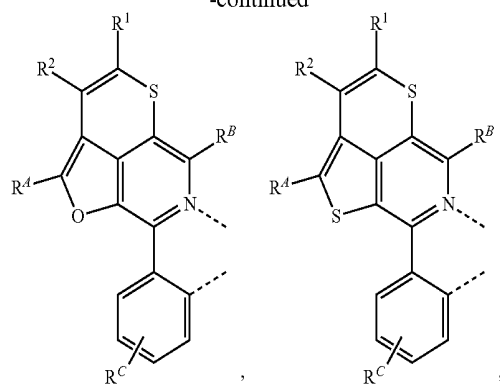
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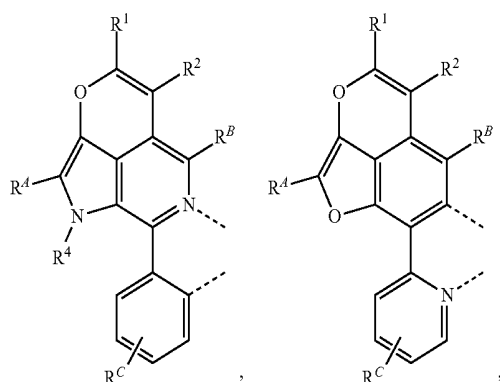
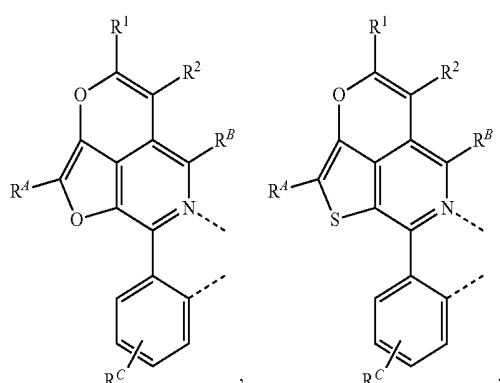
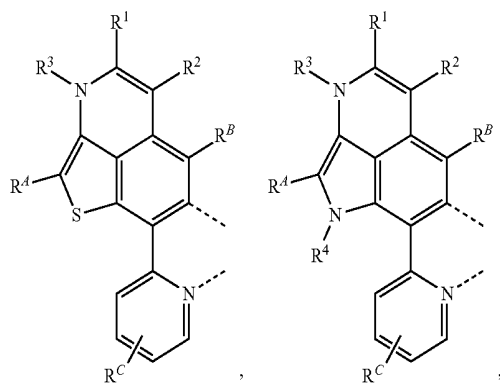
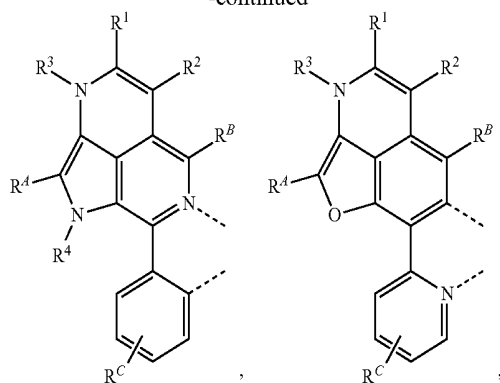
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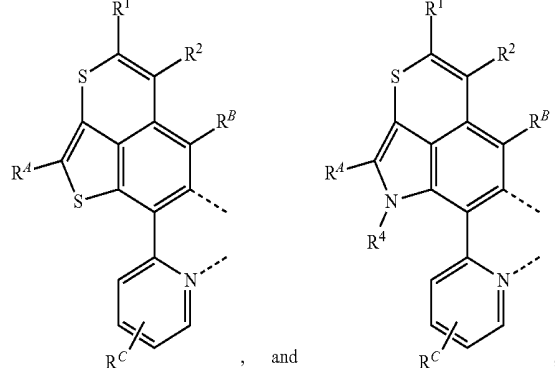
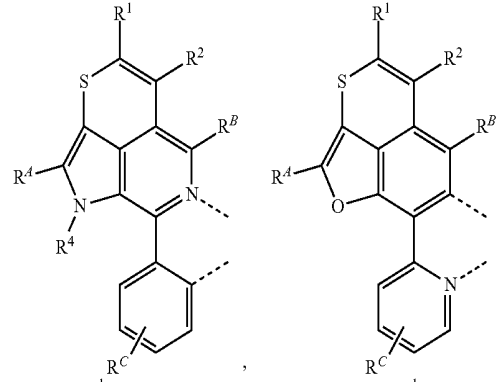
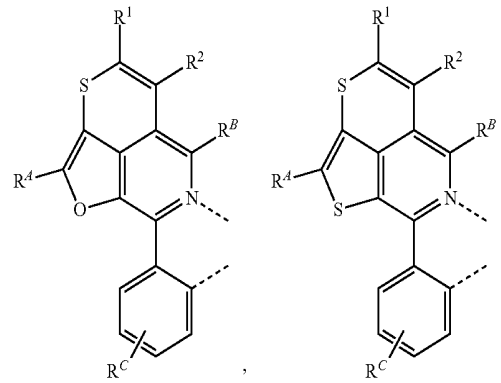
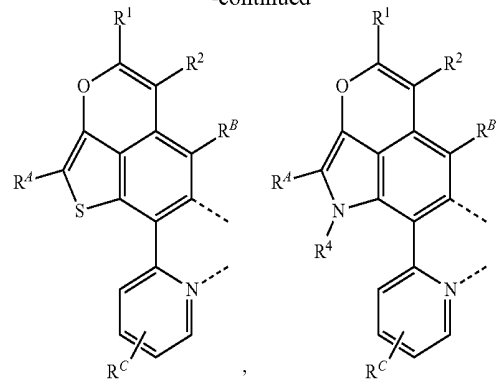
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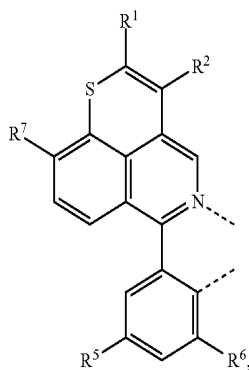


wherein,

R^C represents mono to a maximum possible number of substitutions, or no substitution; and

R^C and R^4 are each independently a hydrogen or a substituent selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, heteroalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, aryl, heteroaryl, nitrile, isonitrile, sulfanyl, and combinations thereof.

11. The compound of claim 1, wherein L_A is selected from the group consisting of L_{A1} through L_{A294} having structures of Formula I



wherein R^1 , R^2 , R^5 , R^6 , and R^7 are defined as follows:

Ligand	R^1	R^2	R^7	R^6	R^5
L_{A1}	H	H	H	H	H
L_{A2}	R^{B1}	H	H	H	H
L_{A3}	R^{B1}	R^{B1}	H	H	H
L_{A4}	R^{B1}	R^{B1}	R^{B1}	H	H
L_{A5}	R^{B1}	H	R^{B1}	H	H
L_{A6}	H	H	R^{B1}	H	H
L_{A7}	H	H	H	R^{B1}	R^{B1}
L_{A8}	R^{B1}	H	H	R^{B1}	R^{B1}
L_{A9}	R^{B1}	R^{B1}	H	R^{B1}	R^{B1}
L_{A10}	R^{B1}	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{A11}	R^{B1}	H	R^{B1}	R^{B1}	R^{B1}
L_{A12}	H	H	R^{B1}	R^{B1}	R^{B1}
L_{A13}	H	H	H	R^{B44}	R^{B44}
L_{A14}	R^{B1}	H	H	R^{B44}	R^{B44}
L_{A15}	R^{B1}	R^{B1}	H	R^{B44}	R^{B44}
L_{A16}	R^{B1}	R^{B1}	R^{B1}	R^{B44}	R^{B44}
L_{A17}	R^{B1}	H	R^{B1}	R^{B44}	R^{B44}
L_{A18}	H	H	R^{B1}	R^{B44}	R^{B44}
L_{A19}	H	H	R^{A34}	H	H
L_{A20}	R^{B1}	H	R^{A34}	H	H
L_{A21}	H	R^{B1}	R^{A34}	H	H
L_{A22}	R^{B1}	R^{B1}	R^{A34}	H	H
L_{A23}	H	H	R^{A34}	R^{B1}	R^{B1}
L_{A24}	R^{B1}	H	R^{A34}	R^{B1}	R^{B1}
L_{A25}	H	R^{B1}	R^{A34}	R^{B1}	R^{B1}
L_{A26}	R^{B1}	R^{B1}	R^{A34}	R^{B1}	R^{B1}
L_{A27}	H	H	R^{A34}	R^{B44}	R^{B44}
L_{A28}	R^{B1}	H	R^{A34}	R^{B44}	R^{B44}
L_{A29}	H	R^{B1}	R^{A34}	R^{B44}	R^{B44}
L_{A30}	R^{B1}	R^{B1}	R^{A34}	R^{B44}	R^{B44}
L_{A31}	H	H	R^{B18}	H	H
L_{A32}	R^{B1}	H	R^{B18}	H	H
L_{A33}	H	R^{B1}	R^{B18}	H	H
L_{A34}	R^{B1}	R^{B1}	R^{B18}	H	H
L_{A35}	H	H	R^{B18}	R^{B1}	R^{B1}
L_{A36}	R^{B1}	H	R^{B18}	R^{B1}	R^{B1}
L_{A37}	H	R^{B1}	R^{B18}	R^{B1}	R^{B1}
L_{A38}	R^{B1}	R^{B1}	R^{B18}	R^{B1}	R^{B1}
L_{A39}	H	H	R^{B18}	R^{B44}	R^{B44}
L_{A40}	R^{B1}	H	R^{B18}	R^{B44}	R^{B44}
L_{A41}	H	R^{B1}	R^{B18}	R^{B44}	R^{B44}
L_{A42}	R^{B1}	R^{B1}	R^{B18}	R^{B44}	R^{B44}
L_{A43}	H	H	R^{B3}	H	H
L_{A44}	R^{B1}	H	R^{B3}	H	H
L_{A45}	H	R^{B1}	R^{B3}	H	H
L_{A46}	R^{B1}	R^{B1}	R^{B3}	H	H
L_{A47}	H	H	R^{B3}	R^{B1}	R^{B1}
L_{A48}	R^{B1}	H	R^{B3}	R^{B1}	R^{B1}
L_{A49}	H	R^{B1}	R^{B3}	R^{B1}	R^{B1}
L_{A50}	R^{B1}	R^{B1}	R^{B3}	R^{B1}	R^{B1}
L_{A51}	H	H	R^{B3}	R^{B44}	R^{B44}
L_{A52}	R^{B1}	H	R^{B3}	R^{B44}	R^{B44}

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Ligand	R^1	R^2	R^7	R^6	R^5
L_{A53}	H	R^{B1}	R^{B3}	R^{B44}	R^{B44}
L_{A54}	R^{B1}	R^{B1}	R^{B3}	R^{B44}	R^{B44}
L_{A55}	H	H	R^{B4}	H	H
L_{A56}	R^{B1}	H	R^{B4}	H	H
L_{A57}	H	R^{B1}	R^{B4}	H	H
L_{A58}	R^{B1}	R^{B1}	R^{B4}	H	H
L_{A59}	H	H	R^{B4}	R^{B1}	R^{B1}
L_{A60}	R^{B1}	H	R^{B4}	R^{B1}	R^{B1}
L_{A61}	H	R^{B1}	R^{B4}	R^{B1}	R^{B1}
L_{A62}	R^{B1}	R^{B1}	R^{B4}	R^{B1}	R^{B1}
L_{A63}	H	H	R^{B4}	R^{B44}	R^{B44}
L_{A64}	R^{B1}	H	R^{B4}	R^{B44}	R^{B44}
L_{A65}	H	R^{B1}	R^{B4}	R^{B44}	R^{B44}
L_{A66}	R^{B1}	R^{B1}	R^{B4}	R^{B44}	R^{B44}
L_{A67}	H	H	R^{B7}	H	H
L_{A68}	R^{B1}	H	R^{B7}	H	H
L_{A69}	H	R^{B1}	R^{B7}	H	H
L_{A70}	R^{B1}	R^{B1}	R^{B7}	H	H
L_{A71}	H	H	R^{B7}	R^{B1}	R^{B1}
L_{A72}	R^{B1}	H	R^{B7}	R^{B1}	R^{B1}
L_{A73}	H	R^{B1}	R^{B7}	R^{B1}	R^{B1}
L_{A74}	R^{B1}	R^{B1}	R^{B7}	R^{B1}	R^{B1}
L_{A75}	H	H	R^{B7}	R^{B44}	R^{B44}
L_{A76}	R^{B1}	H	R^{B7}	R^{B44}	R^{B44}
L_{A77}	H	R^{B1}	R^{B7}	R^{B44}	R^{B44}
L_{A78}	R^{B1}	R^{B1}	R^{B7}	R^{B44}	R^{B44}
L_{A79}	R^{B3}	H	H	H	H
L_{A80}	R^{B3}	R^{B1}	H	H	H
L_{A81}	R^{B3}	R^{B1}	R^{B1}	H	H
L_{A82}	R^{B3}	H	R^{B1}	H	H
L_{A83}	R^{B3}	H	H	R^{B1}	R^{B1}
L_{A84}	R^{B3}	R^{B1}	H	R^{B1}	R^{B1}
L_{A85}	R^{B3}	R^{B1}	R^{B1}	R^{B1}	R^{B1}
L_{A86}	R^{B3}	H	R^{B1}	R^{B1}	R^{B1}
L_{A87}	R^{B3}	H	H	R^{B44}	R^{B44}
L_{A88}	R^{B3}	R^{B1}	H	R^{B44}	R^{B44}
L_{A89}	R^{B3}	R^{B1}	R^{B1}	R^{B44}	R^{B44}
L_{A90}	R^{B3}	H	R^{B1}	R^{B44}	R^{B44}
L_{A91}	R^{B3}	H	R^{A34}	H	H
L_{A92}	R^{B3}	R^{A34}	H	H	H
L_{A93}	R^{B3}	R^{B1}	R^{A34}	H	H
L_{A94}	R^{B3}	R^{A34}	R^{B1}	H	H
L_{A95}	R^{B3}	H	R^{A34}	R^{B1}	R^{B1}
L_{A96}	R^{B3}	R^{A34}	H	R^{B1}	R^{B1}
L_{A97}	R^{B3}	R^{B1}	R^{A34}	R^{B1}	R^{B1}
L_{A98}	R^{B3}	R^{A34}	R^{B1}	R^{B1}	R^{B1}
L_{A99}	R^{B3}	H	R^{A34}	R^{B44}	R^{B44}
L_{A100}	R^{B3}	R^{A34}	H	R^{B44}	R^{B44}
L_{A101}	R^{B3}	R^{A34}	R^{B1}	R^{B44}	R^{B44}
L_{A102}	R^{B3}	R^{A34}	R^{B1}	R^{B44}	R^{B44}
L_{A103}	R^{B3}	H	R^{B18}	H	H
L_{A104}	R^{B3}	R^{B1}	R^{B18}	H	H
L_{A105}	R^{B3}	R^{B1}	R^{B18}	H	H
L_{A106}	R^{B3}	R^{B18}	R^{B1}	H	H
L_{A107}	R^{B3}	H	R^{B18}	R^{B1}	R^{B1}
L_{A108}	R^{B3}	R^{B18}	H	R^{B1}	R^{B1}
L_{A109}	R^{B3}	R^{B1}	R^{B18}	R^{B1}	R^{B1}
L_{A110}	R^{B3}	R^{B18}	R^{B1}	R^{B1}	R^{B1}
L_{A111}	R^{B3}	H	R^{B18}	R^{B44}	R^{B44}
L_{A112}	R^{B3}	R^{B18}	H	R^{B44}	R^{B44}
L_{A113}	R^{B3}	R^{B1}	R^{B18}	R^{B44}	R^{B44}
L_{A114}	R^{B3}	R^{B18}	R^{B1}	R^{B44}	R^{B44}
L_{A115}	R^{B3}	H	R^{B3}	H	H
L_{A116}	R^{B3}	R^{B3}	H	H	H
L_{A117}	R^{B3}	R^{B1}	R^{B3}	H	H
L_{A118}	R^{B3}	R^{B3}	R^{B1}	H	H
L_{A119}	R^{B3}	H	R^{B3}	R^{B1}	R^{B1}
L_{A120}	R^{B3}	R^{B3}	H	R^{B1}	R^{B1}
L_{A121}	R^{B3}	R^{B1}	R^{B3}	R^{B1}	R^{B1}
L_{A122}	R^{B3}	R^{B3}	R^{B1}	R^{B1}	R^{B1}
L_{A123}	R^{B3}	H	R^{B3}	R^{B44}	R^{B44}
L_{A124}	R^{B3}	R^{B3}	H	R^{B44}	R^{B44}
L_{A125}	R^{B3}	R^{B1}	R^{B3}	R^{B44}	R^{B44}
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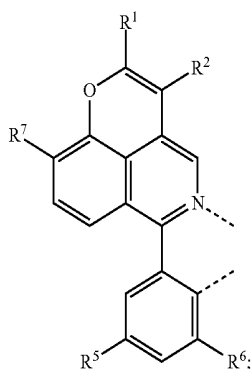
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₂₇	R ^{B3}	H	R ^{B4}	H	H
L ₄₁₂₈	R ^{B3}	R ^{B4}	H	H	H
L ₄₁₂₉	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₁₃₀	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₁₃₁	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₃₂	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₁₃₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₃₄	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₃₅	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₃₆	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₁₃₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₃₈	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₃₉	R ^{B3}	H	R ^{B7}	H	H
L ₄₁₄₀	R ^{B3}	R ^{B7}	H	H	H
L ₄₁₄₁	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₁₄₂	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₁₄₃	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₄₄	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₁₄₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₄₆	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₄₇	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₄₈	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₁₄₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₅₀	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₅₁	R ^{B2}	H	H	H	H
L ₄₁₅₂	R ^{B2}	R ^{B1}	H	H	H
L ₄₁₅₃	R ^{B2}	R ^{B1}	R ^{B1}	H	H
L ₄₁₅₄	R ^{B2}	H	R ^{B1}	H	H
L ₄₁₅₅	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₁₅₆	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₅₇	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₅₈	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₅₉	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₁₆₀	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₆₁	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₆₂	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₆₃	R ^{B2}	H	R ⁴³⁴	H	H
L ₄₁₆₄	R ^{B2}	R ⁴³⁴	H	H	H
L ₄₁₆₅	R ^{B2}	R ^{B1}	R ⁴³⁴	H	H
L ₄₁₆₆	R ^{B2}	R ⁴³⁴	R ^{B1}	H	H
L ₄₁₆₇	R ^{B2}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₆₈	R ^{B2}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₁₆₉	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₁₇₀	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₇₁	R ^{B2}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₇₂	R ^{B2}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₁₇₃	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₁₇₄	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₇₅	R ^{B2}	H	R ^{B18}	H	H
L ₄₁₇₆	R ^{B2}	R ^{B18}	H	H	H
L ₄₁₇₇	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₁₇₈	R ^{B2}	R ^{B18}	R ^{B1}	H	H
L ₄₁₇₉	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₀	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₁₈₁	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₂	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₃	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₄	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₁₈₅	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₆	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₇	R ^{B2}	H	R ^{B3}	H	H
L ₄₁₈₈	R ^{B2}	R ^{B3}	H	H	H
L ₄₁₈₉	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₁₉₀	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₁₉₁	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₂	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₁₉₃	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₄	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₅	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₆	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₁₉₇	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₈	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₉	R ^{B2}	H	R ^{B4}	H	H
L ₄₂₀₀	R ^{B2}	R ^{B4}	H	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₀₁	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₂₀₂	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₂₀₃	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₄	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₀₅	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₆	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₇	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₀₈	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₀₉	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₁₀	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₁₁	R ^{B2}	H	R ^{B7}	H	H
L ₄₂₁₂	R ^{B2}	R ^{B7}	H	H	H
L ₄₂₁₃	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₂₁₄	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₂₁₅	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₆	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₁₇	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₈	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₉	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₂₀	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₂₁	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₂₂	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₂₃	R ^{B4}	H	H	H	H
L ₄₂₂₄	R ^{B4}	R ^{B1}	H	H	H
L ₄₂₂₅	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₂₂₆	R ^{B4}	H	R ^{B1}	H	H
L ₄₂₂₇	R ^{B4}	H	H	R ^{B1}	R ^{B1}
L ₄₂₂₈	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₂₂₉	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₃₀	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₃₁	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₂₃₂	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₂₃₃	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₃₄	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₃₅	R ^{B4}	H	R ⁴³⁴	H	H
L ₄₂₃₆	R ^{B4}	R ⁴³⁴	H	H	H
L ₄₂₃₇	R ^{B4}	R ^{B1}	R ⁴³⁴	H	H
L ₄₂₃₈	R ^{B4}	R ⁴³⁴	R ^{B1}	H	H
L ₄₂₃₉	R ^{B4}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₄₀	R ^{B4}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₂₄₁	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₄₂	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₄₃	R ^{B4}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₄₄	R ^{B4}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₂₄₅	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₄₆	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₄₇	R ^{B4}	H	R ^{B18}	H	H
L ₄₂₄₈	R ^{B4}	R ^{B18}	H	H	H
L ₄₂₄₉	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₂₅₀	R ^{B4}	R ^{B18}	R ^{B1}	H	H
L ₄₂₅₁	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₅₂	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₂₅₃	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₅₄	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₅₅	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₅₆	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₂₅₇	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₅₈	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₅₉	R ^{B4}	H	R ^{B3}	H	H
L ₄₂₆₀	R ^{B4}	R ^{B3}	H	H	H
L ₄₂₆₁	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₂₆₂	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₂₆₃	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₆₄	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₂₆₅	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₆₆	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₆₇	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₆₈	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₂₆₉	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₇₀	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₇₁	R ^{B4}	H	R ^{B4}	H	H
L ₄₂₇₂	R ^{B4}	R ^{B4}	H	H	H
L ₄₂₇₃	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₂₇₄	R ^{B4}	R ^{B4}	R ^{B1}	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₇₅	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₇₆	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₇₇	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₇₈	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₇₉	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₈₀	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₈₁	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₈₂	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₈₃	R ^{B4}	H	R ^{B7}	H	H
L ₄₂₈₄	R ^{B4}	R ^{B7}	H	H	H
L ₄₂₈₅	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₂₈₆	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₂₈₇	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₈₈	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₈₉	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₉₀	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₉₁	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₉₂	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₉₃	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₉₄	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44} ,

L₄₂₉₅ through L₄₅₈₈ having structures of Formula IIwherein R¹, R², R⁵, R⁶, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₉₅	H	H	H	H	H
L ₄₂₉₆	R ^{B1}	H	H	H	H
L ₄₂₉₇	R ^{B1}	R ^{B1}	H	H	H
L ₄₂₉₈	R ^{B1}	R ^{B1}	R ^{B1}	H	H
L ₄₂₉₉	R ^{B1}	H	R ^{B1}	H	H
L ₄₃₀₀	H	H	R ^{B1}	H	H
L ₄₃₀₁	H	H	H	R ^{B1}	R ^{B1}
L ₄₃₀₂	R ^{B1}	H	H	R ^{B1}	R ^{B1}
L ₄₃₀₃	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₃₀₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₀₅	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₀₆	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₀₇	H	H	H	R ^{B44}	R ^{B44}
L ₄₃₀₈	R ^{B1}	H	H	R ^{B44}	R ^{B44}
L ₄₃₀₉	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₃₁₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₁₁	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₁₂	H	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₁₃	H	H	R ^{B44}	H	H
L ₄₃₁₄	R ^{B1}	H	R ^{B44}	H	H
L ₄₃₁₅	H	R ^{B1}	R ^{B44}	H	H
L ₄₃₁₆	R ^{B1}	R ^{B1}	R ^{B44}	H	H
L ₄₃₁₇	H	H	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₃₁₈	R ^{B1}	H	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₃₁₉	H	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₃₂₀	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₃₂₁	H	H	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₃₂₂	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B44}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₃₂₃	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₃₂₄	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₃₂₅	H	H	R ^{B18}	H	H
L ₄₃₂₆	R ^{B1}	H	R ^{B18}	H	H
L ₄₃₂₇	H	R ^{B1}	R ^{B18}	H	H
L ₄₃₂₈	R ^{B1}	R ^{B1}	R ^{B18}	H	H
L ₄₃₂₉	H	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₀	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₁	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₃₃₃	H	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₄	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₅	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₃₃₇	H	H	R ^{B3}	H	H
L ₄₃₃₈	R ^{B1}	H	R ^{B3}	H	H
L ₄₃₃₉	H	R ^{B1}	R ^{B3}	H	H
L ₄₃₄₀	R ^{B1}	R ^{B1}	R ^{B3}	H	H
L ₄₃₄₁	H	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₂	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₃	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₃₄₅	H	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₆	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₇	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₃₄₉	H	H	R ^{B4}	H	H
L ₄₃₅₀	R ^{B1}	H	R ^{B4}	H	H
L ₄₃₅₁	H	R ^{B1}	R ^{B4}	H	H
L ₄₃₅₂	R ^{B1}	R ^{B1}	R ^{B4}	H	H
L ₄₃₅₃	H	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₄	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₅	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₃₅₇	H	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₅₈	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₅₉	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₆₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₃₆₁	H	H	R ^{B7}	H	H
L ₄₃₆₂	R ^{B1}	H	R ^{B7}	H	H
L ₄₃₆₃	H	R ^{B1}	R ^{B7}	H	H
L ₄₃₆₄	R ^{B1}	R ^{B1}	R ^{B7}	H	H
L ₄₃₆₅	H	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₆	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₇	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₃₆₉	H	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₀	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₁	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₃₇₃	R ^{B3}	H	H	H	H
L ₄₃₇₄	R ^{B3}	R ^{B1}	H	H	H
L ₄₃₇₅	R ^{B3}	R ^{B1}	R ^{B1}	H	H
L ₄₃₇₆	R ^{B3}	H	R ^{B1}	H	H
L ₄₃₇₇	R ^{B3}	H	H	R ^{B1}	R ^{B1}
L ₄₃₇₈	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₃₇₉	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₈₀	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₈₁	R ^{B3}	H	H	R ^{B44}	R ^{B44}
L ₄₃₈₂	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₃₈₃	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₈₄	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₃₈₅	R ^{B3}	H	R ^{B44}	H	H
L ₄₃₈₆	R ^{B3}	R ^{B44}	H	H	H
L ₄₃₈₇	R ^{B3}	R ^{B1}	R ^{B44}	H	H
L ₄₃₈₈	R ^{B3}	R ^{B44}	R ^{B1}	H	H
L ₄₃₈₉	R ^{B3}	H	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₃₉₀	R ^{B3}	R ^{B44}	H	R ^{B1}	R ^{B1}
L ₄₃₉₁	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₃₉₂	R ^{B3}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₃₉₃	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₃₉₄	R ^{B3}	R ^{B44}	H	R ^{B44}	R ^{B44}
L ₄₃₉₅	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₃₉₆	R ^{B3}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}

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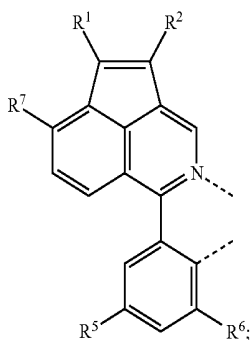
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₃₉₇	R ^{B3}	H	R ^{B18}	H	H
L ₄₃₉₈	R ^{B3}	R ^{B18}	H	H	H
L ₄₃₉₉	R ^{B3}	R ^{B1}	R ^{B18}	H	H
L ₄₄₀₀	R ^{B3}	R ^{B18}	R ^{B1}	H	H
L ₄₄₀₁	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₀₂	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₄₀₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₀₄	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₀₅	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₀₆	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₄₀₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₀₈	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₀₉	R ^{B3}	H	R ^{B3}	H	H
L ₄₄₁₀	R ^{B3}	R ^{B3}	H	H	H
L ₄₄₁₁	R ^{B3}	R ^{B1}	R ^{B3}	H	H
L ₄₄₁₂	R ^{B3}	R ^{B3}	R ^{B1}	H	H
L ₄₄₁₃	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₁₄	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₄₁₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₁₆	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₁₇	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₁₈	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₄₁₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₂₀	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₂₁	R ^{B3}	H	R ^{B4}	H	H
L ₄₄₂₂	R ^{B3}	R ^{B4}	H	H	H
L ₄₄₂₃	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₄₂₄	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₄₂₅	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₄₂₆	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₄₂₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₄₂₈	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₂₉	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₄₃₀	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₄₃₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₄₃₂	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₃₃	R ^{B3}	H	R ^{B7}	H	H
L ₄₄₃₄	R ^{B3}	R ^{B7}	H	H	H
L ₄₄₃₅	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₄₃₆	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₄₃₇	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₄₃₈	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₄₃₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₄₄₀	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₄₁	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₄₄₂	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₄₄₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₄₄₄	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₄₅	R ^{B2}	H	H	H	H
L ₄₄₄₆	R ^{B2}	R ^{B1}	H	H	H
L ₄₄₄₇	R ^{B2}	R ^{B1}	R ^{B1}	H	H
L ₄₄₄₈	R ^{B2}	H	R ^{B1}	H	H
L ₄₄₄₉	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₄₅₀	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₄₅₁	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₅₂	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₅₃	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₄₅₄	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₄₅₅	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₅₆	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₅₇	R ^{B2}	H	R ⁴³⁴	H	H
L ₄₄₅₈	R ^{B2}	R ⁴³⁴	H	H	H
L ₄₄₅₉	R ^{B2}	R ^{B1}	R ⁴³⁴	H	H
L ₄₄₆₀	R ^{B2}	R ⁴³⁴	R ^{B1}	H	H
L ₄₄₆₁	R ^{B2}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₄₆₂	R ^{B2}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₄₆₃	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₄₆₄	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₆₅	R ^{B2}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₄₆₆	R ^{B2}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₄₆₇	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₄₆₈	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₆₉	R ^{B2}	H	R ^{B18}	H	H
L ₄₄₇₀	R ^{B2}	R ^{B18}	H	H	H

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₄₇₁	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₄₇₂	R ^{B2}	R ^{B18}	R ^{B1}	H	H
L ₄₄₇₃	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₇₄	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₄₇₅	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₄₇₆	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₇₇	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₇₈	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₄₇₉	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₄₈₀	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₈₁	R ^{B2}	H	R ^{B3}	H	H
L ₄₄₈₂	R ^{B2}	R ^{B3}	H	H	H
L ₄₄₈₃	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₄₈₄	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₄₈₅	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₈₆	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₄₈₇	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₄₈₈	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₄₈₉	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₉₀	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₄₉₁	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₄₉₂	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₄₉₃	R ^{B2}	H	R ^{B4}	H	H
L ₄₄₉₄	R ^{B2}	R ^{B4}	H	H	H
L ₄₄₉₅	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₄₉₆	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₄₉₇	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₄₉₈	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₄₉₉	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₅₀₀	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₀₁	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₀₂	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₅₀₃	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₀₄	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₀₅	R ^{B2}	H	R ^{B7}	H	H
L ₄₅₀₆	R ^{B2}	R ^{B7}	H	H	H
L ₄₅₀₇	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₅₀₈	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₅₀₉	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₁₀	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₅₁₁	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₁₂	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₁₃	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₁₄	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₅₁₅	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₁₆	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₁₇	R ^{B4}	H	H	H	H
L ₄₅₁₈	R ^{B4}	R ^{B1}	H	H	H
L ₄₅₁₉	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₅₂₀	R ^{B4}	H	R ^{B1}	H	H
L ₄₅₂₁	R ^{B4}	H	H	R ^{B1}	R ^{B1}
L ₄₅₂₂	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₅₂₃	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₂₄	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₂₅	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₅₂₆	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₅₂₇	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₂₈	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₂₉	R ^{B4}	H	R ⁴³⁴	H	H
L ₄₅₃₀	R ^{B4}	R ⁴³⁴	H	H	H
L ₄₅₃₁	R ^{B4}	R ^{B1}	R ⁴³⁴	H	H
L ₄₅₃₂	R ^{B4}	R ⁴³⁴	R ^{B1}	H	H
L ₄₅₃₃	R ^{B4}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₅₃₄	R ^{B4}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₅₃₅	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₅₃₆	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₃₇	R ^{B4}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₅₃₈	R ^{B4}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₅₃₉	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₅₄₀	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₄₁	R ^{B4}	H	R ^{B18}	H	H
L ₄₅₄₂	R ^{B4}	R ^{B18}	H	H	H
L ₄₅₄₃	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₅₄₄	R ^{B4}	R ^{B18}	R ^{B1}	H	H

