

Liang Zhou

List of Publications by Year in descending order

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95
papers

3,214
citations

185998

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54
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docs citations

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times ranked

3718
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and photophysical properties of ternary β^2 -diketonate europium(III) complexes incorporating bipyridine and its derivatives. <i>Dyes and Pigments</i> , 2022, 197, 109879.	2.0	21
2	High-quality all-fluorescent white organic light-emitting diodes obtained by balancing carriers with hole limit layer. <i>Optical Materials</i> , 2022, 123, 111917.	1.7	2
3	Preparation and characterisation of dual sensing carbon dots for water and Cu ²⁺ detection. <i>Dyes and Pigments</i> , 2022, 198, 110008.	2.0	18
4	Very bright and efficient ITO-free narrow-spectrum micro-cavity top-emitting organic light-emitting diodes with low operation voltage. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3241-3247.	2.7	1
5	High-performance full phosphorescent warm white organic light-emitting diodes with external quantum efficiency of 34.5%. <i>Optical Materials</i> , 2022, 124, 112005.	1.7	1
6	Green organic light-emitting diodes with high power efficiency by constructing well-matched device structure to low down operation voltage. <i>Journal of Luminescence</i> , 2022, 245, 118777.	1.5	2
7	Highly efficient solution-processed white organic light-emitting diodes based on a co-host system by controlling energy transfer among different emitters. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5648-5656.	2.7	3
8	Salts of Lanthanide(III) Hexafluoroacetylacetonates [Ln = Sm(III), Eu(III) and Tb(III)] with Dipyritylammonium cations: Synthesis, characterization, photophysical properties and OLED fabrication. <i>Dyes and Pigments</i> , 2022, 203, 110300.	2.0	23
9	High-performance narrow spectrum green phosphorescent top-emitting organic light-emitting devices with external quantum efficiency up to 38%. <i>Semiconductor Science and Technology</i> , 2022, 37, 015016.	1.0	1
10	An effective encapsulation for perovskite solar cells based on building-integrated photovoltaics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8972-8978.	2.7	7
11	Investigation progresses of rare earth complexes as emitters or sensitizers in organic light-emitting diodes. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	17
12	Efficient Nondoped Pure Red/Near-Infrared TADF OLEDs by Designing and Adjusting Double Quantum Wells Structure. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3615-3622.	2.0	5
13	Facile access to high-performance reverse intersystem crossing OLED materials through an unsymmetrical D-A-D π TM molecular scaffold. <i>Chemical Engineering Journal</i> , 2022, 450, 137989.	6.6	4
14	Efficient red electroluminescent devices with very low operation voltage by utilizing hole and electron transport materials as the host. <i>Thin Solid Films</i> , 2021, 717, 138474.	0.8	7
15	Efficient green electroluminescent devices with low operation voltage and slow efficiency roll-off by utilizing hole transport material as host. <i>Optical Materials</i> , 2021, 112, 110773.	1.7	3
16	Improved Efficiency Roll-Off and Operational Lifetime of Organic Light-Emitting Diodes with a Tetradentate Platinum(II) Complex by Using an n-Doped Electron-Transporting Layer. <i>Molecules</i> , 2021, 26, 1835.	1.7	0
17	Highly Efficient Blue Single-Emitting Layer Phosphorescent Organic Light-Emitting Diodes with a Low Driving Voltage. , 2021, , .		0
18	A tris β^2 -diketonate europium(III) complex based OLED fabricated by thermal evaporation method displaying efficient bright red emission. <i>Organic Electronics</i> , 2021, 96, 106216.	1.4	51

