

Bin Wei

List of Publications by Year in descending order

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105
papers

1,904
citations

304743

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docs citations

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times ranked

2153
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and Ultravioletâ€Durable Nonfullerene Organic Solar Cells: From Interfacial Passivation and Microstructural Modification Perspectives. <i>Advanced Materials Interfaces</i> , 2022, 9, 2101894.	3.7	7
2	Biomimetic Superhydrophobic Films with an Extremely Low Roll-Off Angle Modified by F16CuPc via Two-Step Fabrication. <i>Nanomaterials</i> , 2022, 12, 953.	4.1	1
3	Highly Stable Grapheneâ€Based Flexible Hybrid Transparent Conductive Electrodes for Organic Solar Cells. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	19
4	Enhancing the Light Outputâ€Coupling of Inverted Topâ€Emitting Organic Lightâ€Emitting Diodes by Using the Localized Surface Plasmon Resonance of Ag Nanoparticles. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	4
5	Deep blue exciplex tandem OLEDs using n- and p-doped planar heterojunction as a charge generation layer. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 315103.	2.8	6
6	Mixed-Dimensional MXene-Based Composite Electrodes Enable Mechanically Stable and Efficient Flexible Perovskite Light-Emitting Diodes. <i>Nano Letters</i> , 2022, 22, 4246-4252.	9.1	24
7	Highly thermal-stable organic light-emitting diodes with a bulk heterojunction interfacial modification layer. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 070910.	1.5	3
8	Highâ€Performance Inverted Tandem OLEDs with the Charge Generation Layer based on MoO ₃ and Ag Doped Planar Heterojunction. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	8
9	Improved stability of blue TADF organic electroluminescent diodes via OXD-7 based mixed host. <i>Frontiers of Optoelectronics</i> , 2021, 14, 491-498.	3.7	1
10	High-Efficiency Organic Photovoltaic Cells With an Antimony Quantum Sheet Modified Hole Extraction Layer. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 111-117.	2.5	9
11	Switching the resistive memory behavior from binary to ternary logic via subtle polymer donor and molecular acceptor design. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5643-5651.	5.5	16
12	The solution-processed fabrication of perovskite light-emitting diodes for low-cost and commercial applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12037-12045.	5.5	7
13	Efficiently luminescent mononuclear copper iodide complexes with sterically hindered iminephosphine chelating ligands. <i>New Journal of Chemistry</i> , 2021, 45, 8763-8768.	2.8	11
14	Polarity-dependent solvatochromic properties of thermally activated delayed fluorescence with donorâ€acceptor constituents under different excitation energies. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13935-13941.	5.5	4
15	A MoSe ₂ quantum dot modified hole extraction layer enables binary organic solar cells with improved efficiency and stability. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16500-16509.	10.3	16
16	Halide perovskite based light-emitting diodes: a scaling up perspective. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7532-7538.	5.5	7
17	Use of Hybrid PEDOT:PSS/Metal Sulfide Quantum Dots for a Hole Injection Layer in Highly Efficient Green Phosphorescent Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2021, 9, 657557.	3.6	5
18	Toward Improved Device Efficiency and Stability of Organic Lightâ€Emitting Diodes via External Pressure Treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100120.	1.8	1

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19	An antimonene modified hole extraction layer for high efficiency PEDOT:PSS-free nonfullerene organic solar cells. <i>Organic Electronics</i> , 2021, 93, 106163.	2.6	5
20	Toward Improved Device Efficiency and Stability of Organic Light-Emitting Diodes via External Pressure Treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2170042.	1.8	0
21	Steerable fabrication of MoS ₂ nanoarray through one-step vacuum thermal evaporation technology. <i>Journal of Materials Science</i> , 2021, 56, 16558-16569.	3.7	0
22	Improved green thermal activated delayed fluorescence OLEDs based on thermally evaporated distributed Bragg reflector (DBR) of MgF ₂ /ZnS. <i>Nanotechnology</i> , 2021, 32, 455203.	2.6	2
23	Toward improved stability of nonfullerene organic solar cells: Impact of interlayer and built-in potential. <i>EcoMat</i> , 2021, 3, e12134.	11.9	28
24	Transfer-Printed Nanoscale Poly(3-hexylthiophene-2,5-diyl) Layers for Organic Photodetectors. <i>ACS Applied Nano Materials</i> , 2021, 4, 10725-10734.	5.0	4
25	Enhanced Charge Collection in Non-Fullerene Organic Solar Cells Using Iridium Complex as an Electron Extraction Layer. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100850.	3.7	4
26	Deep-blue organic light-emitting diodes based on multi-tert-butyl modified naphthylene. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 102, 44-50.	5.8	10
27	Thermally stable inverted organic light-emitting diodes using Ag-doped 4,7-diphenyl-1,10-phenanthroline as an electron injection layer. <i>Organic Electronics</i> , 2021, 99, 106307.	2.6	3
28	Long-lasting and efficient inverted pure blue organic light-emitting diodes by inserting an ultrathin aluminum interlayer. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152299.	5.5	12
29	Performance enhancement of small molecular solar cells via luminescent sensitizer 4,5-bis(carbazol-9-yl)-1,2-dicyanobenzene (2CzPN). <i>Journal Physics D: Applied Physics</i> , 2020, 53, 125102.	2.8	4
30	Ultraviolet-Durable Flexible Nonfullerene Organic Solar Cells Realized by a Hybrid Nanostructured Transparent Electrode. <i>Solar Rrl</i> , 2020, 4, 1900522.	5.8	24
31	Investigation of post-thermal annealing-induced enhancement in photovoltaic performance for squaraine-based organic solar cells. <i>Frontiers of Materials Science</i> , 2020, 14, 81-88.	2.2	1
32	Decrease of intermolecular interactions for less-doped efficient deep blue monomer light-emitting diodes. <i>Organic Electronics</i> , 2020, 78, 105577.	2.6	8
33	Progress on ultraviolet organic electroluminescence and lasing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14665-14694.	5.5	53
34	A Multi-functional Molecular Modifier Enabling Efficient Large-Area Perovskite Light-Emitting Diodes. <i>Joule</i> , 2020, 4, 1977-1987.	24.0	111
35	High-performance near-infrared organic phototransistors based on diketopyrrolopyrrole conjugated polymers with partial removal of long branched alkyl side chains. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16915-16922.	5.5	12
36	Hybrid nanostructured plasmonic electrodes for flexible organic light-emitting diodes. <i>Nanotechnology</i> , 2020, 31, 375203.	2.6	9