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₅₄₅	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₅₄₆	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₅₄₇	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₅₄₈	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₄₉	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₅₅₀	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₅₅₁	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₅₅₂	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₅₃	R ^{B4}	H	R ^{B3}	H	H
L ₄₅₅₄	R ^{B4}	R ^{B3}	H	H	H
L ₄₅₅₅	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₅₅₆	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₅₅₇	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₅₅₈	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₅₅₉	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₅₆₀	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₆₁	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₅₆₂	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₅₆₃	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₅₆₄	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₆₅	R ^{B4}	H	R ^{B4}	H	H
L ₄₅₆₆	R ^{B4}	R ^{B4}	H	H	H
L ₄₅₆₇	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₅₆₈	R ^{B4}	R ^{B4}	R ^{B1}	H	H
L ₄₅₆₉	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₅₇₀	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₅₇₁	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₅₇₂	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₇₃	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₇₄	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₅₇₅	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₅₇₆	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₅₇₇	R ^{B4}	H	R ^{B7}	H	H
L ₄₅₇₈	R ^{B4}	R ^{B7}	H	H	H
L ₄₅₇₉	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₅₈₀	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₅₈₁	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₈₂	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₅₈₃	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₅₈₄	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₈₅	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₈₆	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₅₈₇	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₅₈₈	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

L₄₅₈₉ through L₄₈₈₂ having structures of Formula IIIwherein R¹, R², R⁵, R⁶, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₅₈₉	H	H	H	H	H
L ₄₅₉₀	R ^{B1}	H	H	H	H
L ₄₅₉₁	R ^{B1}	R ^{B1}	H	H	H
L ₄₅₉₂	R ^{B1}	R ^{B1}	R ^{B1}	H	H
L ₄₅₉₃	R ^{B1}	H	R ^{B1}	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₅₉₄	H	H	R ^{B1}	H	H
L ₄₅₉₅	H	H	H	R ^{B1}	R ^{B1}
L ₄₅₉₆	R ^{B1}	H	H	R ^{B1}	R ^{B1}
L ₄₅₉₇	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₅₉₈	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₅₉₉	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₀₀	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₀₁	H	H	H	R ^{B44}	R ^{B44}
L ₄₆₀₂	R ^{B1}	H	H	R ^{B44}	R ^{B44}
L ₄₆₀₃	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₆₀₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₀₅	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₀₆	H	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₀₇	H	H	R ⁴³⁴	H	H
L ₄₆₀₈	R ^{B1}	H	R ⁴³⁴	H	H
L ₄₆₀₉	H	R ^{B1}	R ⁴³⁴	H	H
L ₄₆₁₀	R ^{B1}	R ^{B1}	R ⁴³⁴	H	H
L ₄₆₁₁	H	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₂	R ^{B1}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₃	H	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₄	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₁₅	H	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₆	R ^{B1}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₇	H	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₈	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₁₉	H	H	R ^{B18}	H	H
L ₄₆₂₀	R ^{B1}	H	R ^{B18}	H	H
L ₄₆₂₁	H	R ^{B1}	R ^{B18}	H	H
L ₄₆₂₂	R ^{B1}	R ^{B1}	R ^{B18}	H	H
L ₄₆₂₃	H	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₄	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₅	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₂₇	H	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₂₈	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₂₉	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₃₀	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₆₃₁	H	H	R ^{B3}	H	H
L ₄₆₃₂	R ^{B1}	H	R ^{B3}	H	H
L ₄₆₃₃	H	R ^{B1}	R ^{B3}	H	H
L ₄₆₃₄	R ^{B1}	R ^{B1}	R ^{B3}	H	H
L ₄₆₃₅	H	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₆	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₇	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₆₃₉	H	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₀	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₁	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₆₄₃	H	H	R ^{B4}	H	H
L ₄₆₄₄	R ^{B1}	H	R ^{B4}	H	H
L ₄₆₄₅	H	R ^{B1}	R ^{B4}	H	H
L ₄₆₄₆	R ^{B1}	R ^{B1}	R ^{B4}	H	H
L ₄₆₄₇	H	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₄₈	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₄₉	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₅₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₆₅₁	H	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₂	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₃	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₆₅₅	H	H	R ^{B7}	H	H
L ₄₆₅₆	R ^{B1}	H	R ^{B7}	H	H
L ₄₆₅₇	H	R ^{B1}	R ^{B7}	H	H
L ₄₆₅₈	R ^{B1}	R ^{B1}	R ^{B7}	H	H
L ₄₆₅₉	H	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₀	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₁	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₆₆₃	H	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₄	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₅	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₆₆₇	R ^{B3}	H	H	H	H

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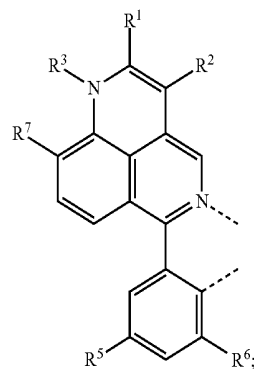
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₆₆₈	R ^{B3}	R ^{B1}	H	H	H
L ₄₆₆₉	R ^{B3}	R ^{B1}	R ^{B1}	H	H
L ₄₆₇₀	R ^{B3}	H	R ^{B1}	H	H
L ₄₆₇₁	R ^{B3}	H	H	R ^{B1}	R ^{B1}
L ₄₆₇₂	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₆₇₃	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₇₄	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₇₅	R ^{B3}	H	H	R ^{B44}	R ^{B44}
L ₄₆₇₆	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₆₇₇	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₇₈	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₇₉	R ^{B3}	H	R ⁴³⁴	H	H
L ₄₆₈₀	R ^{B3}	R ⁴³⁴	H	H	H
L ₄₆₈₁	R ^{B3}	R ^{B1}	R ⁴³⁴	H	H
L ₄₆₈₂	R ^{B3}	R ⁴³⁴	R ^{B1}	H	H
L ₄₆₈₃	R ^{B3}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₈₄	R ^{B3}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₆₈₅	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₆₈₆	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₈₇	R ^{B3}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₈₈	R ^{B3}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₆₈₉	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₆₉₀	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₆₉₁	R ^{B3}	H	R ^{B18}	H	H
L ₄₆₉₂	R ^{B3}	R ^{B18}	H	H	H
L ₄₆₉₃	R ^{B3}	R ^{B1}	R ^{B18}	H	H
L ₄₆₉₄	R ^{B3}	R ^{B18}	R ^{B1}	H	H
L ₄₆₉₅	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₉₆	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₆₉₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₆₉₈	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₆₉₉	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₀₀	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₇₀₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₀₂	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₀₃	R ^{B3}	H	R ^{B3}	H	H
L ₄₇₀₄	R ^{B3}	R ^{B3}	H	H	H
L ₄₇₀₅	R ^{B3}	R ^{B1}	R ^{B3}	H	H
L ₄₇₀₆	R ^{B3}	R ^{B3}	R ^{B1}	H	H
L ₄₇₀₇	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₀₈	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₇₀₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₁₀	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₁₁	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₁₂	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₇₁₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₁₄	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₁₅	R ^{B3}	H	R ^{B4}	H	H
L ₄₇₁₆	R ^{B3}	R ^{B4}	H	H	H
L ₄₇₁₇	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₇₁₈	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₇₁₉	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₂₀	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₇₂₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₂₂	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₂₃	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₂₄	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₇₂₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₂₆	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₂₇	R ^{B3}	H	R ^{B7}	H	H
L ₄₇₂₈	R ^{B3}	R ^{B7}	H	H	H
L ₄₇₂₉	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₇₃₀	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₇₃₁	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₃₂	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₇₃₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₇₃₄	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₃₅	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₃₆	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₇₃₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₇₃₈	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₃₉	R ^{B2}	H	H	H	H
L ₄₇₄₀	R ^{B2}	R ^{B1}	H	H	H
L ₄₇₄₁	R ^{B2}	R ^{B1}	R ^{B1}	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₇₄₂	R ^{B2}	H	R ^{B1}	H	H
L ₄₇₄₃	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₇₄₄	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₇₄₅	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₄₆	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₄₇	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₇₄₈	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₇₄₉	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₅₀	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₅₁	R ^{B2}	H	R ⁴³⁴	H	H
L ₄₇₅₂	R ^{B2}	R ⁴³⁴	H	H	H
L ₄₇₅₃	R ^{B2}	R ^{B1}	R ⁴³⁴	H	H
L ₄₇₅₄	R ^{B2}	R ⁴³⁴	R ^{B1}	H	H
L ₄₇₅₅	R ^{B2}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₇₅₆	R ^{B2}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₇₅₇	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₇₅₈	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₅₉	R ^{B2}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₇₆₀	R ^{B2}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₇₆₁	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₇₆₂	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₆₃	R ^{B2}	H	R ^{B18}	H	H
L ₄₇₆₄	R ^{B2}	R ^{B18}	H	H	H
L ₄₇₆₅	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₇₆₆	R ^{B2}	R ^{B18}	R ^{B1}	H	H
L ₄₇₆₇	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₇₆₈	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₇₆₉	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₇₇₀	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₇₁	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₇₂	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₇₇₃	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₇₇₄	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₇₅	R ^{B2}	H	R ^{B3}	H	H
L ₄₇₇₆	R ^{B2}	R ^{B3}	H	H	H
L ₄₇₇₇	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₇₇₈	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₇₇₉	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₈₀	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₇₈₁	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₇₈₂	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₈₃	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₈₄	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₇₈₅	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₇₈₆	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₈₇	R ^{B2}	H	R ^{B4}	H	H
L ₄₇₈₈	R ^{B2}	R ^{B4}	H	H	H
L ₄₇₈₉	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₇₉₀	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₇₉₁	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₉₂	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₇₉₃	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₇₉₄	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₇₉₅	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₉₆	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₇₉₇	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₇₉₈	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₇₉₉	R ^{B2}	H	R ^{B7}	H	H
L ₄₈₀₀	R ^{B2}	R ^{B7}	H	H	H
L ₄₈₀₁	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₈₀₂	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₈₀₃	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₀₄	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₈₀₅	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₀₆	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₀₇	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₀₈	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₈₀₉	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₁₀	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₁₁	R ^{B2}	H	H	H	H
L ₄₈₁₂	R ^{B4}	R ^{B1}	H	H	H
L ₄₈₁₃	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₈₁₄	R ^{B4}	H	R ^{B1}	H	H
L ₄₈₁₅	R ^{B4}	H	H	R ^{B1}	R ^{B1}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₈₁₆	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₈₁₇	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₁₈	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₁₉	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₈₂₀	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₈₂₁	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₂₂	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₂₃	R ^{B4}	H	R ⁴³⁴	H	H
L ₄₈₂₄	R ^{B4}	R ⁴³⁴	H	H	H
L ₄₈₂₅	R ^{B4}	R ^{B1}	R ⁴³⁴	H	H
L ₄₈₂₆	R ^{B4}	R ⁴³⁴	R ^{B1}	H	H
L ₄₈₂₇	R ^{B4}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₈₂₈	R ^{B4}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₈₂₉	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₈₃₀	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₃₁	R ^{B4}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₈₃₂	R ^{B4}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₈₃₃	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₈₃₄	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₃₅	R ^{B4}	H	R ^{B18}	H	H
L ₄₈₃₆	R ^{B4}	R ^{B18}	H	H	H
L ₄₈₃₇	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₈₃₈	R ^{B4}	R ^{B18}	R ^{B1}	H	H
L ₄₈₃₉	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₈₄₀	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₈₄₁	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₈₄₂	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₄₃	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₈₄₄	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₈₄₅	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₈₄₆	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₄₇	R ^{B4}	H	R ^{B3}	H	H
L ₄₈₄₈	R ^{B4}	R ^{B3}	H	H	H
L ₄₈₄₉	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₈₅₀	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₈₅₁	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₈₅₂	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₈₅₃	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₈₅₄	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₅₅	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₈₅₆	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₈₅₇	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₈₅₈	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₅₉	R ^{B4}	H	R ^{B4}	H	H
L ₄₈₆₀	R ^{B4}	R ^{B4}	H	H	H
L ₄₈₆₁	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₈₆₂	R ^{B4}	R ^{B4}	R ^{B1}	H	H
L ₄₈₆₃	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₈₆₄	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₈₆₅	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₈₆₆	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₆₇	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₈₆₈	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₈₆₉	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₈₇₀	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₈₇₁	R ^{B4}	H	R ^{B7}	H	H
L ₄₈₇₂	R ^{B4}	R ^{B7}	H	H	H
L ₄₈₇₃	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₈₇₄	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₈₇₅	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₇₆	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₈₇₇	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₈₇₈	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₇₉	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₈₀	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₈₈₁	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₈₈₂	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

L₄₈₈₃ through L₄₈₃₄ having structures of Formula IVwherein R¹, R², R³, R⁵, R⁶, and R⁷ are defined:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₈₈₃	H	H	H	H	H	R ^{B1}
L ₄₈₈₄	R ^{B1}	H	H	H	H	R ^{B1}
L ₄₈₈₅	R ^{B1}	R ^{B1}	H	H	H	R ^{B1}
L ₄₈₈₆	R ^{B1}	R ^{B1}	R ^{B1}	H	H	R ^{B1}
L ₄₈₈₇	R ^{B1}	H	R ^{B1}	H	H	R ^{B1}
L ₄₈₈₈	H	H	R ^{B1}	H	H	R ^{B1}
L ₄₈₈₉	H	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₉₀	R ^{B1}	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₉₁	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₉₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₉₃	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₉₄	H	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₈₉₅	H	H	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₈₉₆	R ^{B1}	H	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₈₉₇	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₈₉₈	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₈₉₉	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₀₀	H	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₀₁	H	H	R ⁴³⁴	H	H	R ^{B1}
L ₄₉₀₂	R ^{B1}	H	R ⁴³⁴	H	H	R ^{B1}
L ₄₉₀₃	H	R ^{B1}	R ⁴³⁴	H	H	R ^{B1}
L ₄₉₀₄	R ^{B1}	R ^{B1}	R ⁴³⁴	H	H	R ^{B1}
L ₄₉₀₅	H	H	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₀₆	R ^{B1}	H	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₀₇	H	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₀₈	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₀₉	H	H	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₁₀	R ^{B1}	H	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₁₁	H	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₁₂	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₁₃	H	H	R ^{B18}	H	H	R ^{B1}
L ₄₉₁₄	R ^{B1}	H	R ^{B18}	H	H	R ^{B1}
L ₄₉₁₅	H	R ^{B1}	R ^{B18}	H	H	R ^{B1}
L ₄₉₁₆	R ^{B1}	R ^{B1}	R ^{B18}	H	H	R ^{B1}
L ₄₉₁₇	H	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₁₈	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₁₉	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₂₀	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₂₁	H	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₂₂	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₂₃	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₂₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₂₅	H	H	R ^{B3}	H	H	R ^{B1}
L ₄₉₂₆	R ^{B1}	H	R ^{B3}	H	H	R ^{B1}
L ₄₉₂₇	H	R ^{B1}	R ^{B3}	H	H	R ^{B1}
L ₄₉₂₈	R ^{B1}	R ^{B1}	R ^{B3}	H	H	R ^{B1}
L ₄₉₂₉	H	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₃₀	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₃₁	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₃₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₃₃	H	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₃₄	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₉₃₅	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₃₆	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₃₇	H	H	R ^{B4}	H	H	R ^{B1}
L ₄₉₃₈	R ^{B1}	H	R ^{B4}	H	H	R ^{B1}
L ₄₉₃₉	H	R ^{B1}	R ^{B4}	H	H	R ^{B1}
L ₄₉₄₀	R ^{B1}	R ^{B1}	R ^{B4}	H	H	R ^{B1}
L ₄₉₄₁	H	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₄₂	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₄₃	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₄₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₄₅	H	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₄₆	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₄₇	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₄₈	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₄₉	H	H	R ^{B7}	H	H	R ^{B1}
L ₄₉₅₀	R ^{B1}	H	R ^{B7}	H	H	R ^{B1}
L ₄₉₅₁	H	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₄₉₅₂	R ^{B1}	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₄₉₅₃	H	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₅₄	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₅₅	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₅₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₅₇	H	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₅₈	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₅₉	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₆₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₆₁	R ^{B3}	H	H	H	H	R ^{B1}
L ₄₉₆₂	R ^{B3}	R ^{B1}	H	H	H	R ^{B1}
L ₄₉₆₃	R ^{B3}	R ^{B1}	R ^{B1}	H	H	R ^{B1}
L ₄₉₆₄	R ^{B3}	H	R ^{B1}	H	H	R ^{B1}
L ₄₉₆₅	R ^{B3}	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₆₆	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₆₇	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₆₈	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₆₉	R ^{B3}	H	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₇₀	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₇₁	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₇₂	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₇₃	R ^{B3}	H	R ⁴³⁴	H	H	R ^{B1}
L ₄₉₇₄	R ^{B3}	R ⁴³⁴	H	H	H	R ^{B1}
L ₄₉₇₅	R ^{B3}	R ^{B1}	R ⁴³⁴	H	H	R ^{B1}
L ₄₉₇₆	R ^{B3}	R ⁴³⁴	R ^{B1}	H	H	R ^{B1}
L ₄₉₇₇	R ^{B3}	H	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₇₈	R ^{B3}	R ⁴³⁴	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₇₉	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₈₀	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₈₁	R ^{B3}	H	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₈₂	R ^{B3}	R ⁴³⁴	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₈₃	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₈₄	R ^{B3}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₈₅	R ^{B3}	H	R ^{B18}	H	H	R ^{B1}
L ₄₉₈₆	R ^{B3}	R ^{B18}	H	H	H	R ^{B1}
L ₄₉₈₇	R ^{B3}	R ^{B1}	R ^{B18}	H	H	R ^{B1}
L ₄₉₈₈	R ^{B3}	R ^{B18}	R ^{B1}	H	H	R ^{B1}
L ₄₉₈₉	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₉₀	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₉₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₉₂	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₉₉₃	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₉₄	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₉₅	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₉₆	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₉₉₇	R ^{B3}	H	R ^{B3}	H	H	R ^{B1}
L ₄₉₉₈	R ^{B3}	R ^{B3}	H	H	H	R ^{B1}
L ₄₉₉₉	R ^{B3}	R ^{B1}	R ^{B3}	H	H	R ^{B1}
L ₁₁₀₀₀	R ^{B3}	R ^{B3}	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₀₁	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₀₂	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₀₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₀₄	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₀₅	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₀₆	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₀₇	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₀₈	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₁₁₀₀₉	R ^{B3}	H	R ^{B4}	H	H	R ^{B1}
L ₁₁₀₁₀	R ^{B3}	R ^{B4}	H	H	H	R ^{B1}
L ₁₁₀₁₁	R ^{B3}	R ^{B1}	R ^{B4}	H	H	R ^{B1}
L ₁₁₀₁₂	R ^{B3}	R ^{B4}	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₁₃	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₁₄	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₁₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₁₆	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₁₇	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₁₈	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₁₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₂₀	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₂₁	R ^{B3}	H	R ^{B7}	H	H	R ^{B1}
L ₁₁₀₂₂	R ^{B3}	R ^{B7}	H	H	H	R ^{B1}
L ₁₁₀₂₃	R ^{B3}	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₁₁₀₂₄	R ^{B3}	R ^{B7}	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₂₅	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₂₆	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₂₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₂₈	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₂₉	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₃₀	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₃₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₃₂	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₃₃	R ^{B2}	H	H	H	H	R ^{B1}
L ₁₁₀₃₄	R ^{B2}	R ^{B1}	H	H	H	R ^{B1}
L ₁₁₀₃₅	R ^{B2}	R ^{B1}	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₃₆	R ^{B2}	H	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₃₇	R ^{B2}	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₃₈	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₃₉	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₄₀	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₄₁	R ^{B2}	H	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₄₂	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₄₃	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₄₄	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₄₅	R ^{B2}	H	R ⁴³⁴	H	H	R ^{B1}
L ₁₁₀₄₆	R ^{B2}	R ⁴³⁴	H	H	H	R ^{B1}
L ₁₁₀₄₇	R ^{B2}	R ^{B1}	R ⁴³⁴	H	H	R ^{B1}
L ₁₁₀₄₈	R ^{B2}	R ⁴³⁴	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₄₉	R ^{B2}	H	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₅₀	R ^{B2}	R ⁴³⁴	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₅₁	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₅₂	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₅₃	R ^{B2}	H	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₅₄	R ^{B2}	R ⁴³⁴	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₅₅	R ^{B2}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₅₆	R ^{B2}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₅₇	R ^{B2}	H	R ^{B18}	H	H	R ^{B1}
L ₁₁₀₅₈	R ^{B2}	R ^{B18}	H	H	H	R ^{B1}
L ₁₁₀₅₉	R ^{B2}	R ^{B1}	R ^{B18}	H	H	R ^{B1}
L ₁₁₀₆₀	R ^{B2}	R ^{B18}	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₆₁	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₆₂	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₆₃	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₆₄	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₆₅	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₆₆	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₆₇	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₆₈	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₆₉	R ^{B2}	H	R ^{B3}	H	H	R ^{B1}
L ₁₁₀₇₀	R ^{B2}	R ^{B3}	H	H	H	R ^{B1}
L ₁₁₀₇₁	R ^{B2}	R ^{B1}	R ^{B3}	H	H	R ^{B1}
L ₁₁₀₇₂	R ^{B2}	R ^{B3}	R ^{B1}	H	H	R ^{B1}
L ₁₁₀₇₃	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₇₄	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₇₅	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₇₆	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₁₁₀₇₇	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₇₈	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₇₉	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₈₀	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₁₁₀₈₁	R ^{B2}	H	R ^{B4}	H	H	R ^{B1}
L ₁₁₀₈₂	R ^{B2}	R ^{B4}	H	H	H	R ^{B1}

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₀₈₃	R ^{B2}	R ^{B1}	R ^{B4}	H	H	R ^{B1}
L ₄₁₀₈₄	R ^{B2}	R ^{B4}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₈₅	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₆	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₇	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₈	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₈₉	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₀	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₁	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₂	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₀₉₃	R ^{B2}	H	R ^{B7}	H	H	R ^{B1}
L ₄₁₀₉₄	R ^{B2}	R ^{B7}	H	H	H	R ^{B1}
L ₄₁₀₉₅	R ^{B2}	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₄₁₀₉₆	R ^{B2}	R ^{B7}	R ^{B1}	H	H	R ^{B1}
L ₄₁₀₉₇	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₉₈	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₀₉₉	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₀₀	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₀₁	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₂	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₃	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₄	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₀₅	R ^{B4}	H	H	H	H	R ^{B1}
L ₄₁₁₀₆	R ^{B4}	R ^{B1}	H	H	H	R ^{B1}
L ₄₁₁₀₇	R ^{B4}	R ^{B1}	H	H	H	R ^{B1}
L ₄₁₁₀₈	R ^{B4}	H	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₀₉	R ^{B4}	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₀	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₁	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₂	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₁₃	R ^{B4}	H	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₄	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₅	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₆	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₁₇	R ^{B4}	H	R ^{B44}	H	H	R ^{B1}
L ₄₁₁₁₈	R ^{B4}	R ^{B44}	H	H	H	R ^{B1}
L ₄₁₁₁₉	R ^{B4}	R ^{B1}	R ^{B44}	H	H	R ^{B1}
L ₄₁₁₂₀	R ^{B4}	R ^{B44}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₂₁	R ^{B4}	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₂	R ^{B4}	R ^{B44}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₃	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₄	R ^{B4}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₂₅	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₆	R ^{B4}	R ^{B44}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₇	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₈	R ^{B4}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₂₉	R ^{B4}	H	R ^{B18}	H	H	R ^{B1}
L ₄₁₁₃₀	R ^{B4}	R ^{B18}	H	H	H	R ^{B1}
L ₄₁₁₃₁	R ^{B4}	R ^{B1}	R ^{B18}	H	H	R ^{B1}
L ₄₁₁₃₂	R ^{B4}	R ^{B18}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₃₃	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₄	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₅	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₆	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₃₇	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₃₈	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₃₉	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₄₀	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₄₁	R ^{B4}	H	R ^{B3}	H	H	R ^{B1}
L ₄₁₁₄₂	R ^{B4}	R ^{B3}	H	H	H	R ^{B1}
L ₄₁₁₄₃	R ^{B4}	R ^{B1}	R ^{B3}	H	H	R ^{B1}
L ₄₁₁₄₄	R ^{B4}	R ^{B3}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₄₅	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₆	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₇	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₈	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₄₉	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₀	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₁	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₂	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₅₃	R ^{B4}	H	R ^{B4}	H	H	R ^{B1}
L ₄₁₁₅₄	R ^{B4}	R ^{B4}	H	H	H	R ^{B1}
L ₄₁₁₅₅	R ^{B4}	R ^{B1}	R ^{B4}	H	H	R ^{B1}
L ₄₁₁₅₆	R ^{B4}	R ^{B4}	R ^{B1}	H	H	R ^{B1}

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₁₅₇	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₅₈	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₅₉	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₆₀	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₆₁	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₂	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₃	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₄	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₆₅	R ^{B4}	H	R ^{B7}	H	H	R ^{B1}
L ₄₁₁₆₆	R ^{B4}	R ^{B7}	H	H	H	R ^{B1}
L ₄₁₁₆₇	R ^{B4}	R ^{B1}	R ^{B7}	H	H	R ^{B1}
L ₄₁₁₆₈	R ^{B4}	R ^{B7}	R ^{B1}	H	H	R ^{B1}
L ₄₁₁₆₉	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₀	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₁	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₂	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₁₇₃	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₄	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₅	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₆	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B1}
L ₄₁₁₇₇	H	H	H	H	H	R ^{B3}
L ₄₁₁₇₈	R ^{B1}	H	H	H	H	R ^{B3}
L ₄₁₁₇₉	R ^{B1}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₁₈₀	R ^{B1}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₁₈₁	R ^{B1}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₁₈₂	H	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₁₈₃	H	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₄	R ^{B1}	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₅	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₇	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₈	H	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₁₈₉	H	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₀	R ^{B1}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₁	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₃	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₄	H	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₁₉₅	H	H	R ^{B44}	H	H	R ^{B3}
L ₄₁₁₉₆	R ^{B1}	H	R ^{B44}	H	H	R ^{B3}
L ₄₁₁₉₇	H	R ^{B1}	R ^{B44}	H	H	R ^{B3}
L ₄₁₁₉₈	R ^{B1}	R ^{B1}	R ^{B44}	H	H	R ^{B3}
L ₄₁₁₉₉	H	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₀	R ^{B1}	H	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₁	H	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₂	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₀₃	H	H	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₄	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₅	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₆	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₀₇	H	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₀₈	R ^{B1}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₀₉	H	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₁₀	R ^{B1}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₁₁	H	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₂	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₃	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₁₅	H	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₆	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₇	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₁₉	H	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₀	R ^{B1}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₁	H	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₂	R ^{B1}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₂₃	H	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₄	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₅	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₆	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₂₇	H	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₂₈	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₂₉	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₃₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}

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Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₂₃₁	H	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₂	R ^{B1}	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₃	H	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₄	R ^{B1}	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₂₃₅	H	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₆	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₇	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₈	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₃₉	H	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₀	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₁	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₄₃	H	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₄	R ^{B1}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₅	H	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₆	R ^{B1}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₂₄₇	H	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₄₈	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₄₉	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₅₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₅₁	H	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₂	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₃	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₄	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₅₅	R ^{B3}	H	H	H	H	R ^{B3}
L ₄₁₂₅₆	R ^{B3}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₂₅₇	R ^{B3}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₅₈	R ^{B3}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₅₉	R ^{B3}	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₀	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₁	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₂	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₆₃	R ^{B3}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₄	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₅	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₆	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₆₇	R ^{B3}	H	R ^{A34}	H	H	R ^{B3}
L ₄₁₂₆₈	R ^{B3}	R ^{A34}	H	H	H	R ^{B3}
L ₄₁₂₆₉	R ^{B3}	R ^{B1}	R ^{A34}	H	H	R ^{B3}
L ₄₁₂₇₀	R ^{B3}	R ^{A34}	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₇₁	R ^{B3}	H	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₂	R ^{B3}	R ^{A34}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₃	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₄	R ^{B3}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₇₅	R ^{B3}	H	R ^{A34}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₆	R ^{B3}	R ^{A34}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₇	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₈	R ^{B3}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₇₉	R ^{B3}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₈₀	R ^{B3}	R ^{B18}	H	H	H	R ^{B3}
L ₄₁₂₈₁	R ^{B3}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₂₈₂	R ^{B3}	R ^{B18}	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₈₃	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₄	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₅	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₆	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₈₇	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₈₈	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₈₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₉₀	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₂₉₁	R ^{B3}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₉₂	R ^{B3}	R ^{B3}	H	H	H	R ^{B3}
L ₄₁₂₉₃	R ^{B3}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₂₉₄	R ^{B3}	R ^{B3}	R ^{B1}	H	H	R ^{B3}
L ₄₁₂₉₅	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₆	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₇	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₈	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₂₉₉	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₀	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₂	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₀₃	R ^{B3}	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₃₀₄	R ^{B3}	R ^{B4}	H	H	H	R ^{B3}