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19	Efficient deep-blue organic light-emitting diodes with low driving voltage and high color purity. <i>Optical Materials</i> , 2021, 115, 111044.	1.7	6
20	Semitransparent Circularly Polarized Phosphorescent Organic Light-Emitting Diodes with External Quantum Efficiency over 30% and Dissymmetry Factor Close to 10^2 . <i>Advanced Functional Materials</i> , 2021, 31, 2102898.	7.8	60
21	Chiral Thermally Activated Delayed Fluorescence Materials Based on $\langle R \rangle \langle S \rangle \langle N \rangle^2$, $\langle N \rangle \langle N \rangle^2$ -Diphenyl[1,1'-binaphthalene]-2,2'-diamine Donor with Narrow Emission Spectra for Highly Efficient Circularly Polarized Electroluminescence. <i>Advanced Functional Materials</i> , 2021, 31, 2103875.	7.8	61
22	Highly efficient yellow organic light-emitting diodes with slow efficiency roll-off by mixing red and green emissions. <i>Optical Materials</i> , 2021, 119, 111309.	1.7	4
23	One-Step Green Solvothermal Synthesis of Full-Color Carbon Quantum Dots Based on a Doping Strategy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8939-8946.	2.1	55
24	High performance blue and white phosphorescent organic light-emitting diodes obtained by sensitizing both light-emitting and electron transport layers. <i>Journal of Luminescence</i> , 2021, 238, 118226.	1.5	5
25	Highly efficient blue phosphorescent organic light-emitting diodes with low operation voltage. <i>Optics and Laser Technology</i> , 2021, 142, 107229.	2.2	0
26	High efficiency electroluminescence of orange-red iridium(III) complexes for OLEDs with an EQE over 30%. <i>Dyes and Pigments</i> , 2021, 195, 109733.	2.0	11
27	Improved color quality in double-EML WOLEDs by using a tetradentate Pt($\langle scp \rangle ii \langle scp \rangle$) complex as a green/red emitter. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3384-3390.	2.7	16
28	Utilization of double-sensitized structure toward achieving high performance green and red phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11729-11737.	2.7	5
29	Efficient green fluorescent organic light-emitting diodes with extended lifetimes by exploiting an iridium complex as a sensitizer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15295-15300.	2.7	4
30	Investigating the exciton formation zone and its roles in phosphorescent organic light emitting diodes. <i>Semiconductor Science and Technology</i> , 2021, 36, 125014.	1.0	6
31	High Performance Yellow Phosphorescent Organic Light-Emitting Diodes Based on an Efficient Carriers Regulating Structure with Iridium Complex as Electron Manager. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25422-25429.	1.5	2
32	High-performance fluorescent organic electroluminescent devices benefit from sensitization of thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17526-17530.	2.7	1
33	Unveiling the Relationship between Energy Transfer and the Triplet Energy Level by Tuning Diarylethene within Europium(III) Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 661-668.	1.9	9
34	Efficient multi-light-emitting layers warm and pure white phosphorescent organic light-emitting diodes with excellent color stability. <i>Journal of Luminescence</i> , 2020, 228, 117596.	1.5	12
35	Monochromatic red electroluminescence from a homodinuclear europium($\langle scp \rangle iii \langle scp \rangle$) complex of a β^2 -diketone tethered by 2,2'-bipyrimidine. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9816-9827.	2.7	29
36	Bright red phosphorescent organic electroluminescent devices with slow efficiency roll-off by utilizing iridium(III) complex as hole-type sensitizer. <i>Dyes and Pigments</i> , 2020, 178, 108311.	2.0	4

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37	High-performance thermally activated delayed fluorescence organic light-emitting diodes with a wide gap phosphorescent complex as a sensitizer. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5984-5990.	2.7	9
38	The width of exciton formation zone dominates the performance of phosphorescent organic light emitting diodes. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	7
39	An Ultraviolet Thermally Activated Delayed Fluorescence OLED with Total External Quantum Efficiency over 9%. <i>Advanced Materials</i> , 2020, 32, e2001248.	11.1	134
40	Study of a composite solid electrolyte made from a new pyrrolidone-containing polymer and LLZTO. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 389-398.	5.0	20
41	Pure-blue fluorescent organic light-emitting diodes by co-doping a supplementary host material into a light-emitting layer as an electron transport ladder. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3438-3444.	2.7	15
42	High performance blue and white fluorescent organic electroluminescent devices with conventional electron transport material as blue emitter. <i>Dyes and Pigments</i> , 2020, 178, 108354.	2.0	4
43	Bright and efficient red emitting electroluminescent devices fabricated from ternary europium complexes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5600-5612.	2.7	28
44	Efficient green organic electroluminescent devices based on thermally activated delayed fluorescence emitter by constructing supplementary light-emitting layer. <i>Thin Solid Films</i> , 2019, 685, 353-359.	0.8	3
45	Efficient blue organic light-emitting diodes with low operation voltage by improving the injection and transport of holes. <i>Optical Materials</i> , 2019, 97, 109383.	1.7	4
46	Green phosphorescent organic electroluminescent devices with 27.9% external quantum efficiency by employing a terbium complex as a co-dopant. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7953-7958.	2.7	22
47	Utilization of Ternary Europium Complex for Organic Electroluminescent Devices and as a Sensitizer to Improve Electroluminescence of Red-Emitting Iridium Complex. <i>Inorganic Chemistry</i> , 2019, 58, 8316-8331.	1.9	38
48	Pure Red Iridium(III) Complexes Possessing Good Electron Mobility with 1,5-Naphthyridin-4-ol Derivatives for High-Performance OLEDs with an EQE over 31%. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20192-20199.	4.0	37
49	Highly efficient deep-blue OLEDs based on hybridized local and charge-transfer emitters bearing pyrene as the structural unit. <i>Chemical Communications</i> , 2019, 55, 6317-6320.	2.2	89
50	A series of red iridium(III) complexes using flexible dithiocarbamate derivatives as ancillary ligands for highly efficient phosphorescent OLEDs. <i>Materials Chemistry Frontiers</i> , 2019, 3, 860-866.	3.2	16
51	Efficient phosphorescent red iridium(III) complexes containing a four-membered Ir-Ca-S ring backbone and large hindered spacers for high-performance OLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3862-3868.	2.7	19
52	Configurationally Stable Platinahelicene Enantiomers for Efficient Circularly Polarized Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2019, 25, 5672-5676.	1.7	98
53	Synthesis and Near Infrared Luminescence Properties of a Series of Lanthanide Complexes with POSS Modified Ligands. <i>Molecules</i> , 2019, 24, 1253.	1.7	10
54	Rapid room temperature synthesis of red iridium(III) complexes containing a four-membered Ir-Ca-S chelating ring for highly efficient OLEDs with EQE over 30%. <i>Chemical Science</i> , 2019, 10, 3535-3542.	3.7	55

