

Yellow/orange emissive heavy-metal complexes as phosphorescent organic light-emitting devices

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Very High Efficiency Orange-Red Light-Emitting Devices with Low Roll-Off at High Luminance Based on an Ideal Host-Guest System Consisting of Two Novel Phosphorescent Iridium Complexes with Bipolar Transport. <i>Advanced Functional Materials</i> , 2014, 24, 7420-7426.	7.8	100
2	Bifunctional organic materials for OLEDs based on Tröger's base: Subtle structural changes and significant differences in electroluminescence. <i>Organic Electronics</i> , 2014, 15, 3766-3772.	1.4	22
4	Solution-Processed Phosphorescent Organic Light-Emitting Diodes with Ultralow Driving Voltage and Very High Power Efficiency. <i>Scientific Reports</i> , 2015, 5, 12487.	1.6	122
5	Pd-Catalyzed Functionalization of the Thenoyltrifluoroacetone Coligands by Aromatic Dyes in Bis(cyclometallated) Ir(III) Complexes: From Phosphorescence to Fluorescence? <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2956-2964.	1.0	11
6	Design, Synthesis, and Applications of Highly Phosphorescent Cyclometalated Platinum Complexes. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 1210-1245.	1.3	129
7	Yellow Organic Light-Emitting Diodes from Heteroleptic Iridium(III) Complexes with Avobenzene Ligands as Dopants. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5571-5576.	1.0	1
8	Simple structured hybrid WOLEDs based on incomplete energy transfer mechanism: from blue exciplex to orange dopant. <i>Scientific Reports</i> , 2015, 5, 10234.	1.6	62
9	High efficient OLEDs based on novel Re(I) complexes with phenanthroimidazole derivatives. <i>Optical Materials</i> , 2015, 47, 173-179.	1.7	13
10	High-Performance Hybrid White Organic Light-Emitting Diodes Utilizing a Mixed Interlayer as the Universal Carrier Switch. <i>Chinese Physics Letters</i> , 2015, 32, 107805.	1.3	1
11	Highly efficient, little efficiency roll-off orange-red electrophosphorescent devices based on a bipolar iridium complex. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1452-1456.	2.7	19
12	Luminescent Pt(II) complexes bearing dual isoquinolinyl pyrazolates: fundamentals and applications. <i>Dalton Transactions</i> , 2015, 44, 8552-8563.	1.6	44
13	Enhancing the electroluminescence performances of novel platinum(II) polymetallayne-based phosphorescent polymers through employing functionalized Ir(III) phosphorescent units and facilitating triplet energy transfer. <i>RSC Advances</i> , 2015, 5, 12100-12110.	1.7	11
14	Approaches for fabricating high efficiency organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2974-3002.	2.7	524
15	Recent Advances in Solution-Processable Dendrimers for Highly Efficient Phosphorescent Organic Light-Emitting Diodes (PHOLEDs). <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 394-429.	1.3	105
16	Formylated chloro-bridged iridium(III) dimers as OLED materials: opening up new possibilities. <i>Dalton Transactions</i> , 2015, 44, 8419-8432.	1.6	39
17	New deep-red heteroleptic iridium complex with 3-hexylthiophene for solution-processed organic light-emitting diodes emitting saturated red and high CRI white colors. <i>Organic Electronics</i> , 2015, 21, 1-8.	1.4	46
18	Functionalization of phosphorescent emitters and their host materials by main-group elements for phosphorescent organic light-emitting devices. <i>Chemical Society Reviews</i> , 2015, 44, 8484-8575.	18.7	752
19	Cost-effective synthesis of 1±-carboline/pyridine hybrid bipolar host materials with improved electron-transport ability for efficient blue phosphorescent OLEDs. <i>RSC Advances</i> , 2015, 5, 65481-65486.	1.7	12