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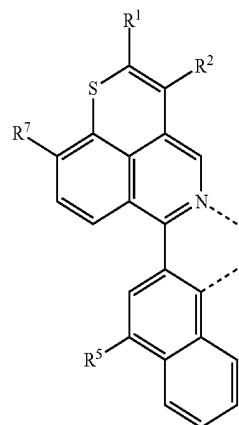
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₃₀₅	R ^{B3}	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₃₀₆	R ^{B3}	R ^{B4}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₀₇	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₀₈	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₀₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₁₀	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₁₁	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₂	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₄	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₁₅	R ^{B3}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₁₆	R ^{B3}	R ^{B7}	H	H	H	R ^{B3}
L ₄₁₃₁₇	R ^{B3}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₁₈	R ^{B3}	R ^{B7}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₁₉	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₀	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₂	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₂₃	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₄	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₆	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₂₇	R ^{B2}	H	H	H	H	R ^{B3}
L ₄₁₃₂₈	R ^{B2}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₃₂₉	R ^{B2}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₃₀	R ^{B2}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₃₁	R ^{B2}	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₂	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₃	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₄	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₃₅	R ^{B2}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₆	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₇	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₈	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₃₉	R ^{B2}	H	R ^{A34}	H	H	R ^{B3}
L ₄₁₃₄₀	R ^{B2}	R ^{A34}	H	H	H	R ^{B3}
L ₄₁₃₄₁	R ^{B2}	R ^{B1}	R ^{A34}	H	H	R ^{B3}
L ₄₁₃₄₂	R ^{B2}	R ^{A34}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₄₃	R ^{B2}	H	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₄	R ^{B2}	R ^{A34}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₅	R ^{B2}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₆	R ^{B2}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₄₇	R ^{B2}	H	R ^{A34}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₄₈	R ^{B2}	R ^{A34}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₄₉	R ^{B2}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₅₀	R ^{B2}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₅₁	R ^{B2}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₃₅₂	R ^{B2}	R ^{B18}	H	H	H	R ^{B3}
L ₄₁₃₅₃	R ^{B2}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₃₅₄	R ^{B2}	R ^{B18}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₅₅	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₆	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₇	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₈	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₅₉	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₀	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₁	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₂	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₆₃	R ^{B2}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₃₆₄	R ^{B2}	R ^{B3}	H	H	H	R ^{B3}
L ₄₁₃₆₅	R ^{B2}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₃₆₆	R ^{B2}	R ^{B3}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₆₇	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₆₈	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₆₉	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₇₀	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₇₁	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₂	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₃	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₄	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₇₅	R ^{B2}	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₃₇₆	R ^{B2}	R ^{B4}	H	H	H	R ^{B3}
L ₄₁₃₇₇	R ^{B2}	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₃₇₈	R ^{B2}	R ^{B4}	R ^{B1}	H	H	R ^{B3}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₃₇₉	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₀	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₁	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₂	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₈₃	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₄	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₅	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₆	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₈₇	R ^{B2}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₈₈	R ^{B2}	R ^{B7}	H	H	H	R ^{B3}
L ₄₁₃₈₉	R ^{B2}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₃₉₀	R ^{B2}	R ^{B7}	R ^{B1}	H	H	R ^{B3}
L ₄₁₃₉₁	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₂	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₃	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₄	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₃₉₅	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₆	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₇	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₈	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₃₉₉	R ^{B4}	H	H	H	H	R ^{B3}
L ₄₁₄₀₀	R ^{B4}	R ^{B1}	H	H	H	R ^{B3}
L ₄₁₄₀₁	R ^{B4}	R ^{B1}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₀₂	R ^{B4}	H	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₀₃	R ^{B4}	H	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₄	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₅	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₆	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₀₇	R ^{B4}	H	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₀₈	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₀₉	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₁₀	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₁₁	R ^{B4}	H	R ^{A34}	H	H	R ^{B3}
L ₄₁₄₁₂	R ^{B4}	R ^{A34}	H	H	H	R ^{B3}
L ₄₁₄₁₃	R ^{B4}	R ^{B1}	R ^{A34}	H	H	R ^{B3}
L ₄₁₄₁₄	R ^{B4}	R ^{A34}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₁₅	R ^{B4}	H	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₆	R ^{B4}	R ^{A34}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₇	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₈	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₁₉	R ^{B4}	H	R ^{A34}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₂₀	R ^{B4}	R ^{A34}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₂₁	R ^{B4}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₂₂	R ^{B4}	R ^{A34}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₂₃	R ^{B4}	H	R ^{B18}	H	H	R ^{B3}
L ₄₁₄₂₄	R ^{B4}	R ^{B18}	H	H	H	R ^{B3}
L ₄₁₄₂₅	R ^{B4}	R ^{B1}	R ^{B18}	H	H	R ^{B3}
L ₄₁₄₂₆	R ^{B4}	R ^{B18}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₂₇	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₂₈	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₂₉	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₃₀	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₃₁	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₂	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₃	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₄	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₃₅	R ^{B4}	H	R ^{B3}	H	H	R ^{B3}
L ₄₁₄₃₆	R ^{B4}	R ^{B3}	H	H	H	R ^{B3}
L ₄₁₄₃₇	R ^{B4}	R ^{B1}	R ^{B3}	H	H	R ^{B3}
L ₄₁₄₃₈	R ^{B4}	R ^{B3}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₃₉	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₀	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₁	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₂	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₄₃	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₄	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₅	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₆	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₄₇	R ^{B4}	H	R ^{B4}	H	H	R ^{B3}
L ₄₁₄₄₈	R ^{B4}	R ^{B4}	H	H	H	R ^{B3}
L ₄₁₄₄₉	R ^{B4}	R ^{B1}	R ^{B4}	H	H	R ^{B3}
L ₄₁₄₅₀	R ^{B4}	R ^{B4}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₅₁	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₅₂	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B3}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵	R ³
L ₄₁₄₅₃	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₅₄	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₅₅	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₆	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₇	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₈	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₅₉	R ^{B4}	H	R ^{B7}	H	H	R ^{B3}
L ₄₁₄₆₀	R ^{B4}	R ^{B7}	H	H	H	R ^{B3}
L ₄₁₄₆₁	R ^{B4}	R ^{B1}	R ^{B7}	H	H	R ^{B3}
L ₄₁₄₆₂	R ^{B4}	R ^{B7}	R ^{B1}	H	H	R ^{B3}
L ₄₁₄₆₃	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₄	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₅	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₆	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B3}
L ₄₁₄₆₇	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₆₈	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₆₉	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}	R ^{B3}
L ₄₁₄₇₀	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B3}

L₄₁₄₇₁ through L₄₁₆₉₀ having structures of Formula Vwherein R¹, R², R⁵, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₄₇₁	H	H	H	R ^{B6}
L ₄₁₄₇₂	R ^{B1}	H	H	R ^{B6}
L ₄₁₄₇₃	R ^{B1}	R ^{B1}	H	R ^{B6}
L ₄₁₄₇₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₁₄₇₅	R ^{B1}	H	R ^{B1}	R ^{B6}
L ₄₁₄₇₆	H	H	R ^{B1}	R ^{B6}
L ₄₁₄₇₇	H	R ^{B1}	H	R ^{B6}
L ₄₁₄₇₈	H	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₁₄₇₉	H	H	R ^{A34}	R ^{B6}
L ₄₁₄₈₀	R ^{B1}	H	R ^{A34}	R ^{B6}
L ₄₁₄₈₁	H	R ^{B1}	R ^{A34}	R ^{B6}
L ₄₁₄₈₂	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B6}
L ₄₁₄₈₃	H	H	R ^{B18}	R ^{B6}
L ₄₁₄₈₄	R ^{B1}	H	R ^{B18}	R ^{B6}
L ₄₁₄₈₅	H	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₁₄₈₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₁₄₈₇	H	H	R ^{B3}	R ^{B6}
L ₄₁₄₈₈	R ^{B1}	H	R ^{B3}	R ^{B6}
L ₄₁₄₈₉	H	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₁₄₉₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₁₄₉₁	H	H	R ^{B4}	R ^{B6}
L ₄₁₄₉₂	R ^{B1}	H	R ^{B4}	R ^{B6}
L ₄₁₄₉₃	H	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₁₄₉₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₁₄₉₅	H	H	R ^{B7}	R ^{B6}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₄₉₆	R ^{B1}	H	R ^{B7}	R ^{B6}
L ₄₁₄₉₇	H	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₁₄₉₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₁₄₉₉	R ^{B3}	H	H	R ^{B6}
L ₄₁₅₀₀	R ^{B3}	H	R ^{B1}	R ^{B6}
L ₄₁₅₀₁	R ^{B3}	R ^{B1}	H	R ^{B6}
L ₄₁₅₀₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₁₅₀₃	R ^{B3}	H	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₄	H	R ^{B3}	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₅	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₆	R ^{B1}	R ^{B3}	R ⁴³⁴	R ^{B6}
L ₄₁₅₀₇	R ^{B3}	H	R ^{B18}	R ^{B6}
L ₄₁₅₀₈	H	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₁₅₀₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₁₅₁₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₁₅₁₁	R ^{B3}	H	R ^{B3}	R ^{B6}
L ₄₁₅₁₂	H	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₁₅₁₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₁₅₁₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₁₅₁₅	R ^{B3}	H	R ^{B4}	R ^{B6}
L ₄₁₅₁₆	H	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₁₅₁₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₁₅₁₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₁₅₁₉	R ^{B3}	H	R ^{B7}	R ^{B6}
L ₄₁₅₂₀	H	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₁₅₂₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₁₅₂₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₁₅₂₃	H	H	H	R ^{B12}
L ₄₁₅₂₄	R ^{B1}	H	H	R ^{B12}
L ₄₁₅₂₅	R ^{B1}	R ^{B1}	H	R ^{B12}
L ₄₁₅₂₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₁₅₂₇	R ^{B1}	H	R ^{B1}	R ^{B12}
L ₄₁₅₂₈	H	H	R ^{B1}	R ^{B12}
L ₄₁₅₂₉	H	R ^{B1}	H	R ^{B12}
L ₄₁₅₃₀	H	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₁₅₃₁	H	H	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₂	R ^{B1}	H	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₃	H	R ^{B1}	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₄	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B12}
L ₄₁₅₃₅	H	H	R ^{B18}	R ^{B12}
L ₄₁₅₃₆	R ^{B1}	H	R ^{B18}	R ^{B12}
L ₄₁₅₃₇	H	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₁₅₃₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₁₅₃₉	H	H	R ^{B3}	R ^{B12}
L ₄₁₅₄₀	R ^{B1}	H	R ^{B3}	R ^{B12}
L ₄₁₅₄₁	H	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₁₅₄₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₁₅₄₃	H	H	R ^{B4}	R ^{B12}
L ₄₁₅₄₄	R ^{B1}	H	R ^{B4}	R ^{B12}
L ₄₁₅₄₅	H	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₁₅₄₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₁₅₄₇	H	H	R ^{B7}	R ^{B12}
L ₄₁₅₄₈	R ^{B1}	H	R ^{B7}	R ^{B12}
L ₄₁₅₄₉	H	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₁₅₅₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₁₅₅₁	R ^{B3}	H	H	R ^{B12}
L ₄₁₅₅₂	R ^{B3}	H	R ^{B1}	R ^{B12}
L ₄₁₅₅₃	R ^{B3}	R ^{B1}	H	R ^{B12}
L ₄₁₅₅₄	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₁₅₅₅	R ^{B3}	H	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₆	H	R ^{B3}	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₇	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₈	R ^{B1}	R ^{B3}	R ⁴³⁴	R ^{B12}
L ₄₁₅₅₉	R ^{B3}	H	R ^{B18}	R ^{B12}
L ₄₁₅₆₀	H	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₁₅₆₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₁₅₆₂	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₁₅₆₃	R ^{B3}	H	R ^{B3}	R ^{B12}
L ₄₁₅₆₄	H	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₁₅₆₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₁₅₆₆	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₁₅₆₇	R ^{B3}	H	R ^{B4}	R ^{B12}
L ₄₁₅₆₈	H	R ^{B3}	R ^{B4}	R ^{B12}
L ₄₁₅₆₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B12}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₅₇₀	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B12}
L ₄₁₅₇₁	R ^{B3}	H	R ^{B7}	R ^{B12}
L ₄₁₅₇₂	H	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₁₅₇₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₁₅₇₄	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₁₅₇₅	H	H	H	R ^{B44}
L ₄₁₅₇₆	R ^{B1}	H	H	R ^{B44}
L ₄₁₅₇₇	R ^{B1}	R ^{B1}	H	R ^{B44}
L ₄₁₅₇₈	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₁₅₇₉	R ^{B1}	H	R ^{B1}	R ^{B44}
L ₄₁₅₈₀	H	H	R ^{B1}	R ^{B44}
L ₄₁₅₈₁	H	R ^{B1}	H	R ^{B44}
L ₄₁₅₈₂	H	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₁₅₈₃	H	H	R ⁴³⁴	R ^{B44}
L ₄₁₅₈₄	R ^{B1}	H	R ⁴³⁴	R ^{B44}
L ₄₁₅₈₅	H	R ^{B1}	R ⁴³⁴	R ^{B44}
L ₄₁₅₈₆	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B44}
L ₄₁₅₈₇	H	H	R ^{B18}	R ^{B44}
L ₄₁₅₈₈	R ^{B1}	H	R ^{B18}	R ^{B44}
L ₄₁₅₈₉	H	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₁₅₉₀	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₁₅₉₁	H	H	R ^{B3}	R ^{B44}
L ₄₁₅₉₂	R ^{B1}	H	R ^{B3}	R ^{B44}
L ₄₁₅₉₃	H	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₁₅₉₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₁₅₉₅	H	H	R ^{B4}	R ^{B44}
L ₄₁₅₉₆	R ^{B1}	H	R ^{B4}	R ^{B44}
L ₄₁₅₉₇	H	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₁₅₉₈	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₁₅₉₉	H	H	R ^{B7}	R ^{B44}
L ₄₁₆₀₀	R ^{B1}	H	R ^{B7}	R ^{B44}
L ₄₁₆₀₁	H	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₁₆₀₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₁₆₀₃	R ^{B3}	H	H	R ^{B44}
L ₄₁₆₀₄	R ^{B3}	H	R ^{B1}	R ^{B44}
L ₄₁₆₀₅	R ^{B3}	R ^{B1}	H	R ^{B44}
L ₄₁₆₀₆	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₁₆₀₇	R ^{B3}	H	R ⁴³⁴	R ^{B44}
L ₄₁₆₀₈	H	R ^{B3}	R ⁴³⁴	R ^{B44}
L ₄₁₆₀₉	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B44}
L ₄₁₆₁₀	R ^{B1}	R ^{B3}	R ⁴³⁴	R ^{B44}
L ₄₁₆₁₁	R ^{B3}	H	R ^{B18}	R ^{B44}
L ₄₁₆₁₂	H	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₁₆₁₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₁₆₁₄	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₁₆₁₅	R ^{B3}	H	R ^{B3}	R ^{B44}
L ₄₁₆₁₆	H	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₁₆₁₇	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₁₆₁₈	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₁₆₁₉	R ^{B3}	H	R ^{B4}	R ^{B44}
L ₄₁₆₂₀	H	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₁₆₂₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₁₆₂₂	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₁₆₂₃	R ^{B3}	H	R ^{B7}	R ^{B44}
L ₄₁₆₂₄	H	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₁₆₂₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₁₆₂₆	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₁₆₂₇	H	H	H	R ^{B45}
L ₄₁₆₂₈	R ^{B1}	H	H	R ^{B45}
L ₄₁₆₂₉	R ^{B1}	R ^{B1}	H	R ^{B45}
L ₄₁₆₃₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₁₆₃₁	R ^{B1}	H	R ^{B1}	R ^{B45}
L ₄₁₆₃₂	H	H	H	R ^{B45}
L ₄₁₆₃₃	H	R ^{B1}	H	R ^{B45}
L ₄₁₆₃₄	H	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₁₆₃₅	H	H	R ⁴³⁴	R ^{B45}
L ₄₁₆₃₆	R ^{B1}	H	R ⁴³⁴	R ^{B45}
L ₄₁₆₃₇	H	R ^{B1}	R ⁴³⁴	R ^{B45}
L ₄₁₆₃₈	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B45}
L ₄₁₆₃₉	H	H	R ^{B18}	R ^{B45}
L ₄₁₆₄₀	R ^{B1}	H	R ^{B18}	R ^{B45}
L ₄₁₆₄₁	H	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₁₆₄₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₁₆₄₃	H	H	R ^{B3}	R ^{B45}

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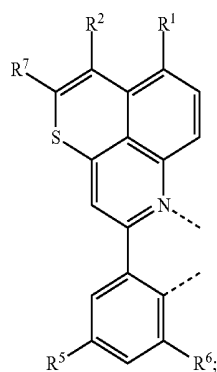
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₆₄₄	R ^{B1}	H	R ^{B3}	R ^{B45}
L ₄₁₆₄₅	H	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₁₆₄₆	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₁₆₄₇	H	H	R ^{B4}	R ^{B45}
L ₄₁₆₄₈	R ^{B1}	H	R ^{B4}	R ^{B45}
L ₄₁₆₄₉	H	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₁₆₅₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₁₆₅₁	H	H	R ^{B7}	R ^{B45}
L ₄₁₆₅₂	R ^{B1}	H	R ^{B7}	R ^{B45}
L ₄₁₆₅₃	H	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₁₆₅₄	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₁₆₅₅	R ^{B3}	H	H	R ^{B45}
L ₄₁₆₅₆	R ^{B3}	H	R ^{B1}	R ^{B45}
L ₄₁₆₅₇	R ^{B3}	R ^{B1}	H	R ^{B45}
L ₄₁₆₅₈	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₁₆₅₉	R ^{B3}	H	R ^{A34}	R ^{B45}
L ₄₁₆₆₀	H	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₁₆₆₁	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₁₆₆₂	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₁₆₆₃	R ^{B3}	H	R ^{B18}	R ^{B45}
L ₄₁₆₆₄	H	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₁₆₆₅	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₁₆₆₆	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₁₆₆₇	R ^{B3}	H	R ^{B3}	R ^{B45}
L ₄₁₆₆₈	H	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₁₆₆₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₁₆₇₀	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₁₆₇₁	R ^{B3}	H	R ^{B4}	R ^{B45}
L ₄₁₆₇₂	H	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₁₆₇₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₁₆₇₄	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₁₆₇₅	R ^{B3}	H	R ^{B7}	R ^{B45}
L ₄₁₆₇₆	H	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₁₆₇₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₁₆₇₈	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₁₆₇₉	H	H	H	R ^{B46}
L ₄₁₆₈₀	R ^{B1}	H	H	R ^{B46}
L ₄₁₆₈₁	R ^{B1}	R ^{B1}	H	R ^{B46}
L ₄₁₆₈₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₁₆₈₃	R ^{B1}	H	R ^{B1}	R ^{B46}
L ₄₁₆₈₄	H	H	R ^{B1}	R ^{B46}
L ₄₁₆₈₅	H	R ^{B1}	H	R ^{B46}
L ₄₁₆₈₆	H	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₁₆₈₇	H	H	R ^{A34}	R ^{B46}
L ₄₁₆₈₈	R ^{B1}	H	R ^{A34}	R ^{B46}
L ₄₁₆₈₉	H	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₁₆₉₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₁₆₉₁	H	H	R ^{B18}	R ^{B46}
L ₄₁₆₉₂	R ^{B1}	H	R ^{B18}	R ^{B46}
L ₄₁₆₉₃	H	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₁₆₉₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₁₆₉₅	H	H	R ^{B3}	R ^{B46}
L ₄₁₆₉₆	R ^{B1}	H	R ^{B3}	R ^{B46}
L ₄₁₆₉₇	H	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₁₆₉₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₁₆₉₉	H	H	R ^{B4}	R ^{B46}
L ₄₁₇₀₀	R ^{B1}	H	R ^{B4}	R ^{B46}
L ₄₁₇₀₁	H	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₁₇₀₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₁₇₀₃	H	H	R ^{B7}	R ^{B46}
L ₄₁₇₀₄	R ^{B1}	H	R ^{B7}	R ^{B46}
L ₄₁₇₀₅	H	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₁₇₀₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₁₇₀₇	R ^{B3}	H	H	R ^{B46}
L ₄₁₇₀₈	R ^{B3}	H	R ^{B1}	R ^{B46}
L ₄₁₇₀₉	R ^{B3}	R ^{B1}	H	R ^{B46}
L ₄₁₇₁₀	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₁₇₁₁	R ^{B3}	H	R ^{A34}	R ^{B46}
L ₄₁₇₁₂	H	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₁₇₁₃	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₁₇₁₄	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₁₇₁₅	R ^{B3}	H	R ^{B18}	R ^{B46}
L ₄₁₇₁₆	H	R ^{B3}	R ^{B18}	R ^{B46}
L ₄₁₇₁₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B46}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₇₁₈	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B46}
L ₄₁₇₁₉	R ^{B3}	H	R ^{B3}	R ^{B46}
L ₄₁₇₂₀	H	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₁₇₂₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₁₇₂₂	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₁₇₂₃	R ^{B3}	H	R ^{B4}	R ^{B46}
L ₄₁₇₂₄	H	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₁₇₂₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₁₇₂₆	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₁₇₂₇	R ^{B3}	H	R ^{B7}	R ^{B46}
L ₄₁₇₂₈	H	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₁₇₂₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₁₇₃₀	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₁₇₃₁	H	H	H	R ^{B7}
L ₄₁₇₃₂	R ^{B1}	H	H	R ^{B7}
L ₄₁₇₃₃	R ^{B1}	R ^{B1}	H	R ^{B7}
L ₄₁₇₃₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₁₇₃₅	R ^{B1}	H	R ^{B1}	R ^{B7}
L ₄₁₇₃₆	H	H	H	R ^{B7}
L ₄₁₇₃₇	H	R ^{B1}	H	R ^{B7}
L ₄₁₇₃₈	H	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₁₇₃₉	H	H	R ^{A34}	R ^{B7}
L ₄₁₇₄₀	R ^{B1}	H	R ^{A34}	R ^{B7}
L ₄₁₇₄₁	H	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₁₇₄₂	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₁₇₄₃	H	H	R ^{B18}	R ^{B7}
L ₄₁₇₄₄	R ^{B1}	H	R ^{B18}	R ^{B7}
L ₄₁₇₄₅	H	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₁₇₄₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₁₇₄₇	H	H	R ^{B3}	R ^{B7}
L ₄₁₇₄₈	R ^{B1}	H	R ^{B3}	R ^{B7}
L ₄₁₇₄₉	H	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₁₇₅₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₁₇₅₁	H	H	R ^{B4}	R ^{B7}
L ₄₁₇₅₂	R ^{B1}	H	R ^{B4}	R ^{B7}
L ₄₁₇₅₃	H	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₁₇₅₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₁₇₅₅	H	H	R ^{B7}	R ^{B7}
L ₄₁₇₅₆	R ^{B1}	H	R ^{B7}	R ^{B7}
L ₄₁₇₅₇	H	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₁₇₅₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₁₇₅₉	R ^{B3}	H	H	R ^{B7}
L ₄₁₇₆₀	R ^{B3}	H	R ^{B1}	R ^{B7}
L ₄₁₇₆₁	R ^{B3}	R ^{B1}	H	R ^{B7}
L ₄₁₇₆₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₁₇₆₃	R ^{B3}	H	R ^{A34}	R ^{B7}
L ₄₁₇₆₄	H	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₁₇₆₅	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₁₇₆₆	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₁₇₆₇	R ^{B3}	H	R ^{B18}	R ^{B7}
L ₄₁₇₆₈	H	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₁₇₆₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₁₇₇₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₁₇₇₁	R ^{B3}	H	R ^{B3}	R ^{B7}
L ₄₁₇₇₂	H	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₁₇₇₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₁₇₇₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₁₇₇₅	R ^{B3}	H	R ^{B4}	R ^{B7}
L ₄₁₇₇₆	H	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₁₇₇₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₁₇₇₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₁₇₇₉	R ^{B3}	H	R ^{B7}	R ^{B7}
L ₄₁₇₈₀	H	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₁₇₈₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₁₇₈₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₁₇₈₃	H	H	H	R ^{B10}
L ₄₁₇₈₄	R ^{B1}	H	H	R ^{B10}
L ₄₁₇₈₅	R ^{B1}	R ^{B1}	H	R ^{B10}
L ₄₁₇₈₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₁₇₈₇	R ^{B1}	H	R ^{B1}	R ^{B10}
L ₄₁₇₈₈	H	H	R ^{B1}	R ^{B10}
L ₄₁₇₈₉	H	R ^{B1}	H	R ^{B10}
L ₄₁₇₉₀	H	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₁₇₉₁	H	H	R ^{A34}	R ^{B10}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₁₇₉₂	R ^{B1}	H	R ^{A34}	R ^{B10}
L ₄₁₇₉₃	H	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₁₇₉₄	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₁₇₉₅	H	H	R ^{B18}	R ^{B10}
L ₄₁₇₉₆	R ^{B1}	H	R ^{B18}	R ^{B10}
L ₄₁₇₉₇	H	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₁₇₉₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₁₇₉₉	H	H	R ^{B3}	R ^{B10}
L ₄₁₈₀₀	R ^{B1}	H	R ^{B3}	R ^{B10}
L ₄₁₈₀₁	H	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₁₈₀₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₁₈₀₃	H	H	R ^{B4}	R ^{B10}
L ₄₁₈₀₄	R ^{B1}	H	R ^{B4}	R ^{B10}
L ₄₁₈₀₅	H	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₁₈₀₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₁₈₀₇	H	H	R ^{B7}	R ^{B10}
L ₄₁₈₀₈	R ^{B1}	H	R ^{B7}	R ^{B10}
L ₄₁₈₀₉	H	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₁₈₁₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₁₈₁₁	R ^{B3}	H	H	R ^{B10}
L ₄₁₈₁₂	R ^{B3}	H	R ^{B1}	R ^{B10}
L ₄₁₈₁₃	R ^{B3}	R ^{B1}	H	R ^{B10}
L ₄₁₈₁₄	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₁₈₁₅	R ^{B3}	H	R ^{A34}	R ^{B10}
L ₄₁₈₁₆	H	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₁₈₁₇	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₁₈₁₈	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₁₈₁₉	R ^{B3}	H	R ^{B18}	R ^{B10}
L ₄₁₈₂₀	H	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₁₈₂₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₁₈₂₂	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₁₈₂₃	R ^{B3}	H	R ^{B3}	R ^{B10}
L ₄₁₈₂₄	H	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₁₈₂₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₁₈₂₆	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₁₈₂₇	R ^{B3}	H	R ^{B4}	R ^{B10}
L ₄₁₈₂₈	H	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₁₈₂₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₁₈₃₀	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₁₈₃₁	R ^{B3}	H	R ^{B7}	R ^{B10}
L ₄₁₈₃₂	H	R ^{B3}	R ^{B7}	R ^{B10}
L ₄₁₈₃₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₁₈₃₄	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B10}

L₄₁₈₃₅ through L₄₂₁₂₈ having structures of Formula VIwherein 10, R², R⁵, R⁶, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₈₃₅	H	H	H	H	H
L ₄₁₈₃₆	R ^{B1}	H	H	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₈₃₇	R ^{B1}	R ^{B1}	H	H	H
L ₄₁₈₃₈	R ^{B1}	R ^{B1}	R ^{B1}	H	H
L ₄₁₈₃₉	R ^{B1}	H	R ^{B1}	H	H
L ₄₁₈₄₀	H	H	R ^{B1}	H	H
L ₄₁₈₄₁	H	H	H	R ^{B1}	R ^{B1}
L ₄₁₈₄₂	R ^{B1}	H	H	R ^{B1}	R ^{B1}
L ₄₁₈₄₃	R ^{B1}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₈₄₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₄₅	R ^{B1}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₄₆	H	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₈₄₇	H	H	H	R ^{B44}	R ^{B44}
L ₄₁₈₄₈	R ^{B1}	H	H	R ^{B44}	R ^{B44}
L ₄₁₈₄₉	R ^{B1}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₈₅₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₅₁	R ^{B1}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₅₂	H	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₈₅₃	H	H	R ^{A34}	H	H
L ₄₁₈₅₄	R ^{B1}	H	R ^{A34}	H	H
L ₄₁₈₅₅	H	R ^{B1}	R ^{A34}	H	H
L ₄₁₈₅₆	R ^{B1}	R ^{B1}	R ^{A34}	H	H
L ₄₁₈₅₇	H	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₁₈₅₈	R ^{B1}	H	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₁₈₅₉	H	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₁₈₆₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B1}	R ^{B1}
L ₄₁₈₆₁	H	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₁₈₆₂	R ^{B1}	H	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₁₈₆₃	H	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₁₈₆₄	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B44}	R ^{B44}
L ₄₁₈₆₅	H	H	R ^{B18}	H	H
L ₄₁₈₆₆	R ^{B1}	H	R ^{B18}	H	H
L ₄₁₈₆₇	H	R ^{B1}	R ^{B18}	H	H
L ₄₁₈₆₈	R ^{B1}	R ^{B1}	R ^{B18}	H	H
L ₄₁₈₆₉	H	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₀	R ^{B1}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₁	H	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₈₇₃	H	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₄	R ^{B1}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₅	H	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₈₇₇	H	H	R ^{B3}	H	H
L ₄₁₈₇₈	R ^{B1}	H	R ^{B3}	H	H
L ₄₁₈₇₉	H	R ^{B1}	R ^{B3}	H	H
L ₄₁₈₈₀	R ^{B1}	R ^{B1}	R ^{B3}	H	H
L ₄₁₈₈₁	H	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₂	R ^{B1}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₃	H	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₈₈₅	H	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₆	R ^{B1}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₇	H	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₈₈₉	H	H	R ^{B4}	H	H
L ₄₁₈₉₀	R ^{B1}	H	R ^{B4}	H	H
L ₄₁₈₉₁	H	R ^{B1}	R ^{B4}	H	H
L ₄₁₈₉₂	R ^{B1}	R ^{B1}	R ^{B4}	H	H
L ₄₁₈₉₃	H	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₄	R ^{B1}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₅	H	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₈₉₇	H	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₈₉₈	R ^{B1}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₈₉₉	H	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₀₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₀₁	H	H	R ^{B7}	H	H
L ₄₁₉₀₂	R ^{B1}	H	R ^{B7}	H	H
L ₄₁₉₀₃	H	R ^{B1}	R ^{B7}	H	H
L ₄₁₉₀₄	R ^{B1}	R ^{B1}	R ^{B7}	H	H
L ₄₁₉₀₅	H	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₆	R ^{B1}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₇	H	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₀₉	H	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₁₀	R ^{B1}	H	R ^{B7}	R ^{B44}	R ^{B44}