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55	Highly efficient green single-emitting layer phosphorescent organic light-emitting diodes with an iridium(Ir^{III}) complex as a hole-type sensitizer. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2744-2750.	2.7	13
56	A single component white electroluminescent device fabricated from a metallo-organic terbium complex. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13966-13975.	2.7	35
57	Acquiring High-Performance Deep-Blue OLED Emitters through an Unexpected Blueshift Color-Tuning Effect Induced by Electron-Donating OMe Substituents. <i>Chemistry - A European Journal</i> , 2018, 24, 8056-8060.	1.7	38
58	Dual-emissive 2-(2-hydroxyphenyl)oxazoles for high performance organic electroluminescent devices: discovery of a new equilibrium of excited state intramolecular proton transfer with a reverse intersystem crossing process. <i>Chemical Science</i> , 2018, 9, 1213-1220.	3.7	84
59	Highly efficient green and white fluorescent organic electroluminescent devices with co-doped electron transport material as both supplementary host and blue emitter. <i>Journal of Luminescence</i> , 2018, 204, 668-675.	1.5	6
60	Highly efficient green organic light-emitting devices based on terbium complex by employing hole block material as host. <i>Science China Technological Sciences</i> , 2018, 61, 1334-1339.	2.0	13
61	Solvent-dependent carbon dots and their applications in the detection of water in organic solvents. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7527-7532.	2.7	149
62	High performance red phosphorescent organic electroluminescent devices with characteristic mechanisms by utilizing terbium or gadolinium complexes as sensitizers. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2066-2073.	2.7	31
63	Unexpected Sole Enol-Form Emission of 2-(2-hydroxyphenyl)oxazoles for Highly Efficient Deep-Blue-Emitting Organic Electroluminescent Devices. <i>Advanced Functional Materials</i> , 2017, 27, 1605245.	7.8	72
64	A Simple Strategy for the Controlled Synthesis of Ultrasmall Hexagonal-Phase $\text{NaYF}_4\text{:Yb,Er}$ Upconversion Nanocrystals. <i>ChemPhotoChem</i> , 2017, 1, 369-375.	1.5	18
65	High performance pure blue organic fluorescent electroluminescent devices by utilizing a traditional electron transport material as the emitter. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4219-4225.	2.7	11
66	Efficient orange-red electroluminescence of iridium complexes with 1-(2,6-bis(trifluoromethyl)pyridin-4-yl)isoquinoline and 4-(2,6-bis(trifluoromethyl)pyridin-4-yl)quinazoline ligands. <i>Dalton Transactions</i> , 2017, 46, 14916-14925.	1.6	19
67	Highly efficient orange-red electroluminescence of iridium complexes with good electron mobility. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8150-8159.	2.7	25
68	Highly fluorescent nitrogen-doped carbon dots with excellent thermal and photo stability applied as invisible ink for loading important information and anti-counterfeiting. <i>Nanoscale</i> , 2017, 9, 491-496.	2.8	203
69	Highly efficient green phosphorescent organic electroluminescent devices with a terbium complex as the sensitizer. <i>Dyes and Pigments</i> , 2017, 136, 361-367.	2.0	23
70	Efficient green electroluminescent devices based on iridium complex with wide energy gap complexes as sensitizers. <i>Organic Electronics</i> , 2016, 37, 85-92.	1.4	10
71	Green organic light-emitting devices with external quantum efficiency up to nearly 30% based on an iridium complex with a tetraphenylimidodiphosphinate ligand. <i>RSC Advances</i> , 2016, 6, 63200-63205.	1.7	20
72	Novel Design of Iridium Phosphors with Pyridinylphosphinate Ligands for High-Efficiency Blue Organic Light-emitting Diodes. <i>Scientific Reports</i> , 2016, 6, 38478.	1.6	35

