Yu Liu

List of Publications by Year
in descending order

60 papers	3,590 citations	136950 32 h-index	128289 60 g-index
62 all docs	62 docs citations	62 times ranked	2895 citing authors

#	Article	IF	Citations
1	Deep-Red and Near-Infrared Iridium Complexes with Fine-Tuned Emission Colors by Adjusting Trifluoromethyl Substitution on Cyclometalated Ligands Combined with Matched Ancillary Ligands for Highly Efficient Phosphorescent Organic Light-Emitting Diodes. Molecules, 2022, 27, 286.	3.8	11
2	Facile access to high-performance reverse intersystem crossing OLED materials through an unsymmetrical D-A-Dâ€™ molecular scaffold. Chemical Engineering Journal, 2022, 450, 137989.	12.7	4
3	Simple/efficient solution-processed emitting systems dominated by a novel bipolar small-molecule iridium(<scp>iii</scp>) complex. Materials Advances, 2021, 2, 5906-5911.	5.4	4
4	Rational Molecular Design of Multifunctional Blueâ€Emitting Materials Based on Phenanthroimidazole Derivatives.. Chemistry - A European Journal, 2021, 27, 7275-7282.	3.3	23
5	Enhanced performance of white organic light-emitting devices based on ambipolar white organic single crystals. Applied Physics Letters, 2021, 118, .	3.3	1
6	Novel Deepâ€Blue Hybridized Local and Chargeâ€Transfer Host Emitter for Highâ€Quality Fluorescence/Phosphor Hybrid Quasiâ€White Organic Lightâ€Emitting Diode. Advanced Functional Materials, 2021, 31, 2100704.	14.9	63
7	Highly efficient phosphorescent organic light-emitting diodes based on novel bipolar iridium complexes with easily-tuned emission colors by adjusting fluorine substitution on phenylpyridine ligands. Journal of Materials Chemistry C, 2021, 9, 8329-8336.	5.5	11
8	Wellâ€Balanced Ambipolar Organic Single Crystals toward Highly Efficient Lightâ€Emitting Devices. Advanced Functional Materials, 2020, 30, 2002422.	14.9	22
9	High-quality warm white organic electroluminescence from efficient phosphor-only emitting systems based on bipolar iridium(<scp>iii</scp>) complexes. Journal of Materials Chemistry C, 2020, 8, 16730-16735.	5.5	7
10	Simple/efficient phosphor-only emitting systems: from sky-blue to warm-white organic electroluminescence based on a novel bipolar phosphorescent emitter as the host. Journal of Materials Chemistry C, 2020, 8, 5355-5360.	5.5	5
11	Achieving Highâ€Performance Pureâ€Red Electrophosphorescent Iridium(III) Complexes Based on Optimizing Ancillary Ligands. Chemistry - A European Journal, 2020, 26, 4410-4418.	3.3	11
12	A multifunctional bipolar host material based on phenanthroimidazole for efficient green and red PhOLEDs with low turn-on voltage. Organic Electronics, 2019, 69, 85-91.	2.6	20
13	Novel sky blue heteroleptic iridium(<scp>iii</scp>) complexes with finely-optimized emission spectra for highly efficient organic light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 5579-5583.	5.5	10
14	Direct monitoring of the recombination zone in highly efficient phosphorescent organic light-emitting diodes based on a high-doping concentration emitting system. Journal of Materials Chemistry C, 2019, 7, 13287-13293.	5.5	4
15	Novel Blue Bipolar Thermally Activated Delayed Fluorescence Material as Host Emitter for Highâ€Efficiency Hybrid Warmâ€White OLEDs with Stable High Colorâ€Rendering Index. Advanced Functional Materials, 2018, 28, 1707002.	14.9	81
16	A twisted phenanthroimidazole based molecule with high triplet energy as a host material for high efficiency phosphorescent OLEDs. Journal of Materials Chemistry C, 2018, 6, 12888-12895.	5.5	18
17	Intramolecular Ï€â€“Ï€ Interactions with a Chiral Auxiliary Ligand Control Diastereoselectivity in a Cyclometalated Ir(III) Complex. Inorganic Chemistry, 2018, 57, 12836-12849.	4.0	8
18	Synthesis and optoelectronic properties of dinuclear cyclometalated platinum (II) complexes containing naphthalene-functionalized carbazole groups in the single-emissive-layer WPLEDs. Journal of Organometallic Chemistry, 2017, 835, 52-59.	1.8	7