-continued

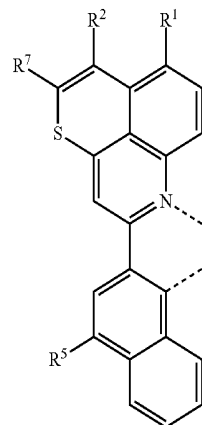
Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₉₁₁	H	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₁₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₁₃	R ^{B3}	H	H	H	H
L ₄₁₉₁₄	R ^{B3}	R ^{B1}	H	H	H
L ₄₁₉₁₅	R ^{B3}	R ^{B1}	R ^{B1}	H	H
L ₄₁₉₁₆	R ^{B3}	H	R ^{B1}	H	H
L ₄₁₉₁₇	R ^{B3}	H	H	R ^{B1}	R ^{B1}
L ₄₁₉₁₈	R ^{B3}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₉₁₉	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₂₀	R ^{B3}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₂₁	R ^{B3}	H	H	R ^{B44}	R ^{B44}
L ₄₁₉₂₂	R ^{B3}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₉₂₃	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₂₄	R ^{B3}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₂₅	R ^{B3}	H	R ^{B44}	H	H
L ₄₁₉₂₆	R ^{B3}	R ^{B44}	H	H	H
L ₄₁₉₂₇	R ^{B3}	R ^{B1}	R ^{B44}	H	H
L ₄₁₉₂₈	R ^{B3}	R ^{B44}	R ^{B1}	H	H
L ₄₁₉₂₉	R ^{B3}	H	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₁₉₃₀	R ^{B3}	R ^{B44}	H	R ^{B1}	R ^{B1}
L ₄₁₉₃₁	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₁₉₃₂	R ^{B3}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₃₃	R ^{B3}	H	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₁₉₃₄	R ^{B3}	R ^{B44}	H	R ^{B44}	R ^{B44}
L ₄₁₉₃₅	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₁₉₃₆	R ^{B3}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₃₇	R ^{B3}	H	R ^{B18}	H	H
L ₄₁₉₃₈	R ^{B3}	R ^{B18}	H	H	H
L ₄₁₉₃₉	R ^{B3}	R ^{B1}	R ^{B18}	H	H
L ₄₁₉₄₀	R ^{B3}	R ^{B18}	R ^{B1}	H	H
L ₄₁₉₄₁	R ^{B3}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₉₄₂	R ^{B3}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₁₉₄₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₁₉₄₄	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₄₅	R ^{B3}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₉₄₆	R ^{B3}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₁₉₄₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₁₉₄₈	R ^{B3}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₄₉	R ^{B3}	H	R ^{B3}	H	H
L ₄₁₉₅₀	R ^{B3}	R ^{B3}	H	H	H
L ₄₁₉₅₁	R ^{B3}	R ^{B1}	R ^{B3}	H	H
L ₄₁₉₅₂	R ^{B3}	R ^{B3}	R ^{B1}	H	H
L ₄₁₉₅₃	R ^{B3}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₅₄	R ^{B3}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₁₉₅₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₁₉₅₆	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₅₇	R ^{B3}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₅₈	R ^{B3}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₁₉₅₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₁₉₆₀	R ^{B3}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₆₁	R ^{B3}	H	R ^{B4}	H	H
L ₄₁₉₆₂	R ^{B3}	R ^{B4}	H	H	H
L ₄₁₉₆₃	R ^{B3}	R ^{B1}	R ^{B4}	H	H
L ₄₁₉₆₄	R ^{B3}	R ^{B4}	R ^{B1}	H	H
L ₄₁₉₆₅	R ^{B3}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₉₆₆	R ^{B3}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₁₉₆₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₁₉₆₈	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₆₉	R ^{B3}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₇₀	R ^{B3}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₁₉₇₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₁₉₇₂	R ^{B3}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₇₃	R ^{B3}	H	R ^{B7}	H	H
L ₄₁₉₇₄	R ^{B3}	R ^{B7}	H	H	H
L ₄₁₉₇₅	R ^{B3}	R ^{B1}	R ^{B7}	H	H
L ₄₁₉₇₆	R ^{B3}	R ^{B7}	R ^{B1}	H	H
L ₄₁₉₇₇	R ^{B3}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₇₈	R ^{B3}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₁₉₇₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₁₉₈₀	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₈₁	R ^{B3}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₈₂	R ^{B3}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₁₉₈₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₁₉₈₄	R ^{B3}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₁₉₈₅	R ^{B2}	H	H	H	H
L ₄₁₉₈₆	R ^{B2}	R ^{B1}	H	H	H
L ₄₁₉₈₇	R ^{B2}	R ^{B1}	R ^{B1}	H	H
L ₄₁₉₈₈	R ^{B2}	H	R ^{B1}	H	H
L ₄₁₉₈₉	R ^{B2}	H	H	R ^{B1}	R ^{B1}
L ₄₁₉₉₀	R ^{B2}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₁₉₉₁	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₉₂	R ^{B2}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₁₉₉₃	R ^{B2}	H	H	R ^{B44}	R ^{B44}
L ₄₁₉₉₄	R ^{B2}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₁₉₉₅	R ^{B2}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₉₆	R ^{B2}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₁₉₉₇	R ^{B2}	H	R ^{B44}	H	H
L ₄₁₉₉₈	R ^{B2}	R ^{B44}	H	H	H
L ₄₁₉₉₉	R ^{B2}	R ^{B1}	R ^{B44}	H	H
L ₄₂₀₀₀	R ^{B2}	R ^{B44}	R ^{B1}	H	H
L ₄₂₀₀₁	R ^{B2}	H	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₂₀₀₂	R ^{B2}	R ^{B44}	H	R ^{B1}	R ^{B1}
L ₄₂₀₀₃	R ^{B2}	R ^{B1}	R ^{B44}	R ^{B1}	R ^{B1}
L ₄₂₀₀₄	R ^{B2}	R ^{B44}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₀₅	R ^{B2}	H	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₂₀₀₆	R ^{B2}	R ^{B44}	H	R ^{B44}	R ^{B44}
L ₄₂₀₀₇	R ^{B2}	R ^{B1}	R ^{B44}	R ^{B44}	R ^{B44}
L ₄₂₀₀₈	R ^{B2}	R ^{B44}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₀₉	R ^{B2}	H	R ^{B18}	H	H
L ₄₂₀₁₀	R ^{B2}	R ^{B18}	H	H	H
L ₄₂₀₁₁	R ^{B2}	R ^{B1}	R ^{B18}	H	H
L ₄₂₀₁₂	R ^{B2}	R ^{B38}	R ^{B1}	H	H
L ₄₂₀₁₃	R ^{B2}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₁₄	R ^{B2}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₂₀₁₅	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₁₆	R ^{B2}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₁₇	R ^{B2}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₁₈	R ^{B2}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₂₀₁₉	R ^{B2}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₂₀	R ^{B2}	R ^{B38}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₂₁	R ^{B2}	H	R ^{B3}	H	H
L ₄₂₀₂₂	R ^{B2}	R ^{B3}	H	H	H
L ₄₂₀₂₃	R ^{B2}	R ^{B1}	R ^{B3}	H	H
L ₄₂₀₂₄	R ^{B2}	R ^{B3}	R ^{B1}	H	H
L ₄₂₀₂₅	R ^{B2}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₀₂₆	R ^{B2}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₂₀₂₇	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₀₂₈	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₂₉	R ^{B2}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₀₃₀	R ^{B2}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₂₀₃₁	R ^{B2}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₀₃₂	R ^{B2}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₃₃	R ^{B2}	H	R ^{B4}	H	H
L ₄₂₀₃₄	R ^{B2}	R ^{B4}	H	H	H
L ₄₂₀₃₅	R ^{B2}	R ^{B1}	R ^{B4}	H	H
L ₄₂₀₃₆	R ^{B2}	R ^{B4}	R ^{B1}	H	H
L ₄₂₀₃₇	R ^{B2}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₃₈	R ^{B2}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₀₃₉	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₀₄₀	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₄₁	R ^{B2}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₀₄₂	R ^{B2}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₀₄₃	R ^{B2}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₀₄₄	R ^{B2}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₄₅	R ^{B2}	H	R ^{B7}	H	H
L ₄₂₀₄₆	R ^{B2}	R ^{B7}	H	H	H
L ₄₂₀₄₇	R ^{B2}	R ^{B1}	R ^{B7}	H	H
L ₄₂₀₄₈	R ^{B2}	R ^{B7}	R ^{B1}	H	H
L ₄₂₀₄₉	R ^{B2}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₀₅₀	R ^{B2}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₀₅₁	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₀₅₂	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₅₃	R ^{B2}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₀₅₄	R ^{B2}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₀₅₅	R ^{B2}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₀₅₆	R ^{B2}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₅₇	R ^{B4}	H	H	H	H
L ₄₂₀₅₈	R ^{B4}	R ^{B1}	H	H	H

-continued

Ligand	R ¹	R ²	R ⁷	R ⁶	R ⁵
L ₄₂₀₅₉	R ^{B4}	R ^{B1}	R ^{B1}	H	H
L ₄₂₀₆₀	R ^{B4}	H	R ^{B1}	H	H
L ₄₂₀₆₁	R ^{B4}	H	H	R ^{B1}	R ^{B1}
L ₄₂₀₆₂	R ^{B4}	R ^{B1}	H	R ^{B1}	R ^{B1}
L ₄₂₀₆₃	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₆₄	R ^{B4}	H	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₆₅	R ^{B4}	H	H	R ^{B44}	R ^{B44}
L ₄₂₀₆₆	R ^{B4}	R ^{B1}	H	R ^{B44}	R ^{B44}
L ₄₂₀₆₇	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₆₈	R ^{B4}	H	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₆₉	R ^{B4}	H	R ⁴³⁴	H	H
L ₄₂₀₇₀	R ^{B4}	R ⁴³⁴	H	H	H
L ₄₂₀₇₁	R ^{B4}	R ^{B1}	R ⁴³⁴	H	H
L ₄₂₀₇₂	R ^{B4}	R ⁴³⁴	R ^{B1}	H	H
L ₄₂₀₇₃	R ^{B4}	H	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₀₇₄	R ^{B4}	R ⁴³⁴	H	R ^{B1}	R ^{B1}
L ₄₂₀₇₅	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B1}	R ^{B1}
L ₄₂₀₇₆	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₇₇	R ^{B4}	H	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₀₇₈	R ^{B4}	R ⁴³⁴	H	R ^{B44}	R ^{B44}
L ₄₂₀₇₉	R ^{B4}	R ^{B1}	R ⁴³⁴	R ^{B44}	R ^{B44}
L ₄₂₀₈₀	R ^{B4}	R ⁴³⁴	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₈₁	R ^{B4}	H	R ^{B18}	H	H
L ₄₂₀₈₂	R ^{B4}	R ^{B18}	H	H	H
L ₄₂₀₈₃	R ^{B4}	R ^{B1}	R ^{B18}	H	H
L ₄₂₀₈₄	R ^{B4}	R ^{B18}	R ^{B1}	H	H
L ₄₂₀₈₅	R ^{B4}	H	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₈₆	R ^{B4}	R ^{B18}	H	R ^{B1}	R ^{B1}
L ₄₂₀₈₇	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B1}	R ^{B1}
L ₄₂₀₈₈	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₀₈₉	R ^{B4}	H	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₉₀	R ^{B4}	R ^{B18}	H	R ^{B44}	R ^{B44}
L ₄₂₀₉₁	R ^{B4}	R ^{B1}	R ^{B18}	R ^{B44}	R ^{B44}
L ₄₂₀₉₂	R ^{B4}	R ^{B18}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₀₉₃	R ^{B4}	H	R ^{B3}	H	H
L ₄₂₀₉₄	R ^{B4}	R ^{B3}	H	H	H
L ₄₂₀₉₅	R ^{B4}	R ^{B1}	R ^{B3}	H	H
L ₄₂₀₉₆	R ^{B4}	R ^{B3}	R ^{B1}	H	H
L ₄₂₀₉₇	R ^{B4}	H	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₀₉₈	R ^{B4}	R ^{B3}	H	R ^{B1}	R ^{B1}
L ₄₂₀₉₉	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B1}	R ^{B1}
L ₄₂₁₀₀	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₀₁	R ^{B4}	H	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₁₀₂	R ^{B4}	R ^{B3}	H	R ^{B44}	R ^{B44}
L ₄₂₁₀₃	R ^{B4}	R ^{B1}	R ^{B3}	R ^{B44}	R ^{B44}
L ₄₂₁₀₄	R ^{B4}	R ^{B3}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₁₀₅	R ^{B4}	H	R ^{B4}	H	H
L ₄₂₁₀₆	R ^{B4}	R ^{B4}	H	H	H
L ₄₂₁₀₇	R ^{B4}	R ^{B1}	R ^{B4}	H	H
L ₄₂₁₀₈	R ^{B4}	R ^{B4}	R ^{B1}	H	H
L ₄₂₁₀₉	R ^{B4}	H	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₁₁₀	R ^{B4}	R ^{B4}	H	R ^{B1}	R ^{B1}
L ₄₂₁₁₁	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B1}	R ^{B1}
L ₄₂₁₁₂	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₁₃	R ^{B4}	H	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₁₁₄	R ^{B4}	R ^{B4}	H	R ^{B44}	R ^{B44}
L ₄₂₁₁₅	R ^{B4}	R ^{B1}	R ^{B4}	R ^{B44}	R ^{B44}
L ₄₂₁₁₆	R ^{B4}	R ^{B4}	R ^{B1}	R ^{B44}	R ^{B44}
L ₄₂₁₁₇	R ^{B4}	H	R ^{B7}	H	H
L ₄₂₁₁₈	R ^{B4}	R ^{B7}	H	H	H
L ₄₂₁₁₉	R ^{B4}	R ^{B1}	R ^{B7}	H	H
L ₄₂₁₂₀	R ^{B4}	R ^{B7}	R ^{B1}	H	H
L ₄₂₁₂₁	R ^{B4}	H	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₂₂	R ^{B4}	R ^{B7}	H	R ^{B1}	R ^{B1}
L ₄₂₁₂₃	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B1}	R ^{B1}
L ₄₂₁₂₄	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B1}	R ^{B1}
L ₄₂₁₂₅	R ^{B4}	H	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₁₂₆	R ^{B4}	R ^{B7}	H	R ^{B44}	R ^{B44}
L ₄₂₁₂₇	R ^{B4}	R ^{B1}	R ^{B7}	R ^{B44}	R ^{B44}
L ₄₂₁₂₈	R ^{B4}	R ^{B7}	R ^{B1}	R ^{B44}	R ^{B44}

L₄₂₁₂₉ through L₄₂₄₉₂ having structures of Formula VIIwherein R¹, R², R⁵, and R⁷ are defined as follows:

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₁₂₉	H	H	H	R ^{B6}
L ₄₂₁₃₀	R ^{B1}	H	H	R ^{B6}
L ₄₂₁₃₁	R ^{B1}	R ^{B1}	H	R ^{B6}
L ₄₂₁₃₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₂₁₃₃	R ^{B1}	H	R ^{B1}	R ^{B6}
L ₄₂₁₃₄	H	H	R ^{B1}	R ^{B6}
L ₄₂₁₃₅	H	R ^{B1}	H	R ^{B6}
L ₄₂₁₃₆	H	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₂₁₃₇	H	H	R ⁴³⁴	R ^{B6}
L ₄₂₁₃₈	R ^{B1}	H	R ⁴³⁴	R ^{B6}
L ₄₂₁₃₉	H	R ^{B1}	R ⁴³⁴	R ^{B6}
L ₄₂₁₄₀	R ^{B1}	R ^{B1}	R ⁴³⁴	R ^{B6}
L ₄₂₁₄₁	H	H	R ^{B18}	R ^{B6}
L ₄₂₁₄₂	R ^{B1}	H	R ^{B18}	R ^{B6}
L ₄₂₁₄₃	H	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₂₁₄₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₂₁₄₅	H	H	R ^{B3}	R ^{B6}
L ₄₂₁₄₆	R ^{B1}	H	R ^{B3}	R ^{B6}
L ₄₂₁₄₇	H	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₂₁₄₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₂₁₄₉	H	H	R ^{B4}	R ^{B6}
L ₄₂₁₅₀	R ^{B1}	H	R ^{B4}	R ^{B6}
L ₄₂₁₅₁	H	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₂₁₅₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₂₁₅₃	H	H	R ^{B7}	R ^{B6}
L ₄₂₁₅₄	R ^{B1}	H	R ^{B7}	R ^{B6}
L ₄₂₁₅₅	H	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₂₁₅₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₂₁₅₇	R ^{B3}	H	H	R ^{B6}
L ₄₂₁₅₈	R ^{B3}	H	R ^{B1}	R ^{B6}
L ₄₂₁₅₉	R ^{B3}	R ^{B1}	H	R ^{B6}
L ₄₂₁₆₀	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B6}
L ₄₂₁₆₁	R ^{B3}	H	R ⁴³⁴	R ^{B6}
L ₄₂₁₆₂	H	R ^{B3}	R ⁴³⁴	R ^{B6}
L ₄₂₁₆₃	R ^{B3}	R ^{B1}	R ⁴³⁴	R ^{B6}
L ₄₂₁₆₄	R ^{B1}	R ^{B3}	R ⁴³⁴	R ^{B6}
L ₄₂₁₆₅	R ^{B3}	H	R ^{B18}	R ^{B6}
L ₄₂₁₆₆	H	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₂₁₆₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B6}
L ₄₂₁₆₈	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B6}
L ₄₂₁₆₉	R ^{B3}	H	R ^{B3}	R ^{B6}
L ₄₂₁₇₀	H	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₂₁₇₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B6}
L ₄₂₁₇₂	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B6}
L ₄₂₁₇₃	R ^{B3}	H	R ^{B4}	R ^{B6}
L ₄₂₁₇₄	H	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₂₁₇₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B6}
L ₄₂₁₇₆	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B6}
L ₄₂₁₇₇	R ^{B3}	H	R ^{B7}	R ^{B6}

-continued

Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₁₇₈	H	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₂₁₇₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B6}
L ₄₂₁₈₀	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B6}
L ₄₂₁₈₁	H	H	H	R ^{B12}
L ₄₂₁₈₂	R ^{B1}	H	H	R ^{B12}
L ₄₂₁₈₃	R ^{B1}	R ^{B1}	H	R ^{B12}
L ₄₂₁₈₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₂₁₈₅	R ^{B1}	H	R ^{B1}	R ^{B12}
L ₄₂₁₈₆	H	H	R ^{B1}	R ^{B12}
L ₄₂₁₈₇	H	R ^{B1}	H	R ^{B12}
L ₄₂₁₈₈	H	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₂₁₈₉	H	H	R ^{A34}	R ^{B12}
L ₄₂₁₉₀	R ^{B1}	H	R ^{A34}	R ^{B12}
L ₄₂₁₉₁	H	R ^{B1}	R ^{A34}	R ^{B12}
L ₄₂₁₉₂	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B12}
L ₄₂₁₉₃	H	H	R ^{B18}	R ^{B12}
L ₄₂₁₉₄	R ^{B1}	H	R ^{B18}	R ^{B12}
L ₄₂₁₉₅	H	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₂₁₉₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₂₁₉₇	H	H	R ^{B3}	R ^{B12}
L ₄₂₁₉₈	R ^{B1}	H	R ^{B3}	R ^{B12}
L ₄₂₁₉₉	H	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₂₂₀₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₂₂₀₁	H	H	R ^{B4}	R ^{B12}
L ₄₂₂₀₂	R ^{B1}	H	R ^{B4}	R ^{B12}
L ₄₂₂₀₃	H	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₂₂₀₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₂₂₀₅	H	H	R ^{B7}	R ^{B12}
L ₄₂₂₀₆	R ^{B1}	H	R ^{B7}	R ^{B12}
L ₄₂₂₀₇	H	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₂₂₀₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₂₂₀₉	R ^{B3}	H	H	R ^{B12}
L ₄₂₂₁₀	R ^{B3}	H	R ^{B1}	R ^{B12}
L ₄₂₂₁₁	R ^{B3}	R ^{B1}	H	R ^{B12}
L ₄₂₂₁₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B12}
L ₄₂₂₁₃	R ^{B3}	H	R ^{A34}	R ^{B12}
L ₄₂₂₁₄	H	R ^{B3}	R ^{A34}	R ^{B12}
L ₄₂₂₁₅	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B12}
L ₄₂₂₁₆	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B12}
L ₄₂₂₁₇	R ^{B3}	H	R ^{B18}	R ^{B12}
L ₄₂₂₁₈	H	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₂₂₁₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B12}
L ₄₂₂₂₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B12}
L ₄₂₂₂₁	R ^{B3}	H	R ^{B3}	R ^{B12}
L ₄₂₂₂₂	H	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₂₂₂₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B12}
L ₄₂₂₂₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B12}
L ₄₂₂₂₅	R ^{B3}	H	R ^{B4}	R ^{B12}
L ₄₂₂₂₆	H	R ^{B3}	R ^{B4}	R ^{B12}
L ₄₂₂₂₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B12}
L ₄₂₂₂₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B12}
L ₄₂₂₂₉	R ^{B3}	H	R ^{B7}	R ^{B12}
L ₄₂₂₃₀	H	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₂₂₃₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B12}
L ₄₂₂₃₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B12}
L ₄₂₂₃₃	H	H	H	R ^{B44}
L ₄₂₂₃₄	R ^{B1}	H	H	R ^{B44}
L ₄₂₂₃₅	R ^{B1}	R ^{B1}	H	R ^{B44}
L ₄₂₂₃₆	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₂₂₃₇	R ^{B1}	H	R ^{B1}	R ^{B44}
L ₄₂₂₃₈	H	H	R ^{B1}	R ^{B44}
L ₄₂₂₃₉	H	R ^{B1}	H	R ^{B44}
L ₄₂₂₄₀	H	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₂₂₄₁	H	H	R ^{A34}	R ^{B44}
L ₄₂₂₄₂	R ^{B1}	H	R ^{A34}	R ^{B44}
L ₄₂₂₄₃	H	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₂₂₄₄	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₂₂₄₅	H	H	R ^{B18}	R ^{B44}
L ₄₂₂₄₆	R ^{B1}	H	R ^{B18}	R ^{B44}
L ₄₂₂₄₇	H	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₂₂₄₈	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₂₂₄₉	H	H	R ^{B3}	R ^{B44}
L ₄₂₂₅₀	R ^{B1}	H	R ^{B3}	R ^{B44}
L ₄₂₂₅₁	H	R ^{B1}	R ^{B3}	R ^{B44}

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Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₂₅₂	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₂₂₅₃	H	H	R ^{B4}	R ^{B44}
L ₄₂₂₅₄	R ^{B1}	H	R ^{B4}	R ^{B44}
L ₄₂₂₅₅	H	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₂₂₅₆	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₂₂₅₇	H	H	R ^{B7}	R ^{B44}
L ₄₂₂₅₈	R ^{B1}	H	R ^{B7}	R ^{B44}
L ₄₂₂₅₉	H	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₂₂₆₀	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₂₂₆₁	R ^{B3}	H	H	R ^{B44}
L ₄₂₂₆₂	R ^{B3}	H	R ^{B1}	R ^{B44}
L ₄₂₂₆₃	R ^{B3}	R ^{B1}	H	R ^{B44}
L ₄₂₂₆₄	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B44}
L ₄₂₂₆₅	R ^{B3}	H	R ^{A34}	R ^{B44}
L ₄₂₂₆₆	H	R ^{B3}	R ^{A34}	R ^{B44}
L ₄₂₂₆₇	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B44}
L ₄₂₂₆₈	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B44}
L ₄₂₂₆₉	R ^{B3}	H	R ^{B18}	R ^{B44}
L ₄₂₂₇₀	H	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₂₂₇₁	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B44}
L ₄₂₂₇₂	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B44}
L ₄₂₂₇₃	R ^{B3}	H	R ^{B3}	R ^{B44}
L ₄₂₂₇₄	H	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₂₂₇₅	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B44}
L ₄₂₂₇₆	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B44}
L ₄₂₂₇₇	R ^{B3}	H	R ^{B4}	R ^{B44}
L ₄₂₂₇₈	H	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₂₂₇₉	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B44}
L ₄₂₂₈₀	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B44}
L ₄₂₂₈₁	R ^{B3}	H	R ^{B7}	R ^{B44}
L ₄₂₂₈₂	H	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₂₂₈₃	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B44}
L ₄₂₂₈₄	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B44}
L ₄₂₂₈₅	H	H	H	R ^{B45}
L ₄₂₂₈₆	R ^{B1}	H	H	R ^{B45}
L ₄₂₂₈₇	R ^{B1}	R ^{B1}	H	R ^{B45}
L ₄₂₂₈₈	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₂₂₈₉	R ^{B1}	H	R ^{B1}	R ^{B45}
L ₄₂₂₉₀	H	H	R ^{B1}	R ^{B45}
L ₄₂₂₉₁	H	R ^{B1}	H	R ^{B45}
L ₄₂₂₉₂	H	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₂₂₉₃	H	H	R ^{A34}	R ^{B45}
L ₄₂₂₉₄	R ^{B1}	H	R ^{A34}	R ^{B45}
L ₄₂₂₉₅	H	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₂₂₉₆	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₂₂₉₇	H	H	R ^{B18}	R ^{B45}
L ₄₂₂₉₈	R ^{B1}	H	R ^{B18}	R ^{B45}
L ₄₂₂₉₉	H	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₂₃₀₀	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₂₃₀₁	H	H	R ^{B3}	R ^{B45}
L ₄₂₃₀₂	R ^{B1}	H	R ^{B3}	R ^{B45}
L ₄₂₃₀₃	H	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₂₃₀₄	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₂₃₀₅	H	H	R ^{B4}	R ^{B45}
L ₄₂₃₀₆	R ^{B1}	H	R ^{B4}	R ^{B45}
L ₄₂₃₀₇	H	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₂₃₀₈	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₂₃₀₉	H	H	R ^{B7}	R ^{B45}
L ₄₂₃₁₀	R ^{B1}	H	R ^{B7}	R ^{B45}
L ₄₂₃₁₁	H	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₂₃₁₂	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₂₃₁₃	R ^{B3}	H	H	R ^{B45}
L ₄₂₃₁₄	R ^{B3}	H	R ^{B1}	R ^{B45}
L ₄₂₃₁₅	R ^{B3}	R ^{B1}	H	R ^{B45}
L ₄₂₃₁₆	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B45}
L ₄₂₃₁₇	R ^{B3}	H	R ^{A34}	R ^{B45}
L ₄₂₃₁₈	H	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₂₃₁₉	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B45}
L ₄₂₃₂₀	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B45}
L ₄₂₃₂₁	R ^{B3}	H	R ^{B18}	R ^{B45}
L ₄₂₃₂₂	H	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₂₃₂₃	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B45}
L ₄₂₃₂₄	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B45}
L ₄₂₃₂₅	R ^{B3}	H	R ^{B3}	R ^{B45}

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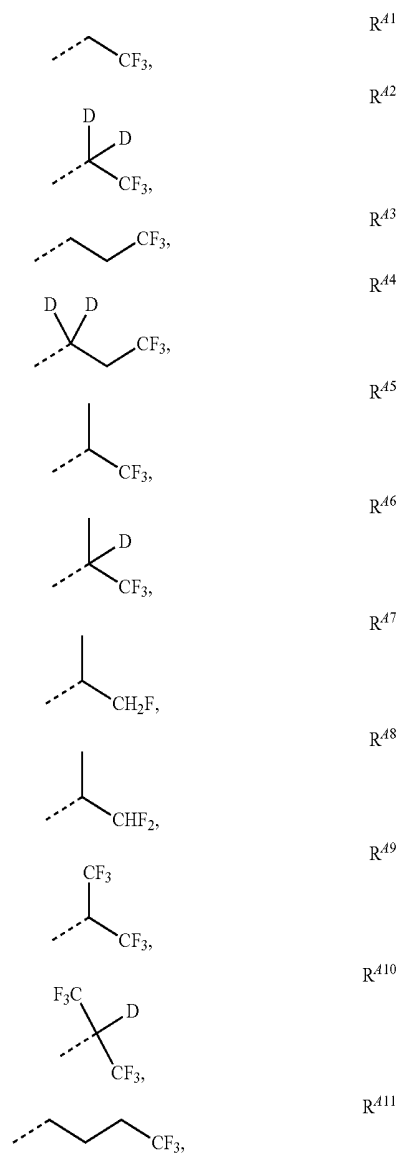
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₃₂₆	H	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₂₃₂₇	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B45}
L ₄₂₃₂₈	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B45}
L ₄₂₃₂₉	R ^{B3}	H	R ^{B4}	R ^{B45}
L ₄₂₃₃₀	H	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₂₃₃₁	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B45}
L ₄₂₃₃₂	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B45}
L ₄₂₃₃₃	R ^{B3}	H	R ^{B7}	R ^{B45}
L ₄₂₃₃₄	H	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₂₃₃₅	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B45}
L ₄₂₃₃₆	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B45}
L ₄₂₃₃₇	H	H	H	R ^{B46}
L ₄₂₃₃₈	R ^{B1}	H	H	R ^{B46}
L ₄₂₃₃₉	R ^{B1}	R ^{B1}	H	R ^{B46}
L ₄₂₃₄₀	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₂₃₄₁	R ^{B1}	H	R ^{B1}	R ^{B46}
L ₄₂₃₄₂	H	H	R ^{B1}	R ^{B46}
L ₄₂₃₄₃	H	R ^{B1}	H	R ^{B46}
L ₄₂₃₄₄	H	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₂₃₄₅	H	H	R ^{A34}	R ^{B46}
L ₄₂₃₄₆	R ^{B1}	H	R ^{A34}	R ^{B46}
L ₄₂₃₄₇	H	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₂₃₄₈	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₂₃₄₉	H	H	R ^{B18}	R ^{B46}
L ₄₂₃₅₀	R ^{B1}	H	R ^{B18}	R ^{B46}
L ₄₂₃₅₁	H	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₂₃₅₂	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₂₃₅₃	H	H	R ^{B3}	R ^{B46}
L ₄₂₃₅₄	R ^{B1}	H	R ^{B3}	R ^{B46}
L ₄₂₃₅₅	H	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₂₃₅₆	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₂₃₅₇	H	H	R ^{B4}	R ^{B46}
L ₄₂₃₅₈	R ^{B1}	H	R ^{B4}	R ^{B46}
L ₄₂₃₅₉	H	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₂₃₆₀	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₂₃₆₁	H	H	R ^{B7}	R ^{B46}
L ₄₂₃₆₂	R ^{B1}	H	R ^{B7}	R ^{B46}
L ₄₂₃₆₃	H	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₂₃₆₄	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₂₃₆₅	R ^{B3}	H	H	R ^{B46}
L ₄₂₃₆₆	R ^{B3}	H	R ^{B1}	R ^{B46}
L ₄₂₃₆₇	R ^{B3}	R ^{B1}	H	R ^{B46}
L ₄₂₃₆₈	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B46}
L ₄₂₃₆₉	R ^{B3}	H	R ^{A34}	R ^{B46}
L ₄₂₃₇₀	H	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₂₃₇₁	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B46}
L ₄₂₃₇₂	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B46}
L ₄₂₃₇₃	R ^{B3}	H	R ^{B18}	R ^{B46}
L ₄₂₃₇₄	H	R ^{B3}	R ^{B18}	R ^{B46}
L ₄₂₃₇₅	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B46}
L ₄₂₃₇₆	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B46}
L ₄₂₃₇₇	R ^{B3}	H	R ^{B3}	R ^{B46}
L ₄₂₃₇₈	H	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₂₃₇₉	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B46}
L ₄₂₃₈₀	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B46}
L ₄₂₃₈₁	R ^{B3}	H	R ^{B4}	R ^{B46}
L ₄₂₃₈₂	H	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₂₃₈₃	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B46}
L ₄₂₃₈₄	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B46}
L ₄₂₃₈₅	R ^{B3}	H	R ^{B7}	R ^{B46}
L ₄₂₃₈₆	H	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₂₃₈₇	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B46}
L ₄₂₃₈₈	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B46}
L ₄₂₃₈₉	H	H	H	R ^{B7}
L ₄₂₃₉₀	R ^{B1}	H	H	R ^{B7}
L ₄₂₃₉₁	R ^{B1}	R ^{B1}	H	R ^{B7}
L ₄₂₃₉₂	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₂₃₉₃	R ^{B1}	H	R ^{B1}	R ^{B7}
L ₄₂₃₉₄	H	H	R ^{B1}	R ^{B7}
L ₄₂₃₉₅	H	R ^{B1}	H	R ^{B7}
L ₄₂₃₉₆	H	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₂₃₉₇	H	H	R ^{A34}	R ^{B7}
L ₄₂₃₉₈	R ^{B1}	H	R ^{A34}	R ^{B7}
L ₄₂₃₉₉	H	R ^{B1}	R ^{A34}	R ^{B7}