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37	Hybrid plasmonic nano-emitters with controlled single quantum emitter positioning on the local excitation field. <i>Nature Communications</i> , 2020, 11, 3414.	12.8	33
38	Reliability of organic light-emitting diodes in low-temperature environment*. <i>Chinese Physics B</i> , 2020, 29, 128503.	1.4	4
39	High-performance light-soaking-free polymer solar cells based on a LiF modified ZnO electron extraction layer. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9354-9361.	5.5	18
40	Highly-efficient solution-processed green phosphorescent organic light-emitting diodes with reduced efficiency roll-off using ternary blend hosts. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11109-11117.	5.5	20
41	Efficient and chromaticity-stable flexible white organic light-emitting devices based on organic-inorganic hybrid color-conversion electrodes. <i>RSC Advances</i> , 2019, 9, 22577-22585.	3.6	2
42	Solution-processed ZnO/MoS ₂ quantum dots electron extraction layer for high performance inverted organic photovoltaics. <i>Organic Electronics</i> , 2019, 75, 105381.	2.6	11
43	Robust Sub-10 nm Pattern of Standing Sugar Cylinders via Rapid Microwave Cooking. <i>Macromolecules</i> , 2019, 52, 8751-8758.	4.8	10
44	Effect of ZnO Electron Extraction Layer on Charge Recombination and Collection Properties in Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 7385-7392.	5.1	26
45	Facile synthesis of solution-processed MoS ₂ nanosheets and their application in high-performance ultraviolet organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 926-936.	5.5	38
46	Synthesis, photophysical and electroluminescent properties of iridium(III) complexes with 2-aryl-thiazole and oxadiazol-substituted amide derivative ligands. <i>New Journal of Chemistry</i> , 2019, 43, 4272-4281.	2.8	5
47	Towards all-solution-processed top-illuminated flexible organic solar cells using ultrathin Ag-modified graphite-coated poly(ethylene terephthalate) substrates. <i>Nanophotonics</i> , 2019, 8, 297-306.	6.0	22
48	Multifunctional Organic Emitters for High Performance and Low-Cost Organic Light-Emitting Diodes. <i>Chemical Record</i> , 2019, 19, 1768-1778.	5.8	10
49	High-Performance White Organic Light-Emitting Diodes Using Distributed Bragg Reflector by Atomic Layer Deposition. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1415.	2.5	9
50	Efficient Organic Light Emitting Diodes Using Solution-Processed Alkali Metal Carbonate Doped ZnO as Electron Injection Layer. <i>Frontiers in Chemistry</i> , 2019, 7, 226.	3.6	11
51	Low energy consumption phosphorescent organic light-emitting diodes using phenyl anthracenone derivatives as the host featuring bipolar and thermally activated delayed fluorescence. <i>RSC Advances</i> , 2019, 9, 6881-6889.	3.6	5
52	Pseudo-Biological Highly Performance Transparent Electrodes Based on Capillary Force-Welded Hybrid AgNW Network. <i>IEEE Access</i> , 2019, 7, 177944-177953.	4.2	12
53	Solution-Processed Double-Junction Quantum-Dot Light-Emitting Diodes with an EQE of Over 40%. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1065-1070.	8.0	44
54	Sol-gel processed vanadium oxide as efficient hole injection layer in visible and ultraviolet organic light-emitting diodes. <i>Optics and Laser Technology</i> , 2019, 113, 239-245.	4.6	17