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73	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 $\text{C}^{\wedge}\text{N}$ ligand. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4269-4277.	2.7	36
74	Highly Efficient Organic Light-Emitting Diodes with Low Efficiency Roll-Off Based on Iridium Complexes Containing Pinene Sterically Hindered Spacer. <i>Advanced Optical Materials</i> , 2016, 4, 1726-1731.	3.6	34
75	High performance red organic electroluminescent devices based on a trivalent iridium complex with stepwise energy levels. <i>RSC Advances</i> , 2016, 6, 71282-71286.	1.7	9
76	Facile synthesis of nitrogen-doped carbon dots with robust fluorescence in a strongly alkaline solution and a reversible fluorescence off/on switch between strongly acidic and alkaline solutions. <i>RSC Advances</i> , 2016, 6, 108203-108208.	1.7	14
77	Highly efficient pure red organic light-emitting devices based on tris(1-phenyl-isoquinoline) iridium(III) with another wide gap iridium(III) complex as sensitizer. <i>Dyes and Pigments</i> , 2016, 128, 26-32.	2.0	18
78	Efficient organic blue fluorescent light-emitting devices with improved carriers' balance on emitter molecules by constructing supplementary light-emitting layer. <i>Dyes and Pigments</i> , 2016, 130, 148-153.	2.0	19
79	Synthesis and optoelectronic properties of oxadiazole coordinated boron complexes. <i>CrystEngComm</i> , 2016, 18, 4382-4387.	1.3	14
80	Efficient red organic electroluminescent devices based on trivalent europium complex obtained by designing the device structure with stepwise energy levels. <i>Journal of Luminescence</i> , 2016, 170, 692-696.	1.5	26
81	Rare Earth Complex as Electron Trapper and Energy Transfer Ladder for Efficient Red Iridium Complex Based Electroluminescent Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16046-16053.	4.0	53
82	Efficient single light-emitting layer pure blue phosphorescent organic light-emitting devices with wide gap host and matched interlayer. <i>Journal of Luminescence</i> , 2015, 168, 38-42.	1.5	5
83	Efficient Red Electroluminescent Devices with Sterically Hindered Phosphorescent Platinum(II) Schiff Base Complexes and Iridium Complex Codopant. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2984-2994.	1.7	48
84	Highly efficient green phosphorescent OLEDs based on a novel iridium complex. <i>Journal of Materials Chemistry C</i> , 2013, 1, 560-565.	2.7	86
85	Efficient blue-emitting Ir(III) complexes with phenylmethylbenzimidazolyl and picolinate ligands: A DFT and time-dependent DFT study. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 1641-1649.	1.0	13
86	Density functional theory and time-dependent density functional theory study on a series of iridium complexes with tetraphenylimidodiphosphinate ligand. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 840-848.	0.9	11
87	Combining Coordination Modulation with Acid-Base Adjustment for the Control over Size of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2012, 24, 444-450.	3.2	223
88	Synthesis of 3D Hierarchical Fe_3O_4 /Graphene Composites with High Lithium Storage Capacity and for Controlled Drug Delivery. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21567-21573.	1.5	288
89	Highly Efficient Green and Blue-Green Phosphorescent OLEDs Based on Iridium Complexes with the Tetraphenylimidodiphosphinate Ligand. <i>Advanced Materials</i> , 2011, 23, 4041-4046.	11.1	291
90	Bright electroluminescent devices with tunable spectra obtained by strictly controlling the doping concentration of electron injection sensitizer. <i>Journal of Luminescence</i> , 2010, 130, 2265-2270.	1.5	8

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91	High-Brightness, Broad-Spectrum White Organic Electroluminescent Device Obtained by Designing Light-Emitting Layers as also Carrier Transport Layers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21723-21727.	1.5	17
92	One-pot synthesis of flowerlike Ni ₇ S ₆ and its application in selective hydrogenation of chloronitrobenzene. <i>Journal of Materials Chemistry</i> , 2010, 20, 1078-1085.	6.7	75
93	The Reasons for Ligand-Dependent Quantum Yields and Absorption Spectrum of Four Polypyridylruthenium(II) Complexes with a Tetrazolate-Based Ligand: TDDFT Study. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4052-4061.	1.0	8
94	Mechanisms of efficiency enhancement in the doped electroluminescent devices based on a europium complex. <i>Journal of Applied Physics</i> , 2008, 104, 114507.	1.1	18
95	Conversion process of the dominant electroluminescence mechanism in a molecularly doped organic light-emitting device with only electron trapping. <i>Journal of Applied Physics</i> , 2007, 102, 064504.	1.1	24