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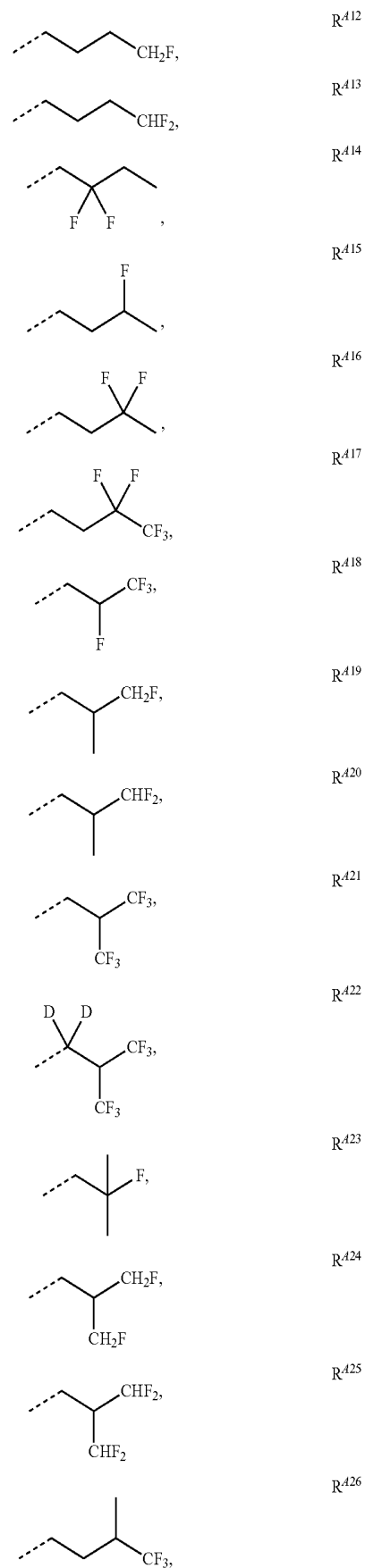
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₄₀₀	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₂₄₀₁	H	H	R ^{B18}	R ^{B7}
L ₄₂₄₀₂	R ^{B1}	H	R ^{B18}	R ^{B7}
L ₄₂₄₀₃	H	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₂₄₀₄	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₂₄₀₅	H	H	R ^{B3}	R ^{B7}
L ₄₂₄₀₆	R ^{B1}	H	R ^{B3}	R ^{B7}
L ₄₂₄₀₇	H	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₂₄₀₈	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₂₄₀₉	H	H	R ^{B4}	R ^{B7}
L ₄₂₄₁₀	R ^{B1}	H	R ^{B4}	R ^{B7}
L ₄₂₄₁₁	H	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₂₄₁₂	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₂₄₁₃	H	H	R ^{B7}	R ^{B7}
L ₄₂₄₁₄	R ^{B1}	H	R ^{B7}	R ^{B7}
L ₄₂₄₁₅	H	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₂₄₁₆	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₂₄₁₇	R ^{B3}	H	H	R ^{B7}
L ₄₂₄₁₈	R ^{B3}	H	R ^{B1}	R ^{B7}
L ₄₂₄₁₉	R ^{B3}	R ^{B1}	H	R ^{B7}
L ₄₂₄₂₀	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B7}
L ₄₂₄₂₁	R ^{B3}	H	R ^{A34}	R ^{B7}
L ₄₂₄₂₂	H	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₂₄₂₃	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B7}
L ₄₂₄₂₄	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B7}
L ₄₂₄₂₅	R ^{B3}	H	R ^{B18}	R ^{B7}
L ₄₂₄₂₆	H	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₂₄₂₇	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B7}
L ₄₂₄₂₈	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B7}
L ₄₂₄₂₉	R ^{B3}	H	R ^{B3}	R ^{B7}
L ₄₂₄₃₀	H	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₂₄₃₁	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B7}
L ₄₂₄₃₂	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B7}
L ₄₂₄₃₃	R ^{B3}	H	R ^{B4}	R ^{B7}
L ₄₂₄₃₄	H	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₂₄₃₅	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B7}
L ₄₂₄₃₆	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B7}
L ₄₂₄₃₇	R ^{B3}	H	R ^{B7}	R ^{B7}
L ₄₂₄₃₈	H	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₂₄₃₉	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B7}
L ₄₂₄₄₀	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B7}
L ₄₂₄₄₁	H	H	H	R ^{B10}
L ₄₂₄₄₂	R ^{B1}	H	H	R ^{B10}
L ₄₂₄₄₃	R ^{B1}	R ^{B1}	H	R ^{B10}
L ₄₂₄₄₄	R ^{B1}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₂₄₄₅	R ^{B1}	H	R ^{B1}	R ^{B10}
L ₄₂₄₄₆	H	H	R ^{B1}	R ^{B10}
L ₄₂₄₄₇	H	R ^{B1}	H	R ^{B10}
L ₄₂₄₄₈	H	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₂₄₄₉	H	H	R ^{A34}	R ^{B10}
L ₄₂₄₅₀	R ^{B1}	H	R ^{A34}	R ^{B10}
L ₄₂₄₅₁	H	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₂₄₅₂	R ^{B1}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₂₄₅₃	H	H	R ^{B18}	R ^{B10}
L ₄₂₄₅₄	R ^{B1}	H	R ^{B18}	R ^{B10}
L ₄₂₄₅₅	H	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₂₄₅₆	R ^{B1}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₂₄₅₇	H	H	R ^{B3}	R ^{B10}
L ₄₂₄₅₈	R ^{B1}	H	R ^{B3}	R ^{B10}
L ₄₂₄₅₉	H	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₂₄₆₀	R ^{B1}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₂₄₆₁	H	H	R ^{B4}	R ^{B10}
L ₄₂₄₆₂	R ^{B1}	H	R ^{B4}	R ^{B10}
L ₄₂₄₆₃	H	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₂₄₆₄	R ^{B1}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₂₄₆₅	H	H	R ^{B7}	R ^{B10}
L ₄₂₄₆₆	R ^{B1}	H	R ^{B7}	R ^{B10}
L ₄₂₄₆₇	H	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₂₄₆₈	R ^{B1}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₂₄₆₉	R ^{B3}	H	H	R ^{B10}
L ₄₂₄₇₀	R ^{B3}	H	R ^{B1}	R ^{B10}
L ₄₂₄₇₁	R ^{B3}	R ^{B1}	H	R ^{B10}
L ₄₂₄₇₂	R ^{B3}	R ^{B1}	R ^{B1}	R ^{B10}
L ₄₂₄₇₃	R ^{B3}	H	R ^{A34}	R ^{B10}

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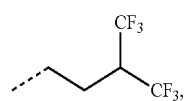
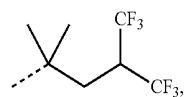
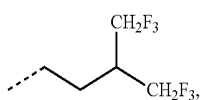
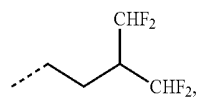
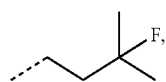
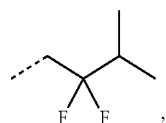
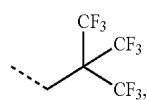
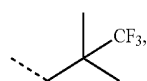
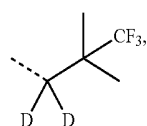
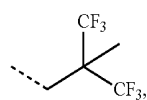
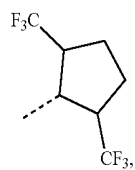
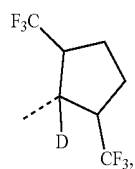
Ligand	R ¹	R ²	R ⁷	R ⁵
L ₄₂₄₇₄	H	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₂₄₇₅	R ^{B3}	R ^{B1}	R ^{A34}	R ^{B10}
L ₄₂₄₇₆	R ^{B1}	R ^{B3}	R ^{A34}	R ^{B10}
L ₄₂₄₇₇	R ^{B3}	H	R ^{B18}	R ^{B10}
L ₄₂₄₇₈	H	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₂₄₇₉	R ^{B3}	R ^{B1}	R ^{B18}	R ^{B10}
L ₄₂₄₈₀	R ^{B1}	R ^{B3}	R ^{B18}	R ^{B10}
L ₄₂₄₈₁	R ^{B3}	H	R ^{B3}	R ^{B10}
L ₄₂₄₈₂	H	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₂₄₈₃	R ^{B3}	R ^{B1}	R ^{B3}	R ^{B10}
L ₄₂₄₈₄	R ^{B1}	R ^{B3}	R ^{B3}	R ^{B10}
L ₄₂₄₈₅	R ^{B3}	H	R ^{B4}	R ^{B10}
L ₄₂₄₈₆	H	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₂₄₈₇	R ^{B3}	R ^{B1}	R ^{B4}	R ^{B10}
L ₄₂₄₈₈	R ^{B1}	R ^{B3}	R ^{B4}	R ^{B10}
L ₄₂₄₈₉	R ^{B3}	H	R ^{B7}	R ^{B10}
L ₄₂₄₉₀	H	R ^{B3}	R ^{B7}	R ^{B10}
L ₄₂₄₉₁	R ^{B3}	R ^{B1}	R ^{B7}	R ^{B10}
L ₄₂₄₉₂	R ^{B1}	R ^{B3}	R ^{B7}	R ^{B10} ,

wherein R⁴¹ to R⁴⁵¹ have the following structures:

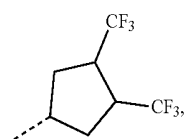
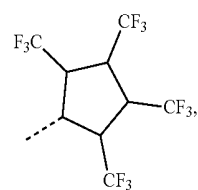
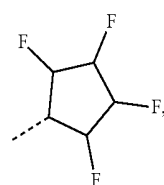
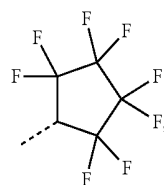
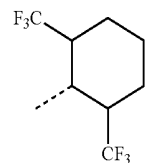
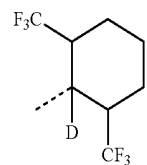
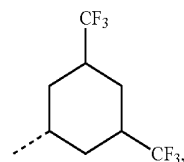
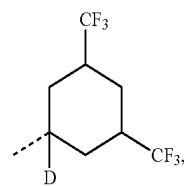
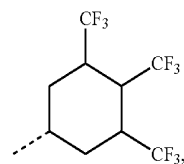
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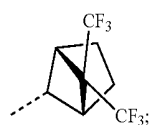
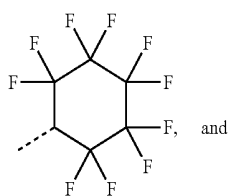
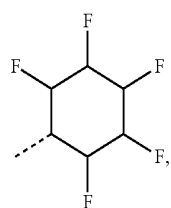
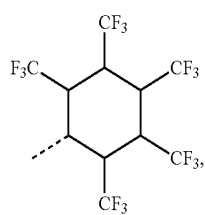
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R⁴²⁷R⁴²⁸R⁴²⁹R⁴³⁰R⁴³¹R⁴³²R⁴³³R⁴³⁴R⁴³⁵R⁴³⁶R⁴³⁷R⁴³⁸

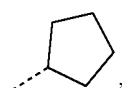
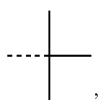
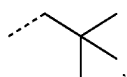
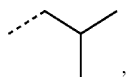
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R⁴³⁹R⁴⁴⁰R⁴⁴¹R⁴⁴²R⁴⁴³R⁴⁴⁴R⁴⁴⁵R⁴⁴⁶R⁴⁴⁷

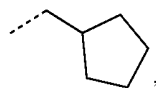
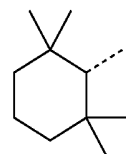
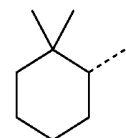
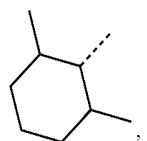
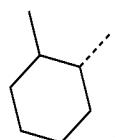
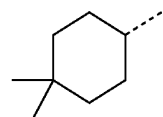
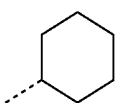
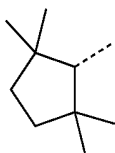
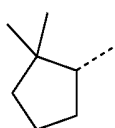
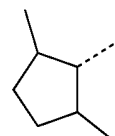
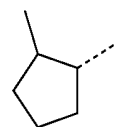
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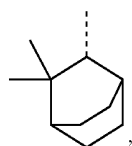
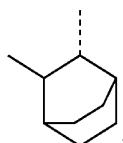
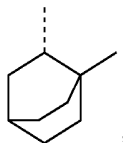
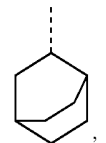
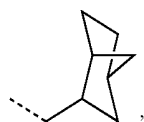
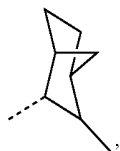
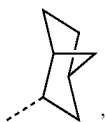
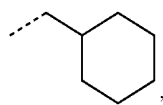
and wherein R^{B1} to R^{B46} have the following structures:

 R^{A48} R^{A49} R^{A50} R^{A51} R^{B1} R^{B2} R^{B3} R^{B4} R^{B5} R^{B6} R^{B7}

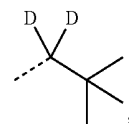
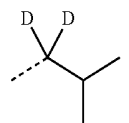
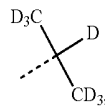
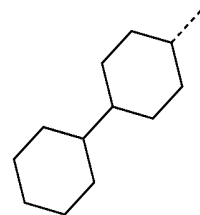
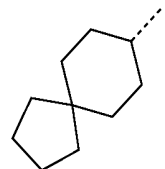
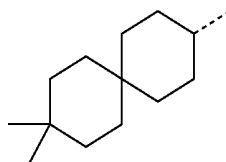
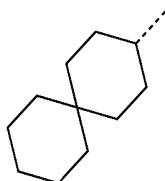
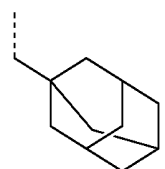
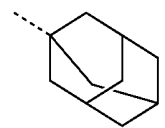
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 R^{B8} R^{B9} R^{B10} R^{B11} R^{B12} R^{B13} R^{B14} R^{B15} R^{B16} R^{B17} R^{B18}

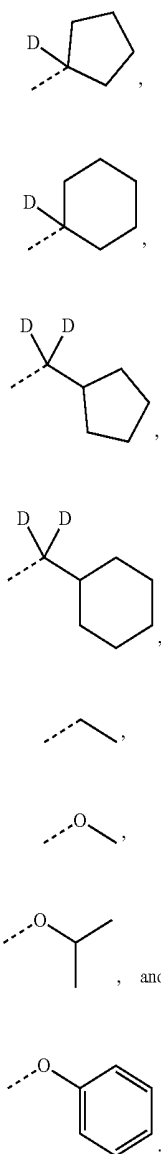
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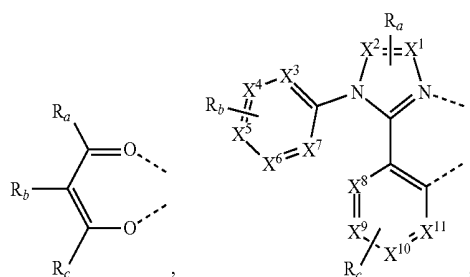


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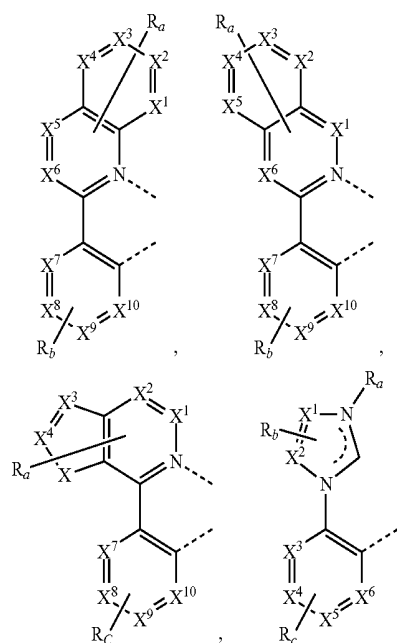
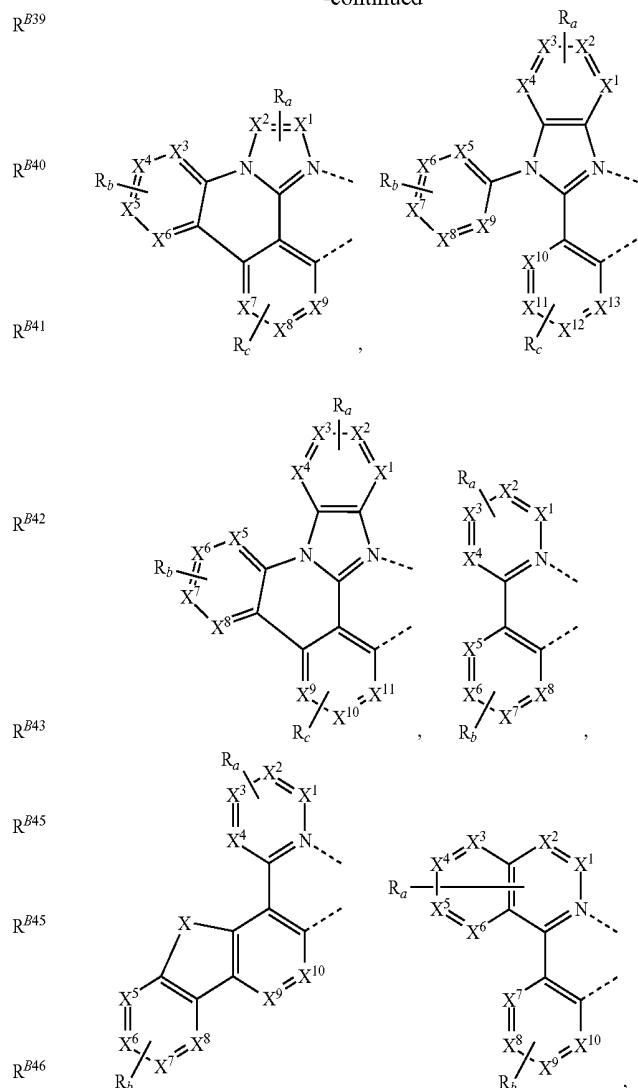


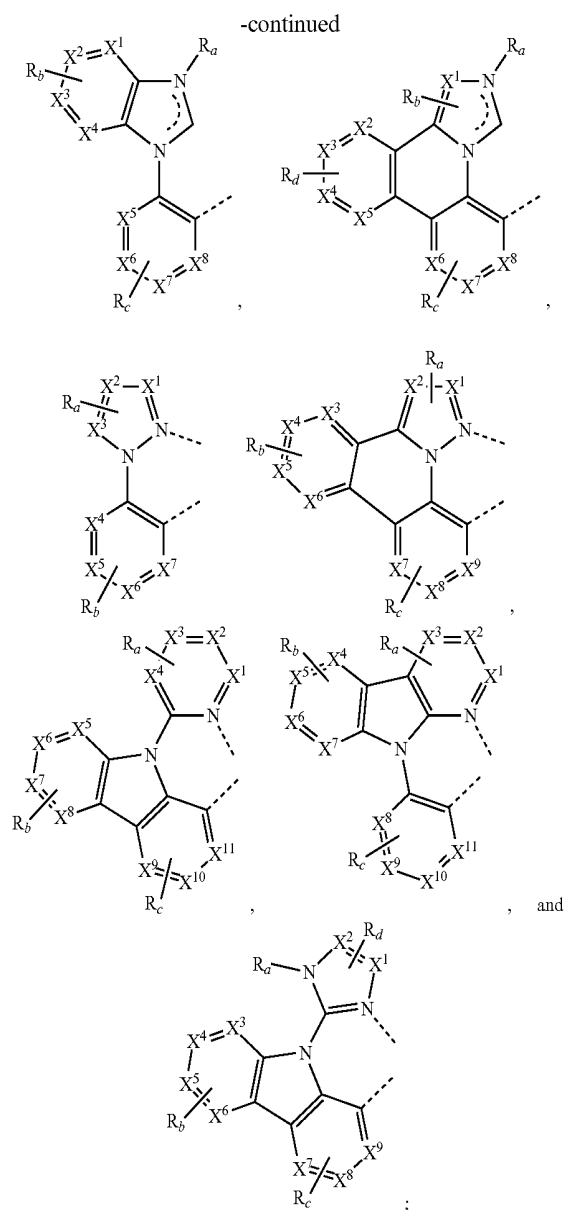
12. The compound of claim 1, wherein the compound has a formula of $M(L_A)_x(L_B)_y(L_C)_z$ wherein L_B and L_C are each a bidentate ligand; and wherein x is 1, 2, or 3; y is 0, 1, or 2; z is 0, 1, or 2; and $x+y+z$ is the oxidation state of the metal M .

13. The compound of claim 12, wherein L_B and L_C are each independently selected from the group consisting of:



-continued





wherein,

each X^1 to X^{13} are independently selected from the group consisting of carbon and nitrogen;

X is selected from the group consisting of BR' , NR' , PR' , O , S , Se , $C=O$, $S=O$, SO_2 , $CR'R''$, $SiR'R''$, and $GeR'R''$;

R' and R'' are optionally fused or joined to form a ring;

each R_a , R_b , R_c , and R_d may represent from mono substitution to the a maximum possible number of substitutions, or no substitution;

R' , R'' , R_a , R_b , R_c , and R_d are each independently a hydrogen or a substituent selected from the group consisting of deuterium, fluorine, alkyl, cycloalkyl, heteroalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, aryl, heteroaryl, nitrile, isonitrile, sulfanyl, and combinations thereof; and

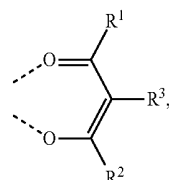
any two adjacent substituents of R_a , R_b , R_c , and R_d are optionally fused or joined to form a ring or form a multidentate ligand.

14. The compound of claim 1, wherein the compound is Compound Cz having the formula $Ir(L_{Ai})_2(L_{Cj})$;

wherein $z=27i+j-27$;

wherein i is an integer from 1 to 2492, and j is an integer from 1 to 27;

wherein L_{Cj} has the following structures based on a structure of Formula X,



in which R^1 , R^2 , and R^3 are defined as:

Ligand	R^1	R^2	R^3
L_{C1}	R^{D1}	R^{D1}	H
L_{C2}	R^{D2}	R^{D2}	H
L_{C3}	R^{D3}	R^{D3}	H
L_{C4}	R^{D4}	R^{D4}	H
L_{C5}	R^{D5}	R^{D5}	H
L_{C6}	R^{D6}	R^{D6}	H
L_{C7}	R^{D7}	R^{D7}	H
L_{C8}	R^{D8}	R^{D8}	H
L_{C9}	R^{D9}	R^{D9}	H
L_{C10}	R^{D10}	R^{D10}	H
L_{C11}	R^{D11}	R^{D11}	H
L_{C12}	R^{D12}	R^{D12}	H
L_{C13}	R^{D13}	R^{D13}	H
L_{C14}	R^{D14}	R^{D14}	H
L_{C15}	R^{D15}	R^{D15}	H
L_{C16}	R^{D16}	R^{D16}	H
L_{C17}	R^{D17}	R^{D17}	H
L_{C18}	R^{D18}	R^{D18}	H
L_{C19}	R^{D19}	R^{D19}	H
L_{C20}	R^{D20}	R^{D20}	H
L_{C21}	R^{D21}	R^{D21}	H
L_{C22}	R^{D22}	R^{D22}	H
L_{C23}	R^{D23}	R^{D23}	H
L_{C24}	R^{D24}	R^{D24}	H
L_{C25}	R^{D25}	R^{D25}	H
L_{C26}	R^{D26}	R^{D26}	H
L_{C27}	R^{D27}	R^{D27}	H
L_{C28}	R^{D28}	R^{D28}	H
L_{C29}	R^{D29}	R^{D29}	H
L_{C30}	R^{D30}	R^{D30}	H
L_{C31}	R^{D31}	R^{D31}	H
L_{C32}	R^{D32}	R^{D32}	H
L_{C33}	R^{D33}	R^{D33}	H
L_{C34}	R^{D34}	R^{D34}	H
L_{C35}	R^{D35}	R^{D35}	H
L_{C36}	R^{D40}	R^{D40}	H
L_{C37}	R^{D41}	R^{D41}	H
L_{C38}	R^{D42}	R^{D42}	H
L_{C39}	R^{D64}	R^{D64}	H
L_{C40}	R^{D66}	R^{D66}	H
L_{C41}	R^{D68}	R^{D68}	H
L_{C42}	R^{D76}	R^{D76}	H
L_{C43}	R^{D1}	R^{D2}	H
L_{C44}	R^{D1}	R^{D3}	H
L_{C45}	R^{D1}	R^{D4}	H
L_{C46}	R^{D1}	R^{D5}	H
L_{C47}	R^{D1}	R^{D6}	H
L_{C48}	R^{D1}	R^{D7}	H
L_{C49}	R^{D1}	R^{D8}	H
L_{C50}	R^{D1}	R^{D9}	H
L_{C51}	R^{D1}	R^{D10}	H
L_{C52}	R^{D1}	R^{D11}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C53}	R ^{D1}	R ^{D12}	H
L _{C54}	R ^{D1}	R ^{D13}	H
L _{C55}	R ^{D1}	R ^{D14}	H
L _{C56}	R ^{D1}	R ^{D15}	H
L _{C57}	R ^{D1}	R ^{D16}	H
L _{C58}	R ^{D1}	R ^{D17}	H
L _{C59}	R ^{D1}	R ^{D18}	H
L _{C60}	R ^{D1}	R ^{D19}	H
L _{C61}	R ^{D1}	R ^{D20}	H
L _{C62}	R ^{D1}	R ^{D21}	H
L _{C63}	R ^{D1}	R ^{D22}	H
L _{C64}	R ^{D1}	R ^{D23}	H
L _{C65}	R ^{D1}	R ^{D24}	H
L _{C66}	R ^{D1}	R ^{D25}	H
L _{C67}	R ^{D1}	R ^{D26}	H
L _{C68}	R ^{D1}	R ^{D27}	H
L _{C69}	R ^{D1}	R ^{D28}	H
L _{C70}	R ^{D1}	R ^{D29}	H
L _{C71}	R ^{D1}	R ^{D30}	H
L _{C72}	R ^{D1}	R ^{D31}	H
L _{C73}	R ^{D1}	R ^{D32}	H
L _{C74}	R ^{D1}	R ^{D33}	H
L _{C75}	R ^{D1}	R ^{D34}	H
L _{C76}	R ^{D1}	R ^{D35}	H
L _{C77}	R ^{D1}	R ^{D40}	H
L _{C78}	R ^{D1}	R ^{D41}	H
L _{C79}	R ^{D1}	R ^{D42}	H
L _{C80}	R ^{D1}	R ^{D64}	H
L _{C81}	R ^{D1}	R ^{D66}	H
L _{C82}	R ^{D1}	R ^{D68}	H
L _{C83}	R ^{D1}	R ^{D76}	H
L _{C84}	R ^{D2}	R ^{D1}	H
L _{C85}	R ^{D2}	R ^{D3}	H
L _{C86}	R ^{D2}	R ^{D4}	H
L _{C87}	R ^{D2}	R ^{D5}	H
L _{C88}	R ^{D2}	R ^{D6}	H
L _{C89}	R ^{D2}	R ^{D7}	H
L _{C90}	R ^{D2}	R ^{D8}	H
L _{C91}	R ^{D2}	R ^{D9}	H
L _{C92}	R ^{D2}	R ^{D10}	H
L _{C93}	R ^{D2}	R ^{D11}	H
L _{C94}	R ^{D2}	R ^{D12}	H
L _{C95}	R ^{D2}	R ^{D13}	H
L _{C96}	R ^{D2}	R ^{D14}	H
L _{C97}	R ^{D2}	R ^{D15}	H
L _{C98}	R ^{D2}	R ^{D16}	H
L _{C99}	R ^{D2}	R ^{D17}	H
L _{C100}	R ^{D2}	R ^{D18}	H
L _{C101}	R ^{D2}	R ^{D19}	H
L _{C102}	R ^{D2}	R ^{D20}	H
L _{C103}	R ^{D2}	R ^{D21}	H
L _{C104}	R ^{D2}	R ^{D22}	H
L _{C105}	R ^{D2}	R ^{D23}	H
L _{C106}	R ^{D2}	R ^{D24}	H
L _{C107}	R ^{D2}	R ^{D25}	H
L _{C108}	R ^{D2}	R ^{D26}	H
L _{C109}	R ^{D2}	R ^{D27}	H
L _{C110}	R ^{D2}	R ^{D28}	H
L _{C111}	R ^{D2}	R ^{D29}	H
L _{C112}	R ^{D2}	R ^{D30}	H
L _{C113}	R ^{D2}	R ^{D31}	H
L _{C114}	R ^{D2}	R ^{D32}	H
L _{C115}	R ^{D2}	R ^{D33}	H
L _{C116}	R ^{D2}	R ^{D34}	H
L _{C117}	R ^{D2}	R ^{D35}	H
L _{C118}	R ^{D2}	R ^{D40}	H
L _{C119}	R ^{D2}	R ^{D41}	H
L _{C120}	R ^{D2}	R ^{D42}	H
L _{C121}	R ^{D2}	R ^{D64}	H
L _{C122}	R ^{D2}	R ^{D66}	H
L _{C123}	R ^{D2}	R ^{D68}	H
L _{C124}	R ^{D2}	R ^{D76}	H
L _{C125}	R ^{D3}	R ^{D4}	H
L _{C126}	R ^{D3}	R ^{D5}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C127}	R ^{D3}	R ^{D6}	H
L _{C128}	R ^{D3}	R ^{D7}	H
L _{C129}	R ^{D3}	R ^{D8}	H
L _{C130}	R ^{D3}	R ^{D9}	H
L _{C131}	R ^{D3}	R ^{D10}	H
L _{C132}	R ^{D3}	R ^{D11}	H
L _{C133}	R ^{D3}	R ^{D12}	H
L _{C134}	R ^{D3}	R ^{D13}	H
L _{C135}	R ^{D3}	R ^{D14}	H
L _{C136}	R ^{D3}	R ^{D15}	H
L _{C137}	R ^{D3}	R ^{D16}	H
L _{C138}	R ^{D3}	R ^{D17}	H
L _{C139}	R ^{D3}	R ^{D18}	H
L _{C140}	R ^{D3}	R ^{D19}	H
L _{C141}	R ^{D3}	R ^{D20}	H
L _{C142}	R ^{D3}	R ^{D21}	H
L _{C143}	R ^{D3}	R ^{D22}	H
L _{C144}	R ^{D3}	R ^{D23}	H
L _{C145}	R ^{D3}	R ^{D24}	H
L _{C146}	R ^{D3}	R ^{D25}	H
L _{C147}	R ^{D3}	R ^{D26}	H
L _{C148}	R ^{D3}	R ^{D27}	H
L _{C149}	R ^{D3}	R ^{D28}	H
L _{C150}	R ^{D3}	R ^{D29}	H
L _{C151}	R ^{D3}	R ^{D30}	H
L _{C152}	R ^{D3}	R ^{D31}	H
L _{C153}	R ^{D3}	R ^{D32}	H
L _{C154}	R ^{D3}	R ^{D33}	H
L _{C155}	R ^{D3}	R ^{D34}	H
L _{C156}	R ^{D3}	R ^{D35}	H
L _{C157}	R ^{D3}	R ^{D40}	H
L _{C158}	R ^{D3}	R ^{D41}	H
L _{C159}	R ^{D3}	R ^{D42}	H
L _{C160}	R ^{D3}	R ^{D64}	H
L _{C161}	R ^{D3}	R ^{D66}	H
L _{C162}	R ^{D3}	R ^{D68}	H
L _{C163}	R ^{D3}	R ^{D76}	H
L _{C164}	R ^{D4}	R ^{D5}	H
L _{C165}	R ^{D4}	R ^{D6}	H
L _{C166}	R ^{D4}	R ^{D7}	H
L _{C167}	R ^{D4}	R ^{D8}	H
L _{C168}	R ^{D4}	R ^{D9}	H
L _{C169}	R ^{D4}	R ^{D10}	H
L _{C170}	R ^{D4}	R ^{D11}	H
L _{C171}	R ^{D4}	R ^{D12}	H
L _{C172}	R ^{D4}	R ^{D13}	H
L _{C173}	R ^{D4}	R ^{D14}	H
L _{C174}	R ^{D4}	R ^{D15}	H
L _{C175}	R ^{D4}	R ^{D16}	H
L _{C176}	R ^{D4}	R ^{D17}	H
L _{C177}	R ^{D4}	R ^{D18}	H
L _{C178}	R ^{D4}	R ^{D19}	H
L _{C179}	R ^{D4}	R ^{D20}	H
L _{C180}	R ^{D4}	R ^{D21}	H
L _{C181}	R ^{D4}	R ^{D22}	H
L _{C182}	R ^{D4}	R ^{D23}	H
L _{C183}	R ^{D4}	R ^{D24}	H
L _{C184}	R ^{D4}	R ^{D25}	H
L _{C185}	R ^{D4}	R ^{D26}	H
L _{C186}	R ^{D4}	R ^{D27}	H
L _{C187}	R ^{D4}	R ^{D28}	H
L _{C188}	R ^{D4}	R ^{D29}	H
L _{C189}	R ^{D4}	R ^{D30}	H
L _{C190}	R ^{D4}	R ^{D31}	H
L _{C191}	R ^{D4}	R ^{D32}	H
L _{C192}	R ^{D4}	R ^{D33}	H
L _{C193}	R ^{D4}	R ^{D34}	H
L _{C194}	R ^{D4}	R ^{D35}	H
L _{C195}	R ^{D4}	R ^{D40}	H
L _{C196}	R ^{D4}	R ^{D41}	H
L _{C197}	R ^{D4}	R ^{D42}	H
L _{C198}	R ^{D4}	R ^{D64}	H
L _{C199}	R ^{D4}	R ^{D66}	H
L _{C200}	R ^{D4}	R ^{D68}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C201}	R ^{D4}	R ^{D76}	H
L _{C202}	R ^{D4}	R ^{D1}	H
L _{C203}	R ^{D7}	R ^{D5}	H
L _{C204}	R ^{D7}	R ^{D6}	H
L _{C205}	R ^{D7}	R ^{D8}	H
L _{C206}	R ^{D7}	R ^{D9}	H
L _{C207}	R ^{D7}	R ^{D10}	H
L _{C208}	R ^{D7}	R ^{D11}	H
L _{C209}	R ^{D7}	R ^{D12}	H
L _{C210}	R ^{D7}	R ^{D13}	H
L _{C211}	R ^{D7}	R ^{D14}	H
L _{C212}	R ^{D7}	R ^{D15}	H
L _{C213}	R ^{D7}	R ^{D16}	H
L _{C214}	R ^{D7}	R ^{D17}	H
L _{C215}	R ^{D7}	R ^{D18}	H
L _{C216}	R ^{D7}	R ^{D19}	H
L _{C217}	R ^{D7}	R ^{D20}	H
L _{C218}	R ^{D7}	R ^{D21}	H
L _{C219}	R ^{D7}	R ^{D22}	H
L _{C220}	R ^{D7}	R ^{D23}	H
L _{C221}	R ^{D7}	R ^{D24}	H
L _{C222}	R ^{D7}	R ^{D25}	H
L _{C223}	R ^{D7}	R ^{D26}	H
L _{C224}	R ^{D7}	R ^{D27}	H
L _{C225}	R ^{D7}	R ^{D28}	H
L _{C226}	R ^{D7}	R ^{D29}	H
L _{C227}	R ^{D7}	R ^{D30}	H
L _{C228}	R ^{D7}	R ^{D31}	H
L _{C229}	R ^{D7}	R ^{D32}	H
L _{C230}	R ^{D7}	R ^{D33}	H
L _{C231}	R ^{D7}	R ^{D34}	H
L _{C232}	R ^{D7}	R ^{D35}	H
L _{C233}	R ^{D7}	R ^{D40}	H
L _{C234}	R ^{D7}	R ^{D41}	H
L _{C235}	R ^{D7}	R ^{D42}	H
L _{C236}	R ^{D7}	R ^{D64}	H
L _{C237}	R ^{D7}	R ^{D66}	H
L _{C238}	R ^{D7}	R ^{D68}	H
L _{C239}	R ^{D7}	R ^{D76}	H
L _{C240}	R ^{D8}	R ^{D5}	H
L _{C241}	R ^{D8}	R ^{D6}	H
L _{C242}	R ^{D8}	R ^{D9}	H
L _{C243}	R ^{D8}	R ^{D10}	H
L _{C244}	R ^{D8}	R ^{D11}	H
L _{C245}	R ^{D8}	R ^{D12}	H
L _{C246}	R ^{D8}	R ^{D13}	H
L _{C247}	R ^{D8}	R ^{D14}	H
L _{C248}	R ^{D8}	R ^{D15}	H
L _{C249}	R ^{D8}	R ^{D16}	H
L _{C250}	R ^{D8}	R ^{D17}	H
L _{C251}	R ^{D8}	R ^{D18}	H
L _{C252}	R ^{D8}	R ^{D19}	H
L _{C253}	R ^{D8}	R ^{D20}	H
L _{C254}	R ^{D8}	R ^{D21}	H
L _{C255}	R ^{D8}	R ^{D22}	H
L _{C256}	R ^{D8}	R ^{D23}	H
L _{C257}	R ^{D8}	R ^{D24}	H
L _{C258}	R ^{D8}	R ^{D25}	H
L _{C259}	R ^{D8}	R ^{D26}	H
L _{C260}	R ^{D8}	R ^{D27}	H
L _{C261}	R ^{D8}	R ^{D28}	H
L _{C262}	R ^{D8}	R ^{D29}	H
L _{C263}	R ^{D8}	R ^{D30}	H
L _{C264}	R ^{D8}	R ^{D31}	H
L _{C265}	R ^{D8}	R ^{D32}	H
L _{C266}	R ^{D8}	R ^{D33}	H
L _{C267}	R ^{D8}	R ^{D34}	H
L _{C268}	R ^{D8}	R ^{D35}	H
L _{C269}	R ^{D8}	R ^{D40}	H
L _{C270}	R ^{D8}	R ^{D41}	H
L _{C271}	R ^{D8}	R ^{D42}	H
L _{C272}	R ^{D8}	R ^{D64}	H
L _{C273}	R ^{D8}	R ^{D66}	H
L _{C274}	R ^{D8}	R ^{D68}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C275}	R ^{D8}	R ^{D76}	H
L _{C276}	R ^{D11}	R ^{D5}	H
L _{C277}	R ^{D11}	R ^{D6}	H
L _{C278}	R ^{D11}	R ^{D9}	H
L _{C279}	R ^{D11}	R ^{D10}	H
L _{C280}	R ^{D11}	R ^{D12}	H
L _{C281}	R ^{D11}	R ^{D13}	H
L _{C282}	R ^{D11}	R ^{D14}	H
L _{C283}	R ^{D11}	R ^{D15}	H
L _{C284}	R ^{D11}	R ^{D16}	H
L _{C285}	R ^{D11}	R ^{D17}	H
L _{C286}	R ^{D11}	R ^{D18}	H
L _{C287}	R ^{D11}	R ^{D19}	H
L _{C288}	R ^{D11}	R ^{D20}	H
L _{C289}	R ^{D11}	R ^{D21}	H
L _{C290}	R ^{D11}	R ^{D22}	H
L _{C291}	R ^{D11}	R ^{D23}	H
L _{C292}	R ^{D11}	R ^{D24}	H
L _{C293}	R ^{D11}	R ^{D25}	H
L _{C294}	R ^{D11}	R ^{D26}	H
L _{C295}	R ^{D11}	R ^{D27}	H
L _{C296}	R ^{D11}	R ^{D28}	H
L _{C297}	R ^{D11}	R ^{D29}	H
L _{C298}	R ^{D11}	R ^{D30}	H
L _{C299}	R ^{D11}	R ^{D31}	H
L _{C300}	R ^{D11}	R ^{D32}	H
L _{C301}	R ^{D11}	R ^{D33}	H
L _{C302}	R ^{D11}	R ^{D34}	H
L _{C303}	R ^{D11}	R ^{D35}	H
L _{C304}	R ^{D11}	R ^{D40}	H
L _{C305}	R ^{D11}	R ^{D41}	H
L _{C306}	R ^{D11}	R ^{D42}	H
L _{C307}	R ^{D11}	R ^{D64}	H
L _{C308}	R ^{D11}	R ^{D66}	H
L _{C309}	R ^{D11}	R ^{D68}	H
L _{C310}	R ^{D11}	R ^{D76}	H
L _{C311}	R ^{D13}	R ^{D5}	H
L _{C312}	R ^{D13}	R ^{D6}	H
L _{C313}	R ^{D13}	R ^{D9}	H
L _{C314}	R ^{D13}	R ^{D10}	H
L _{C315}	R ^{D13}	R ^{D12}	H
L _{C316}	R ^{D13}	R ^{D14}	H
L _{C317}	R ^{D13}	R ^{D15}	H
L _{C318}	R ^{D13}	R ^{D16}	H
L _{C319}	R ^{D13}	R ^{D17}	H
L _{C320}	R ^{D13}	R ^{D18}	H
L _{C321}	R ^{D13}	R ^{D19}	H
L _{C322}	R ^{D13}	R ^{D20}	H
L _{C323}	R ^{D13}	R ^{D21}	H
L _{C324}	R ^{D13}	R ^{D22}	H
L _{C325}	R ^{D13}	R ^{D23}	H
L _{C326}	R ^{D13}	R ^{D24}	H
L _{C327}	R ^{D13}	R ^{D25}	H
L _{C328}	R ^{D13}	R ^{D26}	H
L _{C329}	R ^{D13}	R ^{D27}	H
L _{C330}	R ^{D13}	R ^{D28}	H
L _{C331}	R ^{D13}	R ^{D29}	H
L _{C332}	R ^{D13}	R ^{D30}	H
L _{C333}	R ^{D13}	R ^{D31}	H
L _{C334}	R ^{D13}	R ^{D32}	H
L _{C335}	R ^{D13}	R ^{D33}	H
L _{C336}	R ^{D13}	R ^{D34}	H
L _{C337}	R ^{D13}	R ^{D35}	H
L _{C338}	R ^{D13}	R ^{D40}	H
L _{C339}	R ^{D13}	R ^{D41}	H
L _{C340}	R ^{D13}	R ^{D42}	H
L _{C341}	R ^{D13}	R ^{D64}	H
L _{C342}	R ^{D13}	R ^{D66}	H
L _{C343}	R ^{D13}	R ^{D68}	H
L _{C344}	R ^{D13}	R ^{D76}	H
L _{C345}	R ^{D14}	R ^{D5}	H
L _{C346}	R ^{D14}	R ^{D6}	H
L _{C347}	R ^{D14}	R ^{D9}	H
L _{C348}	R ^{D14}	R ^{D10}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C349}	R ^{D14}	R ^{D12}	H
L _{C350}	R ^{D14}	R ^{D15}	H
L _{C351}	R ^{D14}	R ^{D16}	H
L _{C352}	R ^{D14}	R ^{D17}	H
L _{C353}	R ^{D14}	R ^{D18}	H
L _{C354}	R ^{D14}	R ^{D19}	H
L _{C355}	R ^{D14}	R ^{D20}	H
L _{C356}	R ^{D14}	R ^{D21}	H
L _{C357}	R ^{D14}	R ^{D22}	H
L _{C358}	R ^{D14}	R ^{D23}	H
L _{C359}	R ^{D14}	R ^{D24}	H
L _{C360}	R ^{D14}	R ^{D25}	H
L _{C361}	R ^{D14}	R ^{D26}	H
L _{C362}	R ^{D14}	R ^{D27}	H
L _{C363}	R ^{D14}	R ^{D28}	H
L _{C364}	R ^{D14}	R ^{D29}	H
L _{C365}	R ^{D14}	R ^{D30}	H
L _{C366}	R ^{D14}	R ^{D31}	H
L _{C367}	R ^{D14}	R ^{D32}	H
L _{C368}	R ^{D14}	R ^{D33}	H
L _{C369}	R ^{D14}	R ^{D34}	H
L _{C370}	R ^{D14}	R ^{D35}	H
L _{C371}	R ^{D14}	R ^{D40}	H
L _{C372}	R ^{D14}	R ^{D41}	H
L _{C373}	R ^{D14}	R ^{D42}	H
L _{C374}	R ^{D14}	R ^{D64}	H
L _{C375}	R ^{D14}	R ^{D66}	H
L _{C376}	R ^{D14}	R ^{D68}	H
L _{C377}	R ^{D14}	R ^{D76}	H
L _{C378}	R ^{D22}	R ^{D5}	H
L _{C379}	R ^{D22}	R ^{D6}	H
L _{C380}	R ^{D22}	R ^{D9}	H
L _{C381}	R ^{D22}	R ^{D10}	H
L _{C382}	R ^{D22}	R ^{D12}	H
L _{C383}	R ^{D22}	R ^{D15}	H
L _{C384}	R ^{D22}	R ^{D16}	H
L _{C385}	R ^{D22}	R ^{D17}	H
L _{C386}	R ^{D22}	R ^{D18}	H
L _{C387}	R ^{D22}	R ^{D19}	H
L _{C388}	R ^{D22}	R ^{D20}	H
L _{C389}	R ^{D22}	R ^{D21}	H
L _{C390}	R ^{D22}	R ^{D23}	H
L _{C391}	R ^{D22}	R ^{D24}	H
L _{C392}	R ^{D22}	R ^{D25}	H
L _{C393}	R ^{D22}	R ^{D26}	H
L _{C394}	R ^{D22}	R ^{D27}	H
L _{C395}	R ^{D22}	R ^{D28}	H
L _{C396}	R ^{D22}	R ^{D29}	H
L _{C397}	R ^{D22}	R ^{D30}	H
L _{C398}	R ^{D22}	R ^{D31}	H
L _{C399}	R ^{D22}	R ^{D32}	H
L _{C400}	R ^{D22}	R ^{D33}	H
L _{C401}	R ^{D22}	R ^{D34}	H
L _{C402}	R ^{D22}	R ^{D35}	H
L _{C403}	R ^{D22}	R ^{D40}	H
L _{C404}	R ^{D22}	R ^{D41}	H
L _{C405}	R ^{D22}	R ^{D42}	H
L _{C406}	R ^{D22}	R ^{D64}	H
L _{C407}	R ^{D22}	R ^{D66}	H
L _{C408}	R ^{D22}	R ^{D68}	H
L _{C409}	R ^{D22}	R ^{D76}	H
L _{C410}	R ^{D26}	R ^{D5}	H
L _{C411}	R ^{D26}	R ^{D6}	H
L _{C412}	R ^{D26}	R ^{D9}	H
L _{C413}	R ^{D26}	R ^{D10}	H
L _{C414}	R ^{D26}	R ^{D12}	H
L _{C415}	R ^{D26}	R ^{D15}	H
L _{C416}	R ^{D26}	R ^{D16}	H
L _{C417}	R ^{D26}	R ^{D17}	H
L _{C418}	R ^{D26}	R ^{D18}	H
L _{C419}	R ^{D26}	R ^{D19}	H
L _{C420}	R ^{D26}	R ^{D20}	H
L _{C421}	R ^{D26}	R ^{D21}	H
L _{C422}	R ^{D26}	R ^{D23}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C423}	R ^{D26}	R ^{D24}	H
L _{C424}	R ^{D26}	R ^{D25}	H
L _{C425}	R ^{D26}	R ^{D27}	H
L _{C426}	R ^{D26}	R ^{D28}	H
L _{C427}	R ^{D26}	R ^{D29}	H
L _{C428}	R ^{D26}	R ^{D30}	H
L _{C429}	R ^{D26}	R ^{D31}	H
L _{C430}	R ^{D26}	R ^{D32}	H
L _{C431}	R ^{D26}	R ^{D33}	H
L _{C432}	R ^{D26}	R ^{D34}	H
L _{C433}	R ^{D26}	R ^{D35}	H
L _{C434}	R ^{D26}	R ^{D40}	H
L _{C435}	R ^{D26}	R ^{D41}	H
L _{C436}	R ^{D26}	R ^{D42}	H
L _{C437}	R ^{D26}	R ^{D64}	H
L _{C438}	R ^{D26}	R ^{D66}	H
L _{C439}	R ^{D26}	R ^{D68}	H
L _{C440}	R ^{D26}	R ^{D76}	H
L _{C441}	R ^{D35}	R ^{D5}	H
L _{C442}	R ^{D35}	R ^{D6}	H
L _{C443}	R ^{D35}	R ^{D9}	H
L _{C444}	R ^{D35}	R ^{D10}	H
L _{C445}	R ^{D35}	R ^{D12}	H
L _{C446}	R ^{D35}	R ^{D15}	H
L _{C447}	R ^{D35}	R ^{D16}	H
L _{C448}	R ^{D35}	R ^{D17}	H
L _{C449}	R ^{D35}	R ^{D18}	H
L _{C450}	R ^{D35}	R ^{D19}	H
L _{C451}	R ^{D35}	R ^{D20}	H
L _{C452}	R ^{D35}	R ^{D21}	H
L _{C453}	R ^{D35}	R ^{D23}	H
L _{C454}	R ^{D35}	R ^{D24}	H
L _{C455}	R ^{D35}	R ^{D25}	H
L _{C456}	R ^{D35}	R ^{D27}	H
L _{C457}	R ^{D35}	R ^{D28}	H
L _{C458}	R ^{D35}	R ^{D29}	H
L _{C459}	R ^{D35}	R ^{D30}	H
L _{C460}	R ^{D35}	R ^{D31}	H
L _{C461}	R ^{D35}	R ^{D32}	H
L _{C462}	R ^{D35}	R ^{D33}	H
L _{C463}	R ^{D35}	R ^{D34}	H
L _{C464}	R ^{D35}	R ^{D40}	H
L _{C465}	R ^{D35}	R ^{D41}	H
L _{C466}	R ^{D35}	R ^{D42}	H
L _{C467}	R ^{D35}	R ^{D64}	H
L _{C468}	R ^{D35}	R ^{D66}	H
L _{C469}	R ^{D35}	R ^{D68}	H
L _{C470}	R ^{D35}	R ^{D76}	H
L _{C471}	R ^{D40}	R ^{D5}	H
L _{C472}	R ^{D40}	R ^{D6}	H
L _{C473}	R ^{D40}	R ^{D9}	H
L _{C474}	R ^{D40}	R ^{D10}	H
L _{C475}	R ^{D40}	R ^{D12}	H
L _{C476}	R ^{D40}	R ^{D15}	H
L _{C477}	R ^{D40}	R ^{D16}	H
L _{C478}	R ^{D40}	R ^{D17}	H
L _{C479}	R ^{D40}	R ^{D18}	H
L _{C480}	R ^{D40}	R ^{D19}	H
L _{C481}	R ^{D40}	R ^{D20}	H
L _{C482}	R ^{D40}	R ^{D21}	H
L _{C483}	R ^{D40}	R ^{D23}	H
L _{C484}	R ^{D40}	R ^{D24}	H
L _{C485}	R ^{D40}	R ^{D25}	H
L _{C486}	R ^{D40}	R ^{D27}	H
L _{C487}	R ^{D40}	R ^{D28}	H
L _{C488}	R ^{D40}	R ^{D29}	H
L _{C489}	R ^{D40}	R ^{D30}	H
L _{C490}	R ^{D40}	R ^{D31}	H
L _{C491}	R ^{D40}	R ^{D32}	H
L _{C492}	R ^{D40}	R ^{D33}	H
L _{C493}	R ^{D40}	R ^{D34}	H
L _{C494}	R ^{D40}	R ^{D41}	H
L _{C495}	R ^{D40}	R ^{D42}	H
L _{C496}	R ^{D40}	R ^{D64}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C497}	R ^{D40}	R ^{D66}	H
L _{C498}	R ^{D40}	R ^{D68}	H
L _{C499}	R ^{D40}	R ^{D76}	H
L _{C500}	R ^{D41}	R ^{D5}	H
L _{C501}	R ^{D41}	R ^{D6}	H
L _{C502}	R ^{D41}	R ^{D9}	H
L _{C503}	R ^{D41}	R ^{D10}	H
L _{C504}	R ^{D41}	R ^{D12}	H
L _{C505}	R ^{D41}	R ^{D15}	H
L _{C506}	R ^{D41}	R ^{D16}	H
L _{C507}	R ^{D41}	R ^{D17}	H
L _{C508}	R ^{D41}	R ^{D18}	H
L _{C509}	R ^{D41}	R ^{D19}	H
L _{C510}	R ^{D41}	R ^{D20}	H
L _{C511}	R ^{D41}	R ^{D21}	H
L _{C512}	R ^{D41}	R ^{D23}	H
L _{C513}	R ^{D41}	R ^{D24}	H
L _{C514}	R ^{D41}	R ^{D25}	H
L _{C515}	R ^{D41}	R ^{D27}	H
L _{C516}	R ^{D41}	R ^{D28}	H
L _{C517}	R ^{D41}	R ^{D29}	H
L _{C518}	R ^{D41}	R ^{D30}	H
L _{C519}	R ^{D41}	R ^{D31}	H
L _{C520}	R ^{D41}	R ^{D32}	H
L _{C521}	R ^{D41}	R ^{D33}	H
L _{C522}	R ^{D41}	R ^{D34}	H
L _{C523}	R ^{D41}	R ^{D42}	H
L _{C524}	R ^{D41}	R ^{D64}	H
L _{C525}	R ^{D41}	R ^{D66}	H
L _{C526}	R ^{D41}	R ^{D68}	H
L _{C527}	R ^{D41}	R ^{D76}	H
L _{C528}	R ^{D64}	R ^{D5}	H
L _{C529}	R ^{D64}	R ^{D6}	H
L _{C530}	R ^{D64}	R ^{D9}	H
L _{C531}	R ^{D64}	R ^{D10}	H
L _{C532}	R ^{D64}	R ^{D12}	H
L _{C533}	R ^{D64}	R ^{D15}	H
L _{C534}	R ^{D64}	R ^{D16}	H
L _{C535}	R ^{D64}	R ^{D17}	H
L _{C536}	R ^{D64}	R ^{D18}	H
L _{C537}	R ^{D64}	R ^{D19}	H
L _{C538}	R ^{D64}	R ^{D20}	H
L _{C539}	R ^{D64}	R ^{D21}	H
L _{C540}	R ^{D64}	R ^{D23}	H
L _{C541}	R ^{D64}	R ^{D24}	H
L _{C542}	R ^{D64}	R ^{D25}	H
L _{C543}	R ^{D64}	R ^{D27}	H
L _{C544}	R ^{D64}	R ^{D28}	H
L _{C545}	R ^{D64}	R ^{D29}	H
L _{C546}	R ^{D64}	R ^{D30}	H
L _{C547}	R ^{D64}	R ^{D31}	H
L _{C548}	R ^{D64}	R ^{D32}	H
L _{C549}	R ^{D64}	R ^{D33}	H
L _{C550}	R ^{D64}	R ^{D34}	H
L _{C551}	R ^{D64}	R ^{D42}	H
L _{C552}	R ^{D64}	R ^{D64}	H
L _{C553}	R ^{D64}	R ^{D66}	H
L _{C554}	R ^{D64}	R ^{D68}	H
L _{C555}	R ^{D64}	R ^{D76}	H
L _{C556}	R ^{D66}	R ^{D5}	H
L _{C557}	R ^{D66}	R ^{D6}	H
L _{C558}	R ^{D66}	R ^{D9}	H
L _{C559}	R ^{D66}	R ^{D10}	H
L _{C560}	R ^{D66}	R ^{D12}	H
L _{C561}	R ^{D66}	R ^{D15}	H
L _{C562}	R ^{D66}	R ^{D16}	H
L _{C563}	R ^{D66}	R ^{D17}	H
L _{C564}	R ^{D66}	R ^{D18}	H
L _{C565}	R ^{D66}	R ^{D19}	H
L _{C566}	R ^{D66}	R ^{D20}	H
L _{C567}	R ^{D66}	R ^{D21}	H
L _{C568}	R ^{D66}	R ^{D23}	H
L _{C569}	R ^{D66}	R ^{D24}	H
L _{C570}	R ^{D66}	R ^{D25}	H

-continued

Ligand	R ¹	R ²	R ³
L _{C571}	R ^{D66}	R ^{D27}	H
L _{C572}	R ^{D66}	R ^{D28}	H
L _{C573}	R ^{D66}	R ^{D29}	H
L _{C574}	R ^{D66}	R ^{D30}	H
L _{C575}	R ^{D66}	R ^{D31}	H
L _{C576}	R ^{D66}	R ^{D32}	H
L _{C577}	R ^{D66}	R ^{D33}	H
L _{C578}	R ^{D66}	R ^{D34}	H
L _{C579}	R ^{D66}	R ^{D42}	H
L _{C580}	R ^{D66}	R ^{D68}	H
L _{C581}	R ^{D66}	R ^{D76}	H
L _{C582}	R ^{D68}	R ^{D5}	H
L _{C583}	R ^{D68}	R ^{D6}	H
L _{C584}	R ^{D68}	R ^{D9}	H
L _{C585}	R ^{D68}	R ^{D10}	H
L _{C586}	R ^{D68}	R ^{D12}	H
L _{C587}	R ^{D68}	R ^{D15}	H
L _{C588}	R ^{D68}	R ^{D16}	H
L _{C589}	R ^{D68}	R ^{D17}	H
L _{C590}	R ^{D68}	R ^{D18}	H
L _{C591}	R ^{D68}	R ^{D19}	H
L _{C592}	R ^{D68}	R ^{D20}	H
L _{C593}	R ^{D68}	R ^{D21}	H
L _{C594}	R ^{D68}	R ^{D23}	H
L _{C595}	R ^{D68}	R ^{D24}	H
L _{C596}	R ^{D68}	R ^{D25}	H
L _{C597}	R ^{D68}	R ^{D27}	H
L _{C598}	R ^{D68}	R ^{D28}	H
L _{C599}	R ^{D68}	R ^{D29}	H
L _{C600}	R ^{D68}	R ^{D30}	H
L _{C601}	R ^{D68}	R ^{D31}	H
L _{C602}	R ^{D68}	R ^{D32}	H
L _{C603}	R ^{D68}	R ^{D33}	H
L _{C604}	R ^{D68}	R ^{D34}	H
L _{C605}	R ^{D68}	R ^{D42}	H
L _{C606}	R ^{D68}	R ^{D76}	H
L _{C607}	R ^{D76}	R ^{D5}	H
L _{C608}	R ^{D76}	R ^{D6}	H
L _{C609}	R ^{D76}	R ^{D9}	H
L _{C610}	R ^{D76}	R ^{D10}	H
L _{C611}	R ^{D76}	R ^{D12}	H
L _{C612}	R ^{D76}	R ^{D15}	H
L _{C613}	R ^{D76}	R ^{D16}	H
L _{C614}	R ^{D76}	R ^{D17}	H
L _{C615}	R ^{D76}	R ^{D18}	H
L _{C616}	R ^{D76}	R ^{D19}	H
L _{C617}	R ^{D76}	R ^{D20}	H
L _{C618}	R ^{D76}	R ^{D21}	H
L _{C619}	R ^{D76}	R ^{D23}	H
L _{C620}	R ^{D76}	R ^{D24}	H
L _{C621}	R ^{D76}	R ^{D25}	H
L _{C622}	R ^{D76}	R ^{D27}	H
L _{C623}	R ^{D76}	R ^{D28}	H
L _{C624}	R ^{D76}	R ^{D29}	H
L _{C625}	R ^{D76}	R ^{D30}	H
L _{C626}	R ^{D76}	R ^{D31}	H
L _{C627}	R ^{D76}	R ^{D32}	H
L _{C628}	R ^{D76}	R ^{D33}	H
L _{C629}	R ^{D76}	R ^{D34}	H
L _{C630}	R ^{D76}	R ^{D42}	H
L _{C631}	R ^{D1}	R ^{D1}	R ^{D1}
L _{C632}	R ^{D2}	R ^{D2}	R ^{D1}
L _{C633}	R ^{D3}	R ^{D3}	R ^{D1}
L _{C634}	R ^{D4}	R ^{D4}	R ^{D1}
L _{C635}	R ^{D5}	R ^{D5}	R ^{D1}
L _{C636}	R ^{D6}	R ^{D6}	R ^{D1}
L _{C637}	R ^{D7}	R ^{D7}	R ^{D1}
L _{C638}	R ^{D8}	R ^{D8}	R ^{D1}
L _{C639}	R ^{D9}	R ^{D9}	R ^{D1}
L _{C640}	R ^{D10}	R ^{D10}	R ^{D1}
L _{C641}	R ^{D11}	R ^{D11}	R ^{D1}
L _{C642}	R ^{D12}	R ^{D12}	R ^{D1}
L _{C643}	R ^{D13}	R ^{D13}	R ^{D1}
L _{C644}	R ^{D14}	R ^{D14}	R ^{D1}

-continued

Ligand	R ¹	R ²	R ³
L _{C645}	R ^{D15}	R ^{D15}	R ^{D1}
L _{C646}	R ^{D16}	R ^{D16}	R ^{D1}
L _{C647}	R ^{D17}	R ^{D17}	R ^{D1}
L _{C648}	R ^{D18}	R ^{D18}	R ^{D1}
L _{C649}	R ^{D19}	R ^{D19}	R ^{D1}
L _{C650}	R ^{D20}	R ^{D20}	R ^{D1}
L _{C651}	R ^{D21}	R ^{D21}	R ^{D1}
L _{C652}	R ^{D22}	R ^{D22}	R ^{D1}
L _{C653}	R ^{D23}	R ^{D23}	R ^{D1}
L _{C654}	R ^{D24}	R ^{D24}	R ^{D1}
L _{C655}	R ^{D25}	R ^{D25}	R ^{D1}
L _{C656}	R ^{D26}	R ^{D26}	R ^{D1}
L _{C657}	R ^{D27}	R ^{D27}	R ^{D1}
L _{C658}	R ^{D28}	R ^{D28}	R ^{D1}
L _{C659}	R ^{D29}	R ^{D29}	R ^{D1}
L _{C660}	R ^{D30}	R ^{D30}	R ^{D1}
L _{C661}	R ^{D31}	R ^{D31}	R ^{D1}
L _{C662}	R ^{D32}	R ^{D32}	R ^{D1}
L _{C663}	R ^{D33}	R ^{D33}	R ^{D1}
L _{C664}	R ^{D34}	R ^{D34}	R ^{D1}
L _{C665}	R ^{D35}	R ^{D35}	R ^{D1}
L _{C666}	R ^{D40}	R ^{D40}	R ^{D1}
L _{C667}	R ^{D41}	R ^{D41}	R ^{D1}
L _{C668}	R ^{D42}	R ^{D42}	R ^{D1}
L _{C669}	R ^{D64}	R ^{D64}	R ^{D1}
L _{C670}	R ^{D66}	R ^{D66}	R ^{D1}
L _{C671}	R ^{D68}	R ^{D68}	R ^{D1}
L _{C672}	R ^{D76}	R ^{D76}	R ^{D1}
L _{C673}	R ^{D1}	R ^{D2}	R ^{D1}
L _{C674}	R ^{D1}	R ^{D3}	R ^{D1}
L _{C675}	R ^{D1}	R ^{D4}	R ^{D1}
L _{C676}	R ^{D1}	R ^{D5}	R ^{D1}
L _{C677}	R ^{D1}	R ^{D6}	R ^{D1}
L _{C678}	R ^{D1}	R ^{D7}	R ^{D1}
L _{C679}	R ^{D1}	R ^{D8}	R ^{D1}
L _{C680}	R ^{D1}	R ^{D9}	R ^{D1}
L _{C681}	R ^{D1}	R ^{D10}	R ^{D1}
L _{C682}	R ^{D1}	R ^{D11}	R ^{D1}
L _{C683}	R ^{D1}	R ^{D12}	R ^{D1}
L _{C684}	R ^{D1}	R ^{D13}	R ^{D1}
L _{C685}	R ^{D1}	R ^{D14}	R ^{D1}
L _{C686}	R ^{D1}	R ^{D15}	R ^{D1}
L _{C687}	R ^{D1}	R ^{D16}	R ^{D1}
L _{C688}	R ^{D1}	R ^{D17}	R ^{D1}
L _{C689}	R ^{D1}	R ^{D18}	R ^{D1}
L _{C690}	R ^{D1}	R ^{D19}	R ^{D1}
L _{C691}	R ^{D1}	R ^{D20}	R ^{D1}
L _{C692}	R ^{D1}	R ^{D21}	R ^{D1}
L _{C693}	R ^{D1}	R ^{D22}	R ^{D1}
L _{C694}	R ^{D1}	R ^{D23}	R ^{D1}
L _{C695}	R ^{D1}	R ^{D24}	R ^{D1}
L _{C696}	R ^{D1}	R ^{D25}	R ^{D1}
L _{C697}	R ^{D1}	R ^{D26}	R ^{D1}
L _{C698}	R ^{D1}	R ^{D27}	R ^{D1}
L _{C699}	R ^{D1}	R ^{D28}	R ^{D1}
L _{C700}	R ^{D1}	R ^{D29}	R ^{D1}
L _{C701}	R ^{D1}	R ^{D30}	R ^{D1}
L _{C702}	R ^{D1}	R ^{D31}	R ^{D1}
L _{C703}	R ^{D1}	R ^{D32}	R ^{D1}
L _{C704}	R ^{D1}	R ^{D33}	R ^{D1}
L _{C705}	R ^{D1}	R ^{D34}	R ^{D1}
L _{C706}	R ^{D1}	R ^{D35}	R ^{D1}
L _{C707}	R ^{D1}	R ^{D40}	R ^{D1}
L _{C708}	R ^{D1}	R ^{D41}	R ^{D1}
L _{C709}	R ^{D1}	R ^{D42}	R ^{D1}
L _{C710}	R ^{D1}	R ^{D64}	R ^{D1}
L _{C711}	R ^{D1}	R ^{D66}	R ^{D1}
L _{C712}	R ^{D1}	R ^{D68}	R ^{D1}
L _{C713}	R ^{D1}	R ^{D76}	R ^{D1}
L _{C714}	R ^{D2}	R ^{D1}	R ^{D1}
L _{C715}	R ^{D2}	R ^{D3}	R ^{D1}
L _{C716}	R ^{D2}	R ^{D4}	R ^{D1}
L _{C717}	R ^{D2}	R ^{D5}	R ^{D1}
L _{C718}	R ^{D2}	R ^{D6}	R ^{D1}