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19	Highly Efficient Long-Wavelength Thermally Activated Delayed Fluorescence OLEDs Based on Dicyanopyrazino Phenanthrene Derivatives. ACS Applied Materials & Interfaces, 2017, 9, 9892-9901.	8.0	168
20	Color Tuning of Efficient Electroluminescence in the Blue and Green Regions Using Heteroleptic Iridium Complexes with 2-Phenoxyoxazole Ancillary Ligands. Organometallics, 2017, 36, 1810-1821.	2.3	16
21	Rational Design and Characterization of Heteroleptic Phosphorescent Complexes for Highly Efficient Deep-Red Organic Light-Emitting Devices. ACS Applied Materials & Interfaces, 2017, 9, 11749-11758.	8.0	57
22	AIEE-active blue-emitting molecules derived from methoxyl-decorated triarylcyclopentadienes: Synthesis, crystal structures, photophysical and electroluminescence properties. Dyes and Pigments, 2017, 147, 465-475.	3.7	10
23	Deepâ€Red to Nearâ€Infrared Thermally Activated Delayed Fluorescence in Organic Solid Films and Electroluminescent Devices. Angewandte Chemie - International Edition, 2017, 56, 11525-11529.	13.8	293
24	Deepâ€Red to Nearâ€Infrared Thermally Activated Delayed Fluorescence in Organic Solid Films and Electroluminescent Devices. Angewandte Chemie, 2017, 129, 11683-11687.	2.0	47
25	Geometric Shape Regulation and Noncovalent Synthesis of One-Dimensional Organic Luminescent Nano-/Micro-Materials. Journal of Physical Chemistry Letters, 2017, 8, 3711-3717.	4.6	5
26	Two Hostâ€“Dopant Emitting Systems Realizing Four-Color Emission: A Simple and Effective Strategy for Highly Efficient Warm-White Organic Light-Emitting Diodes with High Color-Rendering Index at High Luminance. ACS Applied Materials & Interfaces, 2016, 8, 11221-11225.	8.0	36
27	Supramolecular Structure-Dependent Thermally-Activated Delayed Fluorescence (TADF) Properties of Organic Polymorphs. Journal of Physical Chemistry C, 2016, 120, 19759-19767.	3.1	60
28	Rational design and characterization of heteroleptic phosphorescent iridium(<scp>iii</scp>) complexes for highly efficient deep-blue OLEDs. Journal of Materials Chemistry C, 2016, 4, 10246-10252.	5.5	48
29	Novel Emitting System Based on a Multifunctional Bipolar Phosphor: An Effective Approach for Highly Efficient Warmâ€White Lightâ€Emitting Devices with High Colorâ€Rendering Index at High Luminance. Advanced Materials, 2016, 28, 5963-5968.	21.0	92
30	Efficient blue-emitting molecules by incorporating sulfur-containing moieties into triarylcyclopentadiene: Synthesis, crystal structures and photophysical properties. Dyes and Pigments, 2016, 124, 145-155.	3.7	15
31	Highly Efficient Nearâ€Infrared Delayed Fluorescence Organic Light Emitting Diodes Using a Phenanthreneâ€Based Chargeâ€Transfer Compound. Angewandte Chemie - International Edition, 2015, 54, 13068-13072.	13.8	500
32	High performance full color OLEDs based on a class of molecules with dual carrier transport channels and small singletâ€“triplet splitting. Chemical Communications, 2015, 51, 10632-10635.	4.1	88
33	Highly efficient, little efficiency roll-off orange-red electrophosphorescent devices based on a bipolar iridium complex. Journal of Materials Chemistry C, 2015, 3, 1452-1456.	5.5	19
34	High performance blue-green and green phosphorescent OLEDs based on iridium complexes with N^C^N-coordinated terdentate ligands. RSC Advances, 2015, 5, 18328-18334.	3.6	15
35	Achieving high power efficiency and low roll-off OLEDs based on energy transfer from thermally activated delayed excitons to fluorescent dopants. Chemical Communications, 2015, 51, 11972-11975.	4.1	95
36	A novel bipolar phosphorescent host for highly efficient deep-red OLEDs at a wide luminance range of 1000â€“10â€‰000 cd mâ^’2. Chemical Communications, 2015, 51, 12544-12547.	4.1	46