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55	Highly efficient and foldable top-emission organic light-emitting diodes based on Ag-nanoparticles modified graphite electrode. <i>Organic Electronics</i> , 2019, 64, 146-153.	2.6	22
56	Tunable hole injection of solution-processed polymeric carbon nitride towards efficient organic light-emitting diode. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	18
57	Magnetic nanoparticles/PEDOT:PSS composite hole-injection layer for efficient organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4903-4911.	5.5	23
58	Solution-processed WO ₃ hole injection layer for efficient fluorescent blue organic light-emitting diode. <i>Current Applied Physics</i> , 2018, 18, 583-589.	2.4	8
59	Influence of thermal annealing-induced molecular aggregation on film properties and photovoltaic performance of bulk heterojunction solar cells based on a squaraine dye. <i>Frontiers of Materials Science</i> , 2018, 12, 139-146.	2.2	4
60	Synthesis of carboline-based host materials for forming copper(I) complexes as emitters: A promising strategy for achieving high-efficiency and low-cost phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2018, 149, 387-392.	3.7	7
61	Functional versatile bipolar 3,3'-dimethyl-9,9'-bianthracene derivatives as an efficient host and deep-blue emitter. <i>Dyes and Pigments</i> , 2018, 148, 329-340.	3.7	25
62	Efficient Deep-Blue Electrofluorescence with an External Quantum Efficiency Beyond 10%. <i>IScience</i> , 2018, 9, 532-541.	4.1	65
63	Comparison of the Solution and Vacuum-Processed Squaraine:Fullerene Small-Molecule Bulk Heterojunction Solar Cells. <i>Frontiers in Chemistry</i> , 2018, 6, 412.	3.6	11
64	The Feasibility of Using Magnetron Sputtered MoO ₃ as Effective Hole Injection Layer in Organic Light-Emitting Diode. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800166.	1.8	3
65	Enhanced photovoltaic performance of inverted polymer solar cells through atomic layer deposited Al ₂ O ₃ passivation of ZnO-nanoparticle buffer layer. <i>Nanotechnology</i> , 2018, 29, 395204.	2.6	7
66	Extremely low-efficiency roll-off of phosphorescent organic light-emitting diodes at high brightness based on acridine heterocyclic derivatives. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9713-9722.	5.5	13
67	Exceeding 4% external quantum efficiency in ultraviolet organic light-emitting diode using PEDOT:PSS/MoO ₃ double-stacked hole injection layer. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	47
68	Efficiency enhancement in DIBSQ:PC71BM organic photovoltaic cells by using Liq-doped Bphen as a cathode buffer layer. <i>Frontiers of Materials Science</i> , 2017, 11, 233-240.	2.2	6
69	Efficient blue electroluminescence of iridium(III) complexes with oxadiazol-substituted amide ancillary ligands. <i>Dyes and Pigments</i> , 2017, 145, 116-125.	3.7	18
70	Solution-processed aqueous composite hole injection layer of PEDOT:PSS+MoO ₃ for efficient ultraviolet organic light-emitting diode. <i>Organic Electronics</i> , 2017, 46, 7-13.	2.6	46
71	Organic light-emitting diodes using novel embedded Al grid transparent electrodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 87, 118-122.	2.7	8
72	Super color purity green organic light-emitting diodes with ZrO ₂ /zirconolaminates as a distributed Bragg reflector deposited by atomic layer deposition. <i>Nanotechnology</i> , 2017, 28, 044002.	2.6	9

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73	Ultrahigh-luminance organic light-emitting diodes using LiF/MgAg as cathode for the application of both surface emission. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 651, 142-147.	0.9	1
74	Enhanced performance in inverted organic light-emitting diodes using Li ion doped ZnO cathode buffer layer. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 651, 118-125.	0.9	6
75	High-performance flexible inverted organic light-emitting diodes by exploiting MoS ₂ nanopillar arrays as electron-injecting and light-coupling layers. <i>Nanoscale</i> , 2017, 9, 14602-14611.	5.6	32
76	The effect of processing solvent dependent film aggregation on the photovoltaic performance of squaraine:PC71BM bulk heterojunction solar cells. <i>Organic Electronics</i> , 2017, 51, 62-69.	2.6	26
77	Iridium(III) complexes bearing oxadiazol-substituted amide ligands: color tuning and application in highly efficient phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9146-9156.	5.5	31
78	Stable green phosphorescence organic light-emitting diodes with low efficiency roll-off using a novel bipolar thermally activated delayed fluorescence material as host. <i>Chemical Science</i> , 2017, 8, 1259-1268.	7.4	77
79	Lasing and Transport Properties of Poly[(9,9-dioctyl-2,7-divinylfluorenylene)-alt-co-(2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylene)] (POFP) for the Application of Diode-