-continued

Ligand	R ¹	R ²	R ³
L _{C719}	R ^{D2}	R ^{D7}	R ^{D1}
L _{C720}	R ^{D2}	R ^{D8}	R ^{D1}
L _{C721}	R ^{D2}	R ^{D9}	R ^{D1}
L _{C722}	R ^{D2}	R ^{D10}	R ^{D1}
L _{C723}	R ^{D2}	R ^{D11}	R ^{D1}
L _{C724}	R ^{D2}	R ^{D12}	R ^{D1}
L _{C725}	R ^{D2}	R ^{D13}	R ^{D1}
L _{C726}	R ^{D2}	R ^{D14}	R ^{D1}
L _{C727}	R ^{D2}	R ^{D15}	R ^{D1}
L _{C728}	R ^{D2}	R ^{D16}	R ^{D1}
L _{C729}	R ^{D2}	R ^{D17}	R ^{D1}
L _{C730}	R ^{D2}	R ^{D18}	R ^{D1}
L _{C731}	R ^{D2}	R ^{D19}	R ^{D1}
L _{C732}	R ^{D2}	R ^{D20}	R ^{D1}
L _{C733}	R ^{D2}	R ^{D21}	R ^{D1}
L _{C734}	R ^{D2}	R ^{D22}	R ^{D1}
L _{C735}	R ^{D2}	R ^{D23}	R ^{D1}
L _{C736}	R ^{D2}	R ^{D24}	R ^{D1}
L _{C737}	R ^{D2}	R ^{D25}	R ^{D1}
L _{C738}	R ^{D2}	R ^{D26}	R ^{D1}
L _{C739}	R ^{D2}	R ^{D27}	R ^{D1}
L _{C740}	R ^{D2}	R ^{D28}	R ^{D1}
L _{C741}	R ^{D2}	R ^{D29}	R ^{D1}
L _{C742}	R ^{D2}	R ^{D30}	R ^{D1}
L _{C743}	R ^{D2}	R ^{D31}	R ^{D1}
L _{C744}	R ^{D2}	R ^{D32}	R ^{D1}
L _{C745}	R ^{D2}	R ^{D33}	R ^{D1}
L _{C746}	R ^{D2}	R ^{D34}	R ^{D1}
L _{C747}	R ^{D2}	R ^{D35}	R ^{D1}
L _{C748}	R ^{D2}	R ^{D40}	R ^{D1}
L _{C749}	R ^{D2}	R ^{D41}	R ^{D1}
L _{C750}	R ^{D2}	R ^{D42}	R ^{D1}
L _{C751}	R ^{D2}	R ^{D64}	R ^{D1}
L _{C752}	R ^{D2}	R ^{D66}	R ^{D1}
L _{C753}	R ^{D2}	R ^{D68}	R ^{D1}
L _{C754}	R ^{D2}	R ^{D76}	R ^{D1}
L _{C755}	R ^{D3}	R ^{D4}	R ^{D1}
L _{C756}	R ^{D3}	R ^{D5}	R ^{D1}
L _{C757}	R ^{D3}	R ^{D6}	R ^{D1}
L _{C758}	R ^{D3}	R ^{D7}	R ^{D1}
L _{C759}	R ^{D3}	R ^{D8}	R ^{D1}
L _{C760}	R ^{D3}	R ^{D9}	R ^{D1}
L _{C761}	R ^{D3}	R ^{D10}	R ^{D1}
L _{C762}	R ^{D3}	R ^{D11}	R ^{D1}
L _{C763}	R ^{D3}	R ^{D12}	R ^{D1}
L _{C764}	R ^{D3}	R ^{D13}	R ^{D1}
L _{C765}	R ^{D3}	R ^{D14}	R ^{D1}
L _{C766}	R ^{D3}	R ^{D15}	R ^{D1}
L _{C767}	R ^{D3}	R ^{D16}	R ^{D1}
L _{C768}	R ^{D3}	R ^{D17}	R ^{D1}
L _{C769}	R ^{D3}	R ^{D18}	R ^{D1}
L _{C770}	R ^{D3}	R ^{D19}	R ^{D1}
L _{C771}	R ^{D3}	R ^{D20}	R ^{D1}
L _{C772}	R ^{D3}	R ^{D21}	R ^{D1}
L _{C773}	R ^{D3}	R ^{D22}	R ^{D1}
L _{C774}	R ^{D3}	R ^{D23}	R ^{D1}
L _{C775}	R ^{D3}	R ^{D24}	R ^{D1}
L _{C776}	R ^{D3}	R ^{D25}	R ^{D1}
L _{C777}	R ^{D3}	R ^{D26}	R ^{D1}
L _{C778}	R ^{D3}	R ^{D27}	R ^{D1}
L _{C779}	R ^{D3}	R ^{D28}	R ^{D1}
L _{C780}	R ^{D3}	R ^{D29}	R ^{D1}
L _{C781}	R ^{D3}	R ^{D30}	R ^{D1}
L _{C782}	R ^{D3}	R ^{D31}	R ^{D1}
L _{C783}	R ^{D3}	R ^{D32}	R ^{D1}
L _{C784}	R ^{D3}	R ^{D33}	R ^{D1}
L _{C785}	R ^{D3}	R ^{D34}	R ^{D1}
L _{C786}	R ^{D3}	R ^{D35}	R ^{D1}
L _{C787}	R ^{D3}	R ^{D40}	R ^{D1}
L _{C788}	R ^{D3}	R ^{D41}	R ^{D1}
L _{C789}	R ^{D3}	R ^{D42}	R ^{D1}
L _{C790}	R ^{D3}	R ^{D64}	R ^{D1}
L _{C791}	R ^{D3}	R ^{D66}	R ^{D1}
L _{C792}	R ^{D3}	R ^{D68}	R ^{D1}

-continued

Ligand	R ¹	R ²	R ³
L _{C793}	R ^{D3}	R ^{D76}	R ^{D1}
L _{C794}	R ^{D4}	R ^{D5}	R ^{D1}
L _{C795}	R ^{D4}	R ^{D6}	R ^{D1}
L _{C796}	R ^{D4}	R ^{D7}	R ^{D1}
L _{C797}	R ^{D4}	R ^{D8}	R ^{D1}
L _{C798}	R ^{D4}	R ^{D9}	R ^{D1}
L _{C799}	R ^{D4}	R ^{D10}	R ^{D1}
L _{C800}	R ^{D4}	R ^{D11}	R ^{D1}
L _{C801}	R ^{D4}	R ^{D12}	R ^{D1}
L _{C802}	R ^{D4}	R ^{D13}	R ^{D1}
L _{C803}	R ^{D4}	R ^{D14}	R ^{D1}
L _{C804}	R ^{D4}	R ^{D15}	R ^{D1}
L _{C805}	R ^{D4}	R ^{D16}	R ^{D1}
L _{C806}	R ^{D4}	R ^{D17}	R ^{D1}
L _{C807}	R ^{D4}	R ^{D18}	R ^{D1}
L _{C808}	R ^{D4}	R ^{D19}	R ^{D1}
L _{C809}	R ^{D4}	R ^{D20}	R ^{D1}
L _{C810}	R ^{D4}	R ^{D21}	R ^{D1}
L _{C811}	R ^{D4}	R ^{D22}	R ^{D1}
L _{C812}	R ^{D4}	R ^{D23}	R ^{D1}
L _{C813}	R ^{D4}	R ^{D24}	R ^{D1}
L _{C814}	R ^{D4}	R ^{D25}	R ^{D1}
L _{C815}	R ^{D4}	R ^{D26}	R ^{D1}
L _{C816}	R ^{D4}	R ^{D27}	R ^{D1}
L _{C817}	R ^{D4}	R ^{D28}	R ^{D1}
L _{C818}	R ^{D4}	R ^{D29}	R ^{D1}
L _{C819}	R ^{D4}	R ^{D30}	R ^{D1}
L _{C820}	R ^{D4}	R ^{D31}	R ^{D1}
L _{C821}	R ^{D4}	R ^{D32}	R ^{D1}
L _{C822}	R ^{D4}	R ^{D33}	R ^{D1}
L _{C823}	R ^{D4}	R ^{D34}	R ^{D1}
L _{C824}	R ^{D4}	R ^{D35}	R ^{D1}
L _{C825}	R ^{D4}	R ^{D40}	R ^{D1}
L _{C826}	R ^{D4}	R ^{D41}	R ^{D1}
L _{C827}	R ^{D4}	R ^{D42}	R ^{D1}
L _{C828}	R ^{D4}	R ^{D64}	R ^{D1}
L _{C829}	R ^{D4}	R ^{D66}	R ^{D1}
L _{C830}	R ^{D4}	R ^{D68}	R ^{D1}
L _{C831}	R ^{D4}	R ^{D76}	R ^{D1}
L _{C832}	R ^{D4}	R ^{D1}	R ^{D1}
L _{C833}	R ^{D7}	R ^{D5}	R ^{D1}
L _{C834}	R ^{D7}	R ^{D6}	R ^{D1}
L _{C835}	R ^{D7}	R ^{D8}	R ^{D1}
L _{C836}	R ^{D7}	R ^{D9}	R ^{D1}
L _{C837}	R ^{D7}	R ^{D10}	R ^{D1}
L _{C838}	R ^{D7}	R ^{D11}	R ^{D1}
L _{C839}	R ^{D7}	R ^{D12}	R ^{D1}
L _{C840}	R ^{D7}	R ^{D13}	R ^{D1}
L _{C841}	R ^{D7}	R ^{D14}	R ^{D1}
L _{C842}	R ^{D7}	R ^{D15}	R ^{D1}
L _{C843}	R ^{D7}	R ^{D16}	R ^{D1}
L _{C844}	R ^{D7}	R ^{D17}	R ^{D1}
L _{C845}	R ^{D7}	R ^{D18}	R ^{D1}
L _{C846}	R ^{D7}	R ^{D19}	R ^{D1}
L _{C847}	R ^{D7}	R ^{D20}	R ^{D1}
L _{C848}	R ^{D7}	R ^{D21}	R ^{D1}
L _{C849}	R ^{D7}	R ^{D22}	R ^{D1}
L _{C850}	R ^{D7}	R ^{D23}	R ^{D1}
L _{C851}	R ^{D7}	R ^{D24}	R ^{D1}
L _{C852}	R ^{D7}	R ^{D25}	R ^{D1}
L _{C853}	R ^{D7}	R ^{D26}	R ^{D1}
L _{C854}	R ^{D7}	R ^{D27}	R ^{D1}
L _{C855}	R ^{D7}	R ^{D28}	R ^{D1}
L _{C856}	R ^{D7}	R ^{D29}	R ^{D1}
L _{C857}	R ^{D7}	R ^{D30}	R ^{D1}
L _{C858}	R ^{D7}	R ^{D31}	R ^{D1}
L _{C859}	R ^{D7}	R ^{D32}	R ^{D1}
L _{C860}	R ^{D7}	R ^{D33}	R ^{D1}
L _{C861}	R ^{D7}	R ^{D34}	R ^{D1}
L _{C862}	R ^{D7}	R ^{D35}	R ^{D1}
L _{C863}	R ^{D7}	R ^{D40}	R ^{D1}
L _{C864}	R ^{D7}	R ^{D41}	R ^{D1}
L _{C865}	R ^{D7}	R ^{D42}	R ^{D1}
L _{C866}	R ^{D7}	R ^{D64}	R ^{D1}

-continued

Ligand	R ¹	R ²	R ³
L _{C867}	R ^{D7}	R ^{D66}	R ^{D1}
L _{C868}	R ^{D7}	R ^{D68}	R ^{D1}
L _{C869}	R ^{D7}	R ^{D76}	R ^{D1}
L _{C870}	R ^{D8}	R ^{D5}	R ^{D1}
L _{C871}	R ^{D8}	R ^{D6}	R ^{D1}
L _{C872}	R ^{D8}	R ^{D9}	R ^{D1}
L _{C873}	R ^{D8}	R ^{D10}	R ^{D1}
L _{C874}	R ^{D8}	R ^{D11}	R ^{D1}
L _{C875}	R ^{D8}	R ^{D12}	R ^{D1}
L _{C876}	R ^{D8}	R ^{D13}	R ^{D1}
L _{C877}	R ^{D8}	R ^{D14}	R ^{D1}
L _{C878}	R ^{D8}	R ^{D15}	R ^{D1}
L _{C879}	R ^{D8}	R ^{D16}	R ^{D1}
L _{C880}	R ^{D8}	R ^{D17}	R ^{D1}
L _{C881}	R ^{D8}	R ^{D18}	R ^{D1}
L _{C882}	R ^{D8}	R ^{D19}	R ^{D1}
L _{C883}	R ^{D8}	R ^{D20}	R ^{D1}
L _{C884}	R ^{D8}	R ^{D21}	R ^{D1}
L _{C885}	R ^{D8}	R ^{D22}	R ^{D1}
L _{C886}	R ^{D8}	R ^{D23}	R ^{D1}
L _{C887}	R ^{D8}	R ^{D24}	R ^{D1}
L _{C888}	R ^{D8}	R ^{D25}	R ^{D1}
L _{C889}	R ^{D8}	R ^{D26}	R ^{D1}
L _{C890}	R ^{D8}	R ^{D27}	R ^{D1}
L _{C891}	R ^{D8}	R ^{D28}	R ^{D1}
L _{C892}	R ^{D8}	R ^{D29}	R ^{D1}
L _{C893}	R ^{D8}	R ^{D30}	R ^{D1}
L _{C894}	R ^{D8}	R ^{D31}	R ^{D1}
L _{C895}	R ^{D8}	R ^{D32}	R ^{D1}
L _{C896}	R ^{D8}	R ^{D33}	R ^{D1}
L _{C897}	R ^{D8}	R ^{D34}	R ^{D1}
L _{C898}	R ^{D8}	R ^{D35}	R ^{D1}
L _{C899}	R ^{D8}	R ^{D40}	R ^{D1}
L _{C900}	R ^{D8}	R ^{D41}	R ^{D1}
L _{C901}	R ^{D8}	R ^{D42}	R ^{D1}
L _{C902}	R ^{D8}	R ^{D64}	R ^{D1}
L _{C903}	R ^{D8}	R ^{D66}	R ^{D1}
L _{C904}	R ^{D8}	R ^{D68}	R ^{D1}
L _{C905}	R ^{D8}	R ^{D76}	R ^{D1}
L _{C906}	R ^{D11}	R ^{D5}	R ^{D1}
L _{C907}	R ^{D11}	R ^{D6}	R ^{D1}
L _{C908}	R ^{D11}	R ^{D9}	R ^{D1}
L _{C909}	R ^{D11}	R ^{D10}	R ^{D1}
L _{C910}	R ^{D11}	R ^{D12}	R ^{D1}
L _{C911}	R ^{D11}	R ^{D13}	R ^{D1}
L _{C912}	R ^{D11}	R ^{D14}	R ^{D1}
L _{C913}	R ^{D11}	R ^{D15}	R ^{D1}
L _{C914}	R ^{D11}	R ^{D16}	R ^{D1}
L _{C915}	R ^{D11}	R ^{D17}	R ^{D1}
L _{C916}	R ^{D11}	R ^{D18}	R ^{D1}
L _{C917}	R ^{D11}	R ^{D19}	R ^{D1}
L _{C918}	R ^{D11}	R ^{D20}	R ^{D1}
L _{C919}	R ^{D11}	R ^{D21}	R ^{D1}
L _{C920}	R ^{D11}	R ^{D22}	R ^{D1}
L _{C921}	R ^{D11}	R ^{D23}	R ^{D1}
L _{C922}	R ^{D11}	R ^{D24}	R ^{D1}
L _{C923}	R ^{D11}	R ^{D25}	R ^{D1}
L _{C924}	R ^{D11}	R ^{D26}	R ^{D1}
L _{C925}	R ^{D11}	R ^{D27}	R ^{D1}
L _{C926}	R ^{D11}	R ^{D28}	R ^{D1}
L _{C927}	R ^{D11}	R ^{D29}	R ^{D1}
L _{C928}	R ^{D11}	R ^{D30}	R ^{D1}
L _{C929}	R ^{D11}	R ^{D31}	R ^{D1}
L _{C930}	R ^{D11}	R ^{D32}	R ^{D1}
L _{C931}	R ^{D11}	R ^{D33}	R ^{D1}
L _{C932}	R ^{D11}	R ^{D34}	R ^{D1}
L _{C933}	R ^{D11}	R ^{D35}	R ^{D1}
L _{C934}	R ^{D11}	R ^{D40}	R ^{D1}
L _{C935}	R ^{D11}	R ^{D41}	R ^{D1}
L _{C936}	R ^{D11}	R ^{D42}	R ^{D1}
L _{C937}	R ^{D11}	R ^{D64}	R ^{D1}
L _{C938}	R ^{D11}	R ^{D66}	R ^{D1}
L _{C939}	R ^{D11}	R ^{D68}	R ^{D1}
L _{C940}	R ^{D11}	R ^{D76}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C941}	R ^{D13}	R ^{D5}	R ^{D1}
L _{C942}	R ^{D13}	R ^{D6}	R ^{D1}
L _{C943}	R ^{D13}	R ^{D9}	R ^{D1}
L _{C944}	R ^{D13}	R ^{D10}	R ^{D1}
L _{C945}	R ^{D13}	R ^{D12}	R ^{D1}
L _{C946}	R ^{D13}	R ^{D14}	R ^{D1}
L _{C947}	R ^{D13}	R ^{D15}	R ^{D1}
L _{C948}	R ^{D13}	R ^{D16}	R ^{D1}
L _{C949}	R ^{D13}	R ^{D17}	R ^{D1}
L _{C950}	R ^{D13}	R ^{D18}	R ^{D1}
L _{C951}	R ^{D13}	R ^{D19}	R ^{D1}
L _{C952}	R ^{D13}	R ^{D20}	R ^{D1}
L _{C953}	R ^{D13}	R ^{D21}	R ^{D1}
L _{C954}	R ^{D13}	R ^{D22}	R ^{D1}
L _{C955}	R ^{D13}	R ^{D23}	R ^{D1}
L _{C956}	R ^{D13}	R ^{D24}	R ^{D1}
L _{C957}	R ^{D13}	R ^{D25}	R ^{D1}
L _{C958}	R ^{D13}	R ^{D26}	R ^{D1}
L _{C959}	R ^{D13}	R ^{D27}	R ^{D1}
L _{C960}	R ^{D13}	R ^{D28}	R ^{D1}
L _{C961}	R ^{D13}	R ^{D29}	R ^{D1}
L _{C962}	R ^{D13}	R ^{D30}	R ^{D1}
L _{C963}	R ^{D13}	R ^{D31}	R ^{D1}
L _{C964}	R ^{D13}	R ^{D32}	R ^{D1}
L _{C965}	R ^{D13}	R ^{D33}	R ^{D1}
L _{C966}	R ^{D13}	R ^{D34}	R ^{D1}
L _{C967}	R ^{D13}	R ^{D35}	R ^{D1}
L _{C968}	R ^{D13}	R ^{D40}	R ^{D1}
L _{C969}	R ^{D13}	R ^{D41}	R ^{D1}
L _{C970}	R ^{D13}	R ^{D42}	R ^{D1}
L _{C971}	R ^{D13}	R ^{D64}	R ^{D1}
L _{C972}	R ^{D13}	R ^{D66}	R ^{D1}
L _{C973}	R ^{D13}	R ^{D68}	R ^{D1}
L _{C974}	R ^{D13}	R ^{D76}	R ^{D1}
L _{C975}	R ^{D14}	R ^{D5}	R ^{D1}
L _{C976}	R ^{D14}	R ^{D6}	R ^{D1}
L _{C977}	R ^{D14}	R ^{D9}	R ^{D1}
L _{C978}	R ^{D14}	R ^{D10}	R ^{D1}
L _{C979}	R ^{D14}	R ^{D12}	R ^{D1}
L _{C980}	R ^{D14}	R ^{D15}	R ^{D1}
L _{C981}	R ^{D14}	R ^{D16}	R ^{D1}
L _{C982}	R ^{D14}	R ^{D17}	R ^{D1}
L _{C983}	R ^{D14}	R ^{D18}	R ^{D1}
L _{C984}	R ^{D14}	R ^{D19}	R ^{D1}
L _{C985}	R ^{D14}	R ^{D20}	R ^{D1}
L _{C986}	R ^{D14}	R ^{D21}	R ^{D1}
L _{C987}	R ^{D14}	R ^{D22}	R ^{D1}
L _{C988}	R ^{D14}	R ^{D23}	R ^{D1}
L _{C989}	R ^{D14}	R ^{D24}	R ^{D1}
L _{C990}	R ^{D14}	R ^{D25}	R ^{D1}
L _{C991}	R ^{D14}	R ^{D26}	R ^{D1}
L _{C992}	R ^{D14}	R ^{D27}	R ^{D1}
L _{C993}	R ^{D14}	R ^{D28}	R ^{D1}
L _{C994}	R ^{D14}	R ^{D29}	R ^{D1}
L _{C995}	R ^{D14}	R ^{D30}	R ^{D1}
L _{C996}	R ^{D14}	R ^{D31}	R ^{D1}
L _{C997}	R ^{D14}	R ^{D32}	R ^{D1}
L _{C998}	R ^{D14}	R ^{D33}	R ^{D1}
L _{C999}	R ^{D14}	R ^{D34}	R ^{D1}
L _{C1000}	R ^{D14}	R ^{D35}	R ^{D1}
L _{C1001}	R ^{D14}	R ^{D40}	R ^{D1}
L _{C1002}	R ^{D14}	R ^{D41}	R ^{D1}
L _{C1003}	R ^{D14}	R ^{D42}	R ^{D1}
L _{C1004}	R ^{D14}	R ^{D64}	R ^{D1}
L _{C1005}	R ^{D14}	R ^{D66}	R ^{D1}
L _{C1006}	R ^{D14}	R ^{D68}	R ^{D1}
L _{C1007}	R ^{D14}	R ^{D76}	R ^{D1}
L _{C1008}	R ^{D22}	R ^{D5}	R ^{D1}
L _{C1009}	R ^{D22}	R ^{D6}	R ^{D1}
L _{C1010}	R ^{D22}	R ^{D9}	R ^{D1}
L _{C1011}	R ^{D22}	R ^{D10}	R ^{D1}
L _{C1012}	R ^{D22}	R ^{D12}	R ^{D1}
L _{C1013}	R ^{D22}	R ^{D15}	R ^{D1}
L _{C1014}	R ^{D22}	R ^{D16}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C1015}	R ^{D22}	R ^{D17}	R ^{D1}
L _{C1016}	R ^{D22}	R ^{D18}	R ^{D1}
L _{C1017}	R ^{D22}	R ^{D19}	R ^{D1}
L _{C1018}	R ^{D22}	R ^{D20}	R ^{D1}
L _{C1019}	R ^{D22}	R ^{D21}	R ^{D1}
L _{C1020}	R ^{D22}	R ^{D23}	R ^{D1}
L _{C1021}	R ^{D22}	R ^{D24}	R ^{D1}
L _{C1022}	R ^{D22}	R ^{D25}	R ^{D1}
L _{C1023}	R ^{D22}	R ^{D26}	R ^{D1}
L _{C1024}	R ^{D22}	R ^{D27}	R ^{D1}
L _{C1025}	R ^{D22}	R ^{D28}	R ^{D1}
L _{C1026}	R ^{D22}	R ^{D29}	R ^{D1}
L _{C1027}	R ^{D22}	R ^{D30}	R ^{D1}
L _{C1028}	R ^{D22}	R ^{D31}	R ^{D1}
L _{C1029}	R ^{D22}	R ^{D32}	R ^{D1}
L _{C1030}	R ^{D22}	R ^{D33}	R ^{D1}
L _{C1031}	R ^{D22}	R ^{D34}	R ^{D1}
L _{C1032}	R ^{D22}	R ^{D35}	R ^{D1}
L _{C1033}	R ^{D22}	R ^{D40}	R ^{D1}
L _{C1034}	R ^{D22}	R ^{D41}	R ^{D1}
L _{C1035}	R ^{D22}	R ^{D42}	R ^{D1}
L _{C1036}	R ^{D22}	R ^{D64}	R ^{D1}
L _{C1037}	R ^{D22}	R ^{D66}	R ^{D1}
L _{C1038}	R ^{D22}	R ^{D68}	R ^{D1}
L _{C1039}	R ^{D22}	R ^{D76}	R ^{D1}
L _{C1040}	R ^{D26}	R ^{D5}	R ^{D1}
L _{C1041}	R ^{D26}	R ^{D6}	R ^{D1}
L _{C1042}	R ^{D26}	R ^{D9}	R ^{D1}
L _{C1043}	R ^{D26}	R ^{D10}	R ^{D1}
L _{C1044}	R ^{D26}	R ^{D12}	R ^{D1}
L _{C1045}	R ^{D26}	R ^{D15}	R ^{D1}
L _{C1046}	R ^{D26}	R ^{D16}	R ^{D1}
L _{C1047}	R ^{D26}	R ^{D17}	R ^{D1}
L _{C1048}	R ^{D26}	R ^{D18}	R ^{D1}
L _{C1049}	R ^{D26}	R ^{D19}	R ^{D1}
L _{C1050}	R ^{D26}	R ^{D20}	R ^{D1}
L _{C1051}	R ^{D26}	R ^{D21}	R ^{D1}
L _{C1052}	R ^{D26}	R ^{D23}	R ^{D1}
L _{C1053}	R ^{D26}	R ^{D24}	R ^{D1}
L _{C1054}	R ^{D26}	R ^{D25}	R ^{D1}
L _{C1055}	R ^{D26}	R ^{D27}	R ^{D1}
L _{C1056}	R ^{D26}	R ^{D28}	R ^{D1}
L _{C1057}	R ^{D26}	R ^{D29}	R ^{D1}
L _{C1058}	R ^{D26}	R ^{D30}	R ^{D1}
L _{C1059}	R ^{D26}	R ^{D31}	R ^{D1}
L _{C1060}	R ^{D26}	R ^{D32}	R ^{D1}
L _{C1061}	R ^{D26}	R ^{D33}	R ^{D1}
L _{C1062}	R ^{D26}	R ^{D34}	R ^{D1}
L _{C1063}	R ^{D26}	R ^{D35}	R ^{D1}
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L _{C1065}	R ^{D26}	R ^{D41}	R ^{D1}
L _{C1066}	R ^{D26}	R ^{D42}	R ^{D1}
L _{C1067}	R ^{D26}	R ^{D64}	R ^{D1}
L _{C1068}	R ^{D26}	R ^{D66}	R ^{D1}
L _{C1069}	R ^{D26}	R ^{D68}	R ^{D1}
L _{C1070}	R ^{D26}	R ^{D76}	R ^{D1}
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L _{C1072}	R ^{D35}	R ^{D6}	R ^{D1}
L _{C1073}	R ^{D35}	R ^{D9}	R ^{D1}
L _{C1074}	R ^{D35}	R ^{D10}	R ^{D1}
L _{C1075}	R ^{D35}	R ^{D12}	R ^{D1}
L _{C1076}	R ^{D35}	R ^{D15}	R ^{D1}
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L _{C1086}	R ^{D35}	R ^{D27}	R ^{D1}
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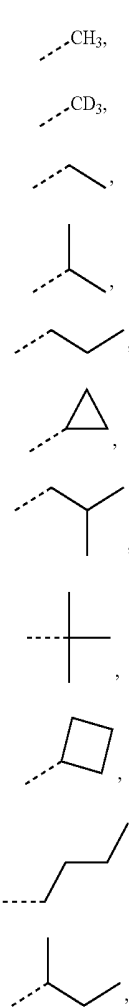
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L _{C1094}	R ^{D35}	R ^{D40}	R ^{D1}
L _{C1095}	R ^{D35}	R ^{D41}	R ^{D1}
L _{C1096}	R ^{D35}	R ^{D42}	R ^{D1}
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L _{C1098}	R ^{D35}	R ^{D66}	R ^{D1}
L _{C1099}	R ^{D35}	R ^{D68}	R ^{D1}
L _{C1100}	R ^{D35}	R ^{D76}	R ^{D1}
L _{C1101}	R ^{D40}	R ^{D5}	R ^{D1}
L _{C1102}	R ^{D40}	R ^{D6}	R ^{D1}
L _{C1103}	R ^{D40}	R ^{D9}	R ^{D1}
L _{C1104}	R ^{D40}	R ^{D10}	R ^{D1}
L _{C1105}	R ^{D40}	R ^{D12}	R ^{D1}
L _{C1106}	R ^{D40}	R ^{D15}	R ^{D1}
L _{C1107}	R ^{D40}	R ^{D16}	R ^{D1}
L _{C1108}	R ^{D40}	R ^{D17}	R ^{D1}
L _{C1109}	R ^{D40}	R ^{D18}	R ^{D1}
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L _{C1111}	R ^{D40}	R ^{D20}	R ^{D1}
L _{C1112}	R ^{D40}	R ^{D21}	R ^{D1}
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L _{C1114}	R ^{D40}	R ^{D24}	R ^{D1}
L _{C1115}	R ^{D40}	R ^{D25}	R ^{D1}
L _{C1116}	R ^{D40}	R ^{D27}	R ^{D1}
L _{C1117}	R ^{D40}	R ^{D28}	R ^{D1}
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L _{C1125}	R ^{D40}	R ^{D42}	R ^{D1}
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L _{C1128}	R ^{D40}	R ^{D68}	R ^{D1}
L _{C1129}	R ^{D40}	R ^{D76}	R ^{D1}
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L _{C1131}	R ^{D41}	R ^{D6}	R ^{D1}
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L _{C1139}	R ^{D41}	R ^{D19}	R ^{D1}
L _{C1140}	R ^{D41}	R ^{D20}	R ^{D1}
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L _{C1142}	R ^{D41}	R ^{D23}	R ^{D1}
L _{C1143}	R ^{D41}	R ^{D24}	R ^{D1}
L _{C1144}	R ^{D41}	R ^{D25}	R ^{D1}
L _{C1145}	R ^{D41}	R ^{D27}	R ^{D1}
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L _{C1147}	R ^{D41}	R ^{D29}	R ^{D1}
L _{C1148}	R ^{D41}	R ^{D30}	R ^{D1}
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L _{C1154}	R ^{D41}	R ^{D64}	R ^{D1}
L _{C1155}	R ^{D41}	R ^{D66}	R ^{D1}
L _{C1156}	R ^{D41}	R ^{D68}	R ^{D1}
L _{C1157}	R ^{D41}	R ^{D76}	R ^{D1}
L _{C1158}	R ^{D64}	R ^{D5}	R ^{D1}
L _{C1159}	R ^{D64}	R ^{D6}	R ^{D1}
L _{C1160}	R ^{D64}	R ^{D9}	R ^{D1}
L _{C1161}	R ^{D64}	R ^{D10}	R ^{D1}
L _{C1162}	R ^{D64}	R ^{D12}	R ^{D1}