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20	<i>o</i> -Carboranyl-Phosphine as a New Class of Strong-Field Ancillary Ligand in Cyclometalated Iridium(III) Complexes: Toward Blue Phosphorescence. <i>Organometallics</i> , 2015, 34, 3455-3458.	1.1	38
21	A versatile thermally activated delayed fluorescence emitter for both highly efficient doped and non-doped organic light emitting devices. <i>Chemical Communications</i> , 2015, 51, 13662-13665.	2.2	297
22	Iridium Cyclometalates with Tethered <i>o</i> -Carboranes: Impact of Restricted Rotation of <i>o</i> -Carborane on Phosphorescence Efficiency. <i>Journal of the American Chemical Society</i> , 2015, 137, 8018-8021.	6.6	103
23	Benzobisoxazole-based electron transporting materials with high T_{g} and ambipolar property: high efficiency deep-red phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7589-7596.	2.7	25
24	Strongly Phosphorescent Transition-Metal Complexes with N-Heterocyclic Carbene Ligands as Cellular Probes. <i>Structure and Bonding</i> , 2015, , 181-203.	1.0	5
25	Progress in small-molecule luminescent materials for organic light-emitting diodes. <i>Science China Chemistry</i> , 2015, 58, 907-915.	4.2	98
26	Novel 1,8-naphthalimide derivatives for standard-red organic light-emitting device applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5259-5267.	2.7	29
27	Phosphorescent Cationic Au_4Ag_2 Alkynyl Cluster Complexes for Efficient Solution-Processed Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2015, 25, 3033-3042.	7.8	63
28	Tunable emission in lanthanide coordination polymer gels based on a rationally designed blue emissive gelator. <i>Chemical Communications</i> , 2015, 51, 9876-9879.	2.2	102
29	Design and Synthesis of Pyrimidine-Based Iridium(III) Complexes with Horizontal Orientation for Orange and White Phosphorescent OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11007-11014.	4.0	83
30	Color tunable and near white-light emission of two solvent-induced 2D lead(<i>ii</i>) coordination networks based on a rigid ligand 1-tetrazole-4-imidazole-benzene. <i>Dalton Transactions</i> , 2015, 44, 10089-10096.	1.6	31
31	Highly-efficient hybrid white organic light-emitting diodes based on a high radiative exciton ratio deep-blue emitter with improved concentration of phosphorescent dopant. <i>RSC Advances</i> , 2015, 5, 32298-32306.	1.7	33
32	High efficiency and stable-yellow phosphorescence from OLEDs with a novel fluorinated heteroleptic iridium complex. <i>Optical Materials</i> , 2015, 49, 286-291.	1.7	8
33	Efficient binary white light-emitting polymers grafted with iridium complexes as side groups. <i>RSC Advances</i> , 2015, 5, 89888-89894.	1.7	6
34	Highly efficient yellow phosphorescent organic light-emitting diodes with novel phosphine oxide-based bipolar host materials. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11540-11547.	2.7	14
35	Efficient saturated red electrophosphorescence by using solution-processed 1-phenylisoquinoline-based iridium phosphors with peripheral functional encapsulation. <i>Organic Electronics</i> , 2015, 26, 400-407.	1.4	20
36	Synthesis and photoelectric properties of a solution-processable yellow-emitting iridium(<i>iii</i>) complex. <i>New Journal of Chemistry</i> , 2015, 39, 8908-8914.	1.4	7
37	Impact of a Carboxyl Group on a Cyclometalated Ligand: Hydrogen-Bond- and Coordination-Driven Self-Assembly of a Luminescent Platinum(II) Complex. <i>Inorganic Chemistry</i> , 2015, 54, 8878-8880.	1.9	31