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37	A novel tetraphenylsilaneâ€“phenanthroimidazole hybrid host material for highly efficient blue fluorescent, green and red phosphorescent OLEDs. Journal of Materials Chemistry C, 2015, 3, 4394-4401.	5.5	86
38	Structurally simple phenanthroimidazole-based bipolar hosts for high-performance green and red electroluminescent devices. RSC Advances, 2015, 5, 73926-73934.	3.6	14
39	Very High Efficiency Orangeâ€Red Lightâ€Emitting Devices with Low Rollâ€Off at High Luminance Based on an Idealâ€“Guest System Consisting of Two Novel Phosphorescent Iridium Complexes with Bipolar Transport. Advanced Functional Materials, 2014, 24, 7420-7426.	14.9	100
40	New multifunctional phenanthroimidazoleâ€“phosphine oxide hybrids for high-performance red, green and blue electroluminescent devices. Journal of Materials Chemistry C, 2014, 2, 6817-6826.	5.5	68
41	New oxazoline- and thiazoline-containing heteroleptic iridium(iii) complexes for highly-efficient phosphorescent organic light-emitting devices (PhOLEDs): colour tuning by varying the electroluminescence bandwidth. Journal of Materials Chemistry C, 2013, 1, 6800.	5.5	27
42	Concentration-insensitive and low-driving-voltage OLEDs with high efficiency and little efficiency roll-off using a bipolar phosphorescent emitter. Organic Electronics, 2013, 14, 1649-1655.	2.6	19
43	Highly efficient phosphorescent OLEDs with host-independent and concentration-insensitive properties based on a bipolar iridium complex. Journal of Materials Chemistry C, 2013, 1, 2920.	5.5	68
44	Bis-Cyclometalated Iridium(III) Complexes Bearing Ancillary Guanidinate Ligands. Synthesis, Structure, and Highly Efficient Electroluminescence. Inorganic Chemistry, 2012, 51, 822-835.	4.0	47
45	Direct evidence for the electronâ€“hole pair mechanism by studying the organic magneto-electroluminescence based on charge-transfer states. Organic Electronics, 2012, 13, 1774-1778.	2.6	14
46	Phenanthroimidazole-derivative semiconductors as functional layer in high performance OLEDs. New Journal of Chemistry, 2011, 35, 1534.	2.8	87
47	A phosphorescent material with high and balanced carrier mobility for efficient OLEDs. Chemical Communications, 2011, 47, 3150.	4.1	48
48	Highly efficient white organic electroluminescence device based on a phosphorescent orange material doped in a blue host emitter. Journal of Materials Chemistry, 2011, 21, 3551.	6.7	102
49	Novel beryllium complex as the non-doped emitter for highly efficient deep-blue organic light-emitting diode. Organic Electronics, 2011, 12, 1914-1919.	2.6	29
50	Solution processable quinacridone based materials as acceptor for organic heterojunction solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 2670-2676.	6.2	32
51	High-efficiency and high-quality white organic light-emitting diode employing fluorescent emitters. Organic Electronics, 2011, 12, 29-33.	2.6	41
52	High-efficiency and deep-blue fluorescent organic light-emitting diodes with the easily controlled doping concentrations. Organic Electronics, 2011, 12, 1068-1072.	2.6	22
53	Fluorinated quinacridone derivative based organic light-emitting device with high power efficiency. Organic Electronics, 2010, 11, 1180-1184.	2.6	35
54	Amidinate-ligated iridium(iii) bis(2-pyridyl)phenyl complex as an excellent phosphorescent material for electroluminescence devices. Chemical Communications, 2009, , 3699.	4.1	116

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55	Very high-efficiency red-electroluminescence devices based on an amidinate-ligated phosphorescent iridium complex. Journal of Materials Chemistry, 2009, 19, 8072.	6.7	81
56	Supramolecular Structures and Assembly and Luminescent Properties of Quinacridone Derivatives. Journal of Physical Chemistry B, 2005, 109, 8008-8016.	2.6	135
57	Highly Efficient White Organic Electroluminescence from a Double-Layer Device Based on a Boron Hydroxyphenylpyridine Complex. Angewandte Chemie - International Edition, 2002, 41, 182-184.	13.8	102
58	High-performance blue electroluminescent devices based on hydroxyphenyl-pyridine beryllium complex. Applied Physics Letters, 2001, 78, 2300-2302.	3.3	83
59	White light emission from exciplex using tris-(8-hydroxyquinoline)aluminum as chromaticity-tuning layer. Applied Physics Letters, 2001, 78, 3947-3949.	3.3	165
60	Hydroxyphenyl-pyridine Beryllium Complex (Bepp2) as a Blue Electroluminescent Material. Chemistry of Materials, 2000, 12, 2672-2675.	6.7	72