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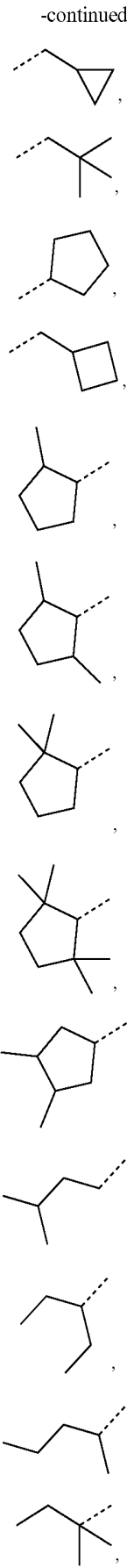
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L _{C1165}	R ^{D64}	R ^{D17}	R ^{D1}
L _{C1166}	R ^{D64}	R ^{D18}	R ^{D1}
L _{C1167}	R ^{D64}	R ^{D19}	R ^{D1}
L _{C1168}	R ^{D64}	R ^{D20}	R ^{D1}
L _{C1169}	R ^{D64}	R ^{D21}	R ^{D1}
L _{C1170}	R ^{D64}	R ^{D23}	R ^{D1}
L _{C1171}	R ^{D64}	R ^{D24}	R ^{D1}
L _{C1172}	R ^{D64}	R ^{D25}	R ^{D1}
L _{C1173}	R ^{D64}	R ^{D27}	R ^{D1}
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L _{C1176}	R ^{D64}	R ^{D30}	R ^{D1}
L _{C1177}	R ^{D64}	R ^{D31}	R ^{D1}
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L _{C1179}	R ^{D64}	R ^{D33}	R ^{D1}
L _{C1180}	R ^{D64}	R ^{D34}	R ^{D1}
L _{C1181}	R ^{D64}	R ^{D42}	R ^{D1}
L _{C1182}	R ^{D64}	R ^{D64}	R ^{D1}
L _{C1183}	R ^{D64}	R ^{D66}	R ^{D1}
L _{C1184}	R ^{D64}	R ^{D68}	R ^{D1}
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L _{C1193}	R ^{D66}	R ^{D17}	R ^{D1}
L _{C1194}	R ^{D66}	R ^{D18}	R ^{D1}
L _{C1195}	R ^{D66}	R ^{D19}	R ^{D1}
L _{C1196}	R ^{D66}	R ^{D20}	R ^{D1}
L _{C1197}	R ^{D66}	R ^{D21}	R ^{D1}
L _{C1198}	R ^{D66}	R ^{D23}	R ^{D1}
L _{C1199}	R ^{D66}	R ^{D24}	R ^{D1}
L _{C1200}	R ^{D66}	R ^{D25}	R ^{D1}
L _{C1201}	R ^{D66}	R ^{D27}	R ^{D1}
L _{C1202}	R ^{D66}	R ^{D28}	R ^{D1}
L _{C1203}	R ^{D66}	R ^{D29}	R ^{D1}
L _{C1204}	R ^{D66}	R ^{D30}	R ^{D1}
L _{C1205}	R ^{D66}	R ^{D31}	R ^{D1}
L _{C1206}	R ^{D66}	R ^{D32}	R ^{D1}
L _{C1207}	R ^{D66}	R ^{D33}	R ^{D1}
L _{C1208}	R ^{D66}	R ^{D34}	R ^{D1}
L _{C1209}	R ^{D66}	R ^{D42}	R ^{D1}
L _{C1210}	R ^{D66}	R ^{D68}	R ^{D1}
L _{C1211}	R ^{D68}	R ^{D76}	R ^{D1}
L _{C1212}	R ^{D68}	R ^{D5}	R ^{D1}
L _{C1213}	R ^{D68}	R ^{D6}	R ^{D1}
L _{C1214}	R ^{D68}	R ^{D9}	R ^{D1}
L _{C1215}	R ^{D68}	R ^{D10}	R ^{D1}
L _{C1216}	R ^{D68}	R ^{D12}	R ^{D1}
L _{C1217}	R ^{D68}	R ^{D15}	R ^{D1}
L _{C1218}	R ^{D68}	R ^{D16}	R ^{D1}
L _{C1219}	R ^{D68}	R ^{D17}	R ^{D1}
L _{C1220}	R ^{D68}	R ^{D18}	R ^{D1}
L _{C1221}	R ^{D68}	R ^{D19}	R ^{D1}
L _{C1222}	R ^{D68}	R ^{D20}	R ^{D1}
L _{C1223}	R ^{D68}	R ^{D21}	R ^{D1}
L _{C1224}	R ^{D68}	R ^{D23}	R ^{D1}
L _{C1225}	R ^{D68}	R ^{D24}	R ^{D1}
L _{C1226}	R ^{D68}	R ^{D25}	R ^{D1}
L _{C1227}	R ^{D68}	R ^{D27}	R ^{D1}
L _{C1228}	R ^{D68}	R ^{D28}	R ^{D1}
L _{C1229}	R ^{D68}	R ^{D29}	R ^{D1}
L _{C1230}	R ^{D68}	R ^{D30}	R ^{D1}
L _{C1231}	R ^{D68}	R ^{D31}	R ^{D1}
L _{C1232}	R ^{D68}	R ^{D32}	R ^{D1}
L _{C1233}	R ^{D68}	R ^{D33}	R ^{D1}
L _{C1234}	R ^{D68}	R ^{D34}	R ^{D1}
L _{C1235}	R ^{D68}	R ^{D42}	R ^{D1}
L _{C1236}	R ^{D68}	R ^{D76}	R ^{D1}

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Ligand	R ¹	R ²	R ³
L _{C1237}	R ^{D76}	R ^{D5}	R ^{D1}
L _{C1238}	R ^{D76}	R ^{D6}	R ^{D1}
L _{C1239}	R ^{D76}	R ^{D9}	R ^{D1}
L _{C1240}	R ^{D76}	R ^{D10}	R ^{D1}
L _{C1241}	R ^{D76}	R ^{D12}	R ^{D1}
L _{C1242}	R ^{D76}	R ^{D15}	R ^{D1}
L _{C1243}	R ^{D76}	R ^{D16}	R ^{D1}
L _{C1244}	R ^{D76}	R ^{D17}	R ^{D1}
L _{C1245}	R ^{D76}	R ^{D18}	R ^{D1}
L _{C1246}	R ^{D76}	R ^{D19}	R ^{D1}
L _{C1247}	R ^{D76}	R ^{D20}	R ^{D1}
L _{C1248}	R ^{D76}	R ^{D21}	R ^{D1}
L _{C1249}	R ^{D76}	R ^{D23}	R ^{D1}
L _{C1250}	R ^{D76}	R ^{D24}	R ^{D1}
L _{C1251}	R ^{D76}	R ^{D25}	R ^{D1}
L _{C1252}	R ^{D76}	R ^{D27}	R ^{D1}
L _{C1253}	R ^{D76}	R ^{D28}	R ^{D1}
L _{C1254}	R ^{D76}	R ^{D29}	R ^{D1}
L _{C1255}	R ^{D76}	R ^{D30}	R ^{D1}
L _{C1256}	R ^{D76}	R ^{D31}	R ^{D1}
L _{C1257}	R ^{D76}	R ^{D32}	R ^{D1}
L _{C1258}	R ^{D76}	R ^{D33}	R ^{D1}
L _{C1259}	R ^{D76}	R ^{D34}	R ^{D1}
L _{C1260}	R ^{D76}	R ^{D42}	R ^{D1}

wherein R^{D1} to R^{D81} has the following structures:

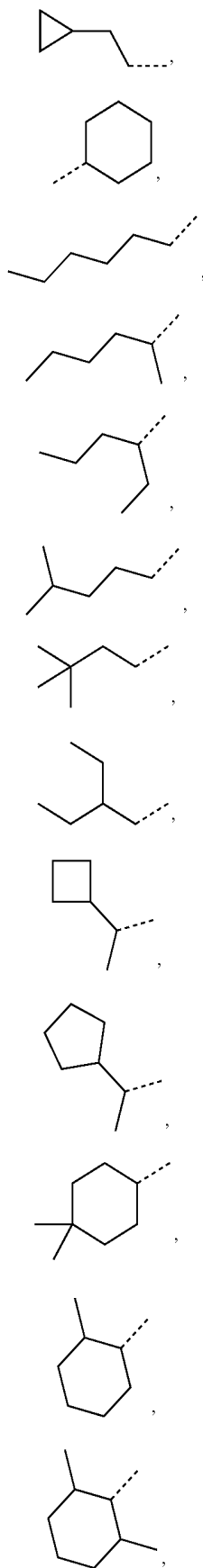


R^{D1}
R^{D2}
R^{D3}
R^{D4}
R^{D5}
R^{D6}
R^{D7}
R^{D8}
R^{D9}
R^{D10}
R^{D11}

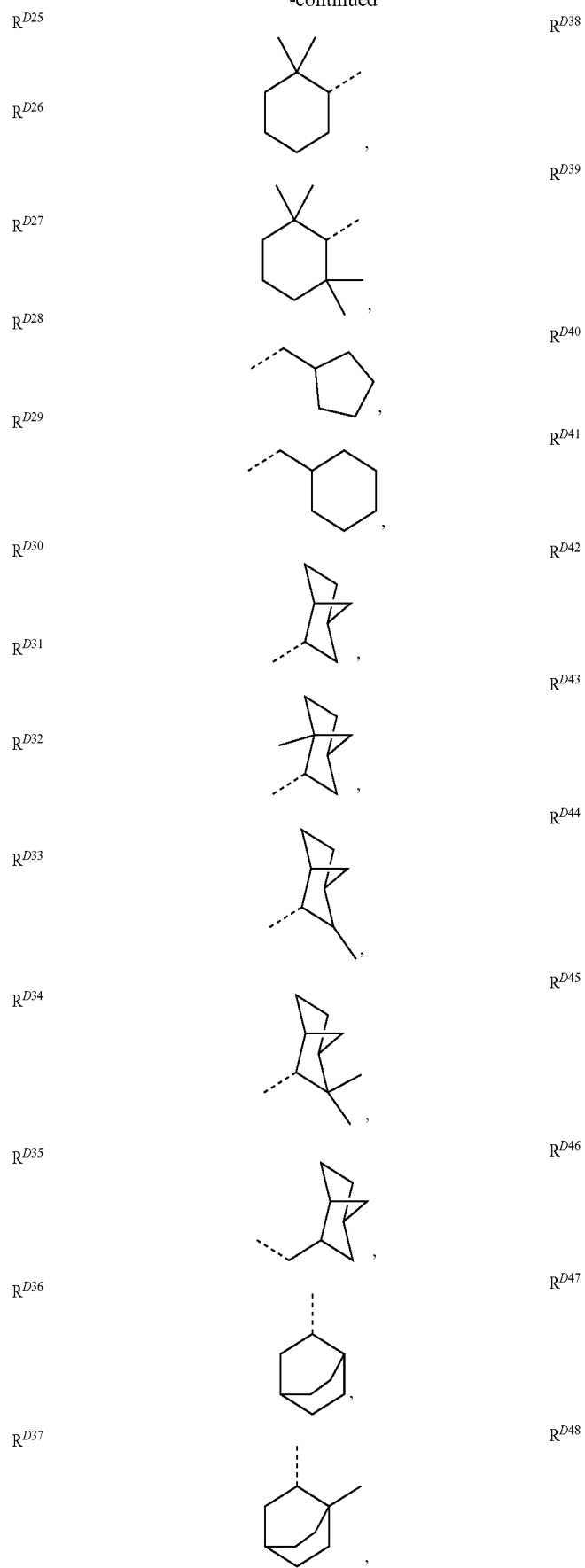


R^{D12}
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R^{D14}
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R^{D24}

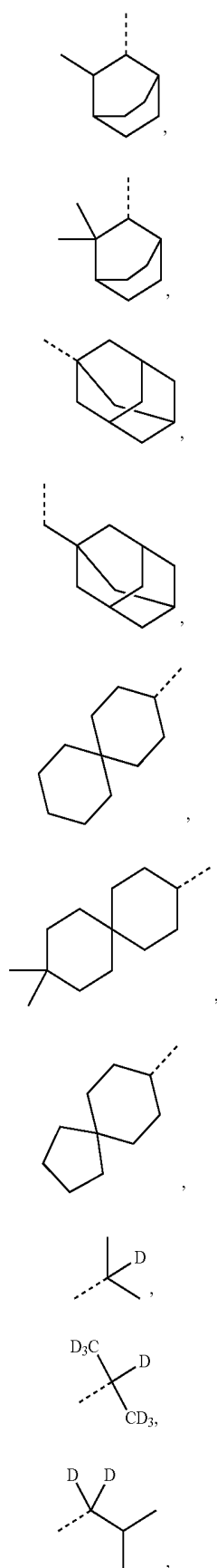
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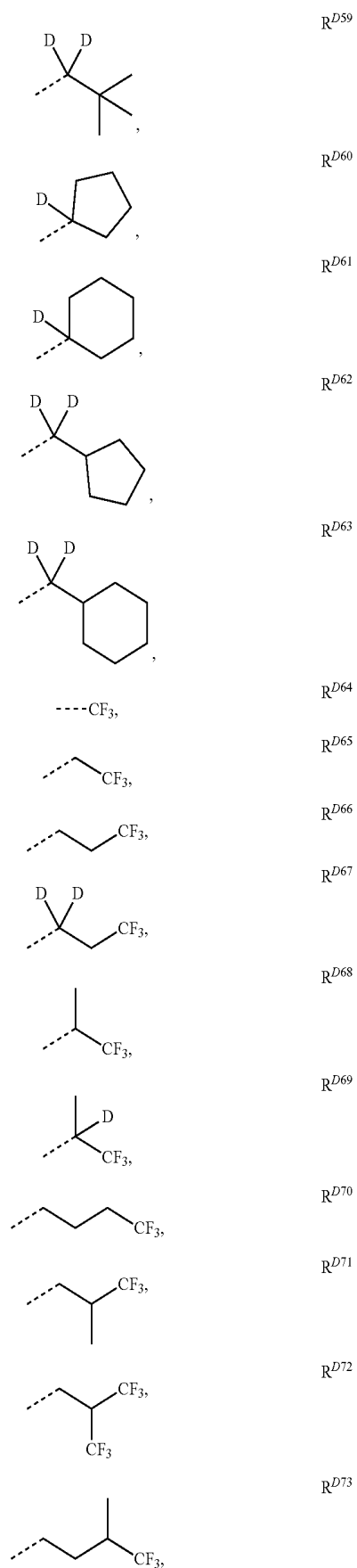
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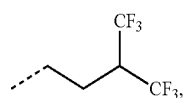
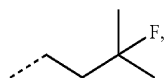
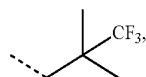
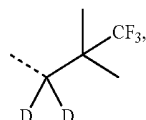
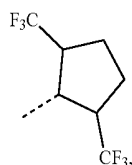
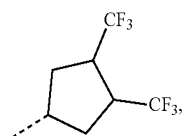
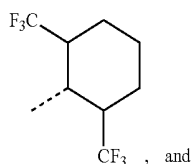
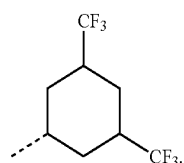
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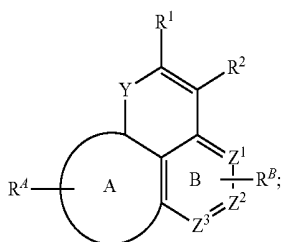
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 R^{D74}  R^{D75}  R^{D76}  R^{D77}  R^{D78}  R^{D79}  R^{D80}  R^{D81}

15. An organic light emitting device (OLED) comprising:
an anode;
a cathode; and an organic layer, disposed between the anode and the cathode, comprising a compound comprising:
a first ligand L^A of Formula I



wherein,

Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

Z^1 , Z^2 , and Z^3 are each independently selected from the group comprising C and N;

Y is selected from the group consisting of O, S, Se, NR^3 , CRR' , $SiRR'$, $GeRR'$, and a single bond;

a metal M forms a direct bond to Ring A or Ring B; M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au;

R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution;

R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl, cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

the ligand L^A is optionally linked with other ligands to form a tridentate ligand or a ligand with a maximum possible denticity to which M can coordinate;

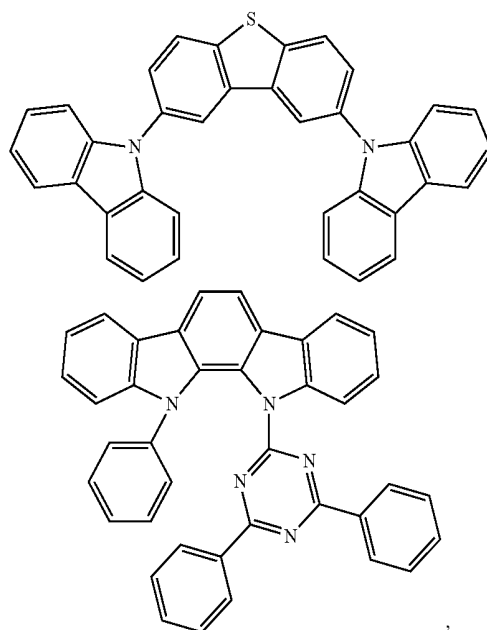
any two substituents may be joined or fused together to form a ring, provided that R^1 and R^2 are not joined to form a 6-membered aromatic ring when Y is a single bond; and

M is optionally coordinated to other ligands.

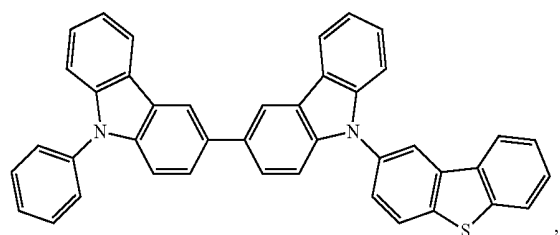
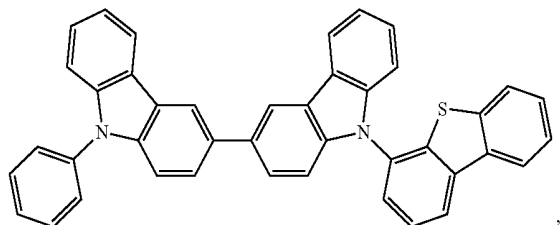
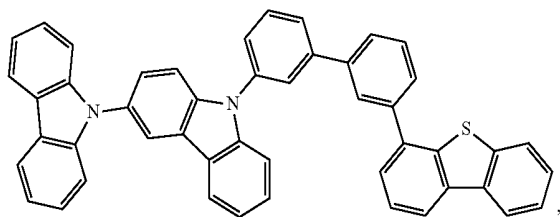
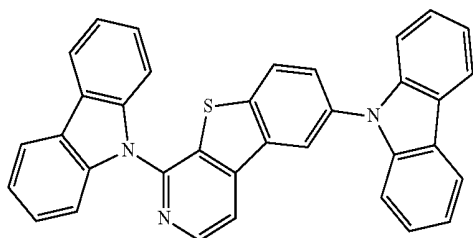
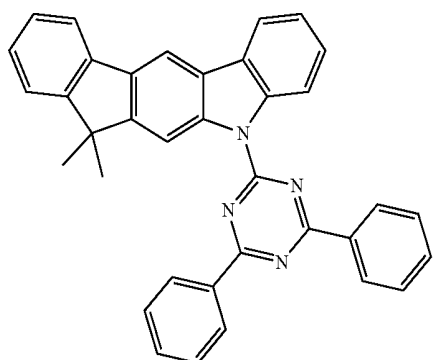
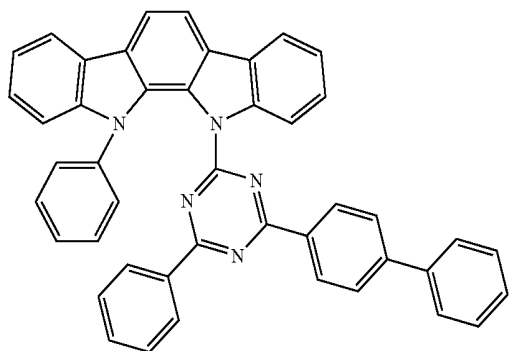
16. The OLED of claim 15, wherein the organic layer is an emissive layer and the compound is an emissive dopant or a non-emissive dopant.

17. The OLED of claim 15, wherein the organic layer further comprises a host, wherein host comprises at least one chemical group selected from the group consisting of metal complex, triphenylene, carbazole, dibenzothiophene, dibenzofuran, dibenzoselenophene, azatriphenylene, azacarbazole, aza-dibenzothiophene, aza-dibenzofuran, and aza-dibenzoselenophene.

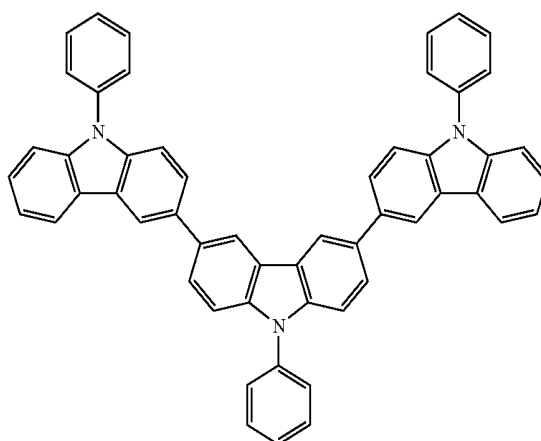
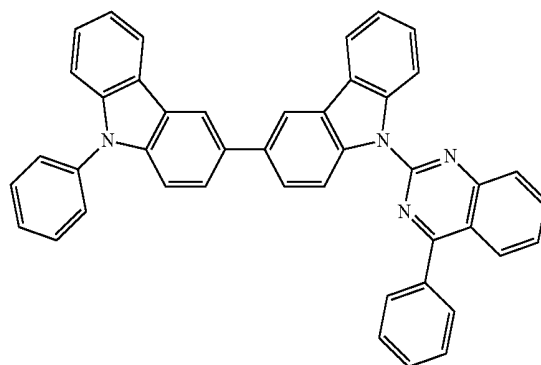
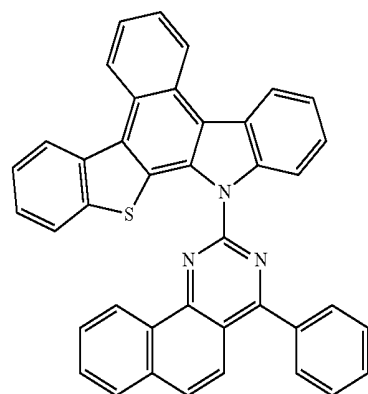
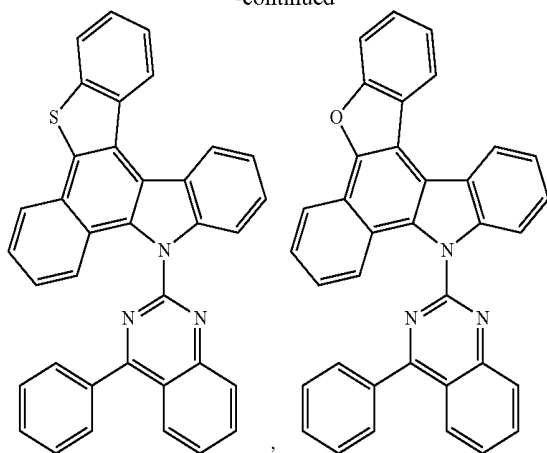
18. The OLED of claim 15, wherein the organic layer further comprises a host, wherein the host is selected from the group consisting of:



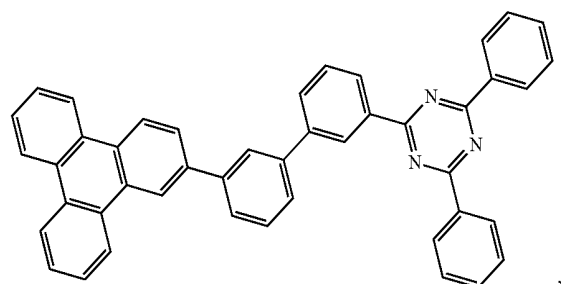
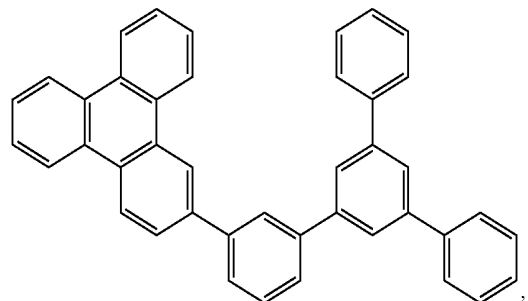
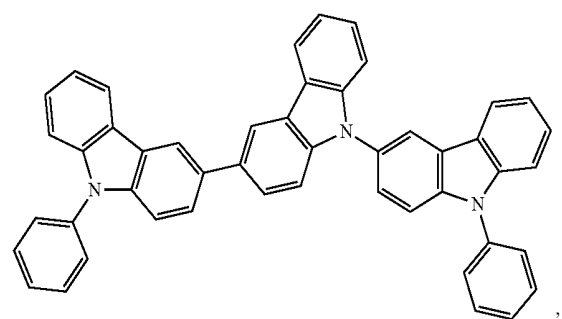
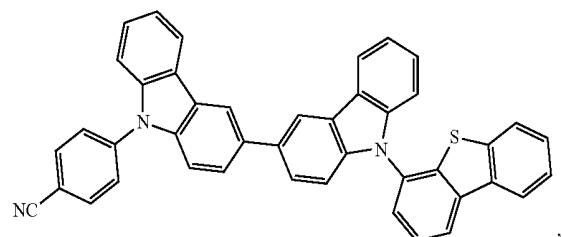
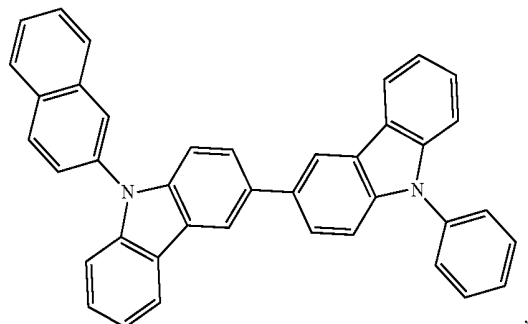
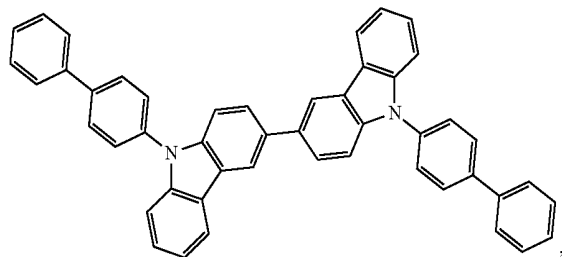
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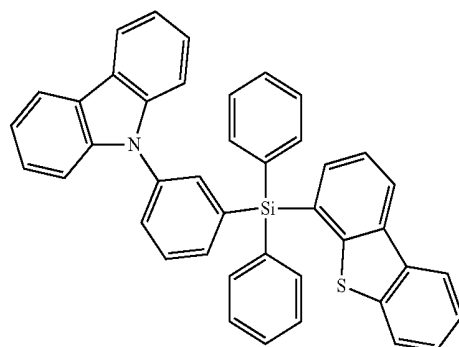
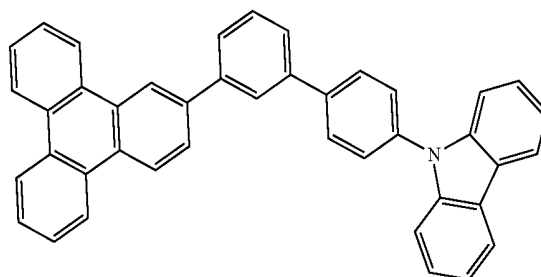
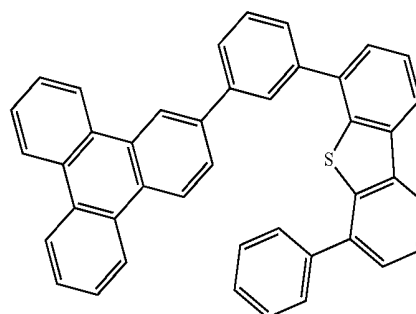
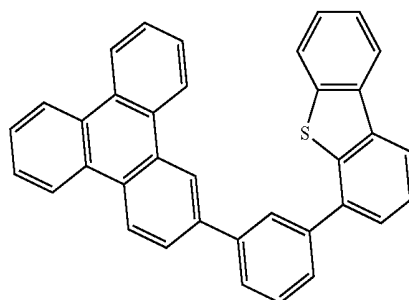
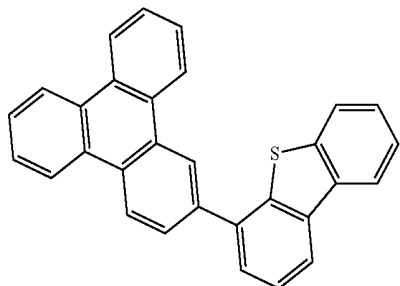
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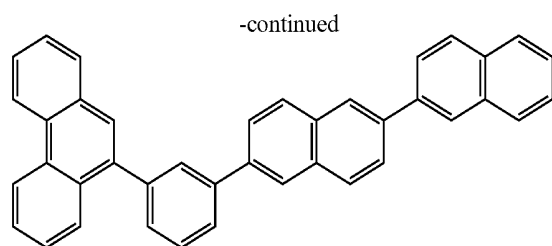


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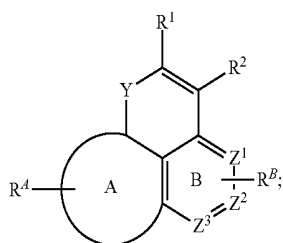




and combinations thereof.

19. A consumer product comprising an organic light-emitting device (OLED) comprising:

- an anode;
- a cathode; and
- an organic layer, disposed between the anode and the cathode, comprising a compound comprising:
a first ligand L^A of Formula I



wherein,

Ring A is a 5-membered or 6-membered carbocyclic or heterocyclic ring;

Z^1 , Z^2 , and Z^3 are each independently selected from the group comprising C and N;

Y is selected from the group consisting of O, S, Se, NR^3 , CRR' , $SiRR'$, $GeRR'$, and a single bond;

a metal M forms a direct bond to Ring A or Ring B; M is selected from the group consisting of Os, Ir, Pd, Pt, Cu, and Au;

R^A and R^B each independently represents mono to a maximum possible number of substitutions, or no substitution;

R^A , R^B , R^1 , R^2 , R^3 , R, and R' are each independently a hydrogen or a substituent selected from the group consisting of deuterium, halide, alkyl, cycloalkyl, heteroalkyl, arylalkyl, alkoxy, aryloxy, amino, silyl, alkenyl, cycloalkenyl, heteroalkenyl, alkynyl, aryl, heteroaryl, acyl, carboxylic acid, ether, ester, nitrile, isonitrile, sulfanyl, sulfinyl, sulfonyl, phosphino, and combinations thereof;

one of R^A and R^B is a 5-membered or 6-membered aromatic ring that is bonded to M;

the ligand L_A is optionally linked with other ligands to form a tridentate ligand or a ligand with a maximum possible denticity to which M can coordinate;

any two substituents may be joined or fused together to form a ring, provided that R^1 and R^2 are not joined to form a 6-membered aromatic ring when Y is a single bond; and

M is optionally coordinated to other ligands.

20. A formulation comprising the compound of claim 1.

* * * * *

专利名称(译)	有机电致发光材料和器件		
公开(公告)号	US20190252627A1	公开(公告)日	2019-08-15
申请号	US16/243655	申请日	2019-01-09
[标]申请(专利权)人(译)	环球展览公司		
申请(专利权)人(译)	通用显示器公司		
当前申请(专利权)人(译)	通用显示器公司		
[标]发明人	JOSEPH SCOTT BOUDREAULT PIERRE LUC T		
发明人	JOSEPH, SCOTT BOUDREAULT, PIERRE-LUC T.		
IPC分类号	H01L51/00 C07F15/00 C09K11/06		
CPC分类号	H01L51/0085 C07F15/0033 C09K11/06 H01L51/5012 H01L51/5072 H01L51/5096 H01L51/5004 H01L2251/552 H01L51/5088 H01L51/5056 C09K2211/185		
优先权	62/628423 2018-02-09 US		
外部链接	Espacenet USPTO		

摘要(译)

包含式I的第一配体L A 的化合物 被披露。