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40	Near-Infrared Polymer Light-Emitting Diodes with High Efficiency and Low Efficiency Roll-off by Using Solution-Processed Iridium(III) Phosphors. Chemistry of Materials, 2015, 27, 96-104.	3.2	122
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45	Tailoring Optoelectronic Properties of Phenanthroline-Based Thermally Activated Delayed Fluorescence Emitters through Isomer Engineering. Advanced Optical Materials, 2016, 4, 1558-1566.	3.6	53
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48	A facile color-tuning strategy for constructing a library of Ir(III) complexes with fine-tuned phosphorescence from bluish green to red using a synergetic substituent effect of OCH_3 and CN at only the C-ring of C ^N ligand. Journal of Materials Chemistry C, 2016, 4, 4269-4277.	2.7	36
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52	Novel bipolar fluorescent polymers bearing N ⁺ -P ⁺ O ⁻ resonance structures for fluorescent-phosphorescent (F ⁺ P) hybrid white polymer light-emitting diodes (WPLEDs). RSC Advances, 2016, 6, 38424-38429.	1.7	3
53	High-performance doping-free hybrid white organic light-emitting diodes: The exploitation of ultrathin emitting nanolayers ($\leq 1\text{ nm}$). Nano Energy, 2016, 26, 26-36.	8.2	88
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60	Metal Complexes with Azolate-Functionalized Multidentate Ligands: Tactical Designs and Optoelectronic Applications. <i>Chemistry - A European Journal</i> , 2016, 22, 17892-17908.	1.7	64
61	Aggregation-induced intersystem crossing: a novel strategy for efficient molecular phosphorescence. <i>Nanoscale</i> , 2016, 8, 17422-17426.	2.8	151
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63	Tuning Emission of AIE-Active Organometallic Ir(III) Complexes by Simple Modulation of Strength of Donor/Acceptor on Ancillary Ligands. <i>Organometallics</i> , 2016, 35, 3996-4001.	1.1	46
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65	Electrochemically deposited interlayer between PEDOT:PSS and phosphorescent emitting layer for multilayer solution-processed phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9509-9515.	2.7	20
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67	Achieving Optimal Self-Adaptivity for Dynamic Tuning of Organic Semiconductors through Resonance Engineering. <i>Journal of the American Chemical Society</i> , 2016, 138, 9655-9662.	6.6	71
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69	Aggregation-induced emission (AIE) active iridium complexes toward highly efficient single-layer non-doped electroluminescent devices. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10464-10470.	2.7	27
70	Self-Host Blue-Emitting Iridium Dendrimer Containing Bipolar Dendrons for Nondoped Electrophosphorescent Devices with Superior High-Brightness Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29600-29607.	4.0	46
71	A curious interplay in the films of N-heterocyclic carbene PtII complexes upon deposition of alkali metals. <i>Scientific Reports</i> , 2016, 6, 25548.	1.6	5
72	Asymmetric <i>tris</i> -Heteroleptic Iridium(III) Complexes Containing a 9-Phenyl-9-phosphafluorene Oxide Moiety with Enhanced Charge Carrier Injection/Transporting Properties for Highly Efficient Solution-Processed Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2016, 28, 8556-8569.	3.2	58
73	New phosphorescent platinum(II) complexes: lamellar mesophase and mechanochromism. <i>New Journal of Chemistry</i> , 2016, 40, 10371-10377.	1.4	21

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76	Non-doped luminescent material based organic light-emitting devices displaying high brightness under very low driving voltage. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7013-7019.	2.7	26
77	Solution-processed OLEDs based on phosphorescent PtAu ₂ complexes with phenothiazine-functionalized acetylides. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6096-6103.	2.7	39
78	Cyclometalated gold(III) trioxadiborin complexes: studies of the bonding and excited states. <i>Dalton Transactions</i> , 2016, 45, 3820-3830.	1.6	10
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83	The substituent effect of 2-R-o-carborane on the photophysical properties of iridium(III) cyclometalates. <i>Dalton Transactions</i> , 2016, 45, 5667-5675.	1.6	34
84	From Mononuclear to Dinuclear Iridium(III) Complex: Effective Tuning of the Optoelectronic Characteristics for Organic Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2016, 55, 1720-1727.	1.9	127
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86	High-efficiency solution-processed OLEDs based on cationic Ag ₆ Cu heteroheptanuclear cluster complexes with aromatic acetylides. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1787-1794.	2.7	46
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88	Recent advances of neutral rhenium(I) tricarbonyl complexes for application in organic light-emitting diodes. <i>Synthetic Metals</i> , 2016, 212, 131-141.	2.1	66
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90	Emissive bis-tridentate Ir(III) metal complexes: Tactics, photophysics and applications. <i>Coordination Chemistry Reviews</i> , 2017, 346, 91-100.	9.5	130
91	Luminescent Tungsten(VI) Complexes: Photophysics and Applicability to Organic Light-Emitting Diodes and Photocatalysis. <i>Angewandte Chemie</i> , 2017, 129, 139-143.	1.6	13

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94	Single-component Eu ³⁺ –Tb ³⁺ –Gd ³⁺ -grafted polymer with ultra-high color rendering index white-light emission. <i>RSC Advances</i> , 2017, 7, 6762-6771.	1.7	21
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96	Novel columnar metallomesogens based on cationic platinum(ⁱⁱ) complexes without long peripheral chains. <i>RSC Advances</i> , 2017, 7, 11389-11393.	1.7	12
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99	High-efficiency organic light-emitting diodes of phosphorescent PtAg ₂ heterotrinnuclear acetylide complexes supported by triphosphine. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3072-3078.	2.7	30
100	Doping-free white organic light-emitting diodes without blue molecular emitter: An unexplored approach to achieve high performance via exciplex emission. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	39
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105	Progress on benzimidazole-based iridium(III) complexes for application in phosphorescent OLEDs. <i>Organic Electronics</i> , 2017, 41, 56-72.	1.4	49
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108	Polymer Gating White Flexible Field-Induced Lighting Device. <i>Advanced Materials Technologies</i> , 2017, 2, 1700017.	3.0	8
109	Regulating Charge and Exciton Distribution in High-Performance Hybrid White Organic Light-Emitting Diodes with n-Type Interlayer Switch. <i>Nano-Micro Letters</i> , 2017, 9, 37.	14.4	37

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111	Investigation of a sterically hindered Pt(II) complex to avoid aggregation-induced quenching: Applications in deep red electroluminescent and electrical switching devices. <i>Synthetic Metals</i> , 2017, 227, 106-116.	2.1	12
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113	Rational Design and Characterization of Heteroleptic Phosphorescent Complexes for Highly Efficient Deep-Red Organic Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11749-11758.	4.0	57
114	Phosphorescent Neutral Iridium (III) Complexes for Organic Light-Emitting Diodes. <i>Topics in Current Chemistry</i> , 2017, 375, 39.	3.0	45
115	Highly efficient thienylquinoline-based phosphorescent iridium(III) complexes for red and white organic light-emitting diodes. <i>Organic Electronics</i> , 2017, 45, 293-301.	1.4	47
116	Luminescent Iridium(III) Complexes Supported by a Tetradentate Trianionic Ligand Scaffold with Mixed O, N, and C Donor Atoms: Synthesis, Structures, Photophysical Properties, and Material Applications. <i>Organometallics</i> , 2017, 36, 1331-1344.	1.1	18
117	Near-infrared emission from binuclear platinum (II) complexes containing pyrenylpyridine and pyridylthiolate units: Synthesis, photo-physical and electroluminescent properties. <i>Dyes and Pigments</i> , 2017, 138, 162-168.	2.0	40
118	Rational design and synthesis of cationic Ir(III) complexes with triazolate cyclometalated and ancillary ligands for multi-color tuning. <i>Dyes and Pigments</i> , 2017, 139, 524-532.	2.0	21
119	Photoluminescence and electroluminescence of iridium(III) complexes with 2,6-bis(trifluoromethyl)-2,4-bipyridine and 1,3,4-oxadiazole/1,3,4-thiadiazole derivative ligands. <i>Dalton Transactions</i> , 2017, 46, 845-853.	1.6	24
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121	Exploitation of redox-active 1,4-dicyanobenzene and 9,10-dicyanoanthracene as the organic electrode materials in rechargeable lithium battery. <i>Electrochemistry Communications</i> , 2017, 75, 29-32.	2.3	47
122	Pyridine linked fluorene hybrid bipolar host for blue, green, and orange phosphorescent organic light-emitting diodes toward solution processing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11937-11946.	2.7	15
123	Synthesis of biscyclometalated iridium(III) acetylacetonate complexes via a 15Åmin bridge-splitting reaction, their characterisations and photophysical properties. <i>Journal of Organometallic Chemistry</i> , 2017, 851, 184-188.	0.8	4
124	Highly Efficient Red and White Organic Light-Emitting Diodes with External Quantum Efficiency beyond 20% by Employing Pyridylimidazole-Based Metallophosphors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37873-37882.	4.0	65
125	Synthesis, Structures, and Properties of Luminescent (C ^N)gold(III) Alkyl Complexes: Correlation between Photoemission Energies and C-H Acidity. <i>Organometallics</i> , 2017, 36, 3304-3312.	1.1	28
126	Facile cyclometallation of a mesitylsilylene: synthesis and preliminary catalytic activity of iridium(ⁱⁱⁱ) and iridium(^v) iridasilacyclopentenes. <i>Chemical Communications</i> , 2017, 53, 10275-10278.	2.2	38
127	Doping-free tandem white organic light-emitting diodes. <i>Science Bulletin</i> , 2017, 62, 1193-1200.	4.3	37

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128	Solution-processed small-molecular white organic light-emitting diodes based on a thermally activated delayed fluorescence dendrimer. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10001-10006.	2.7	49
129	Efficient and Practical Synthesis of Electron Transport Material and Its Key Intermediate. <i>Organic Process Research and Development</i> , 2017, 21, 1675-1681.	1.3	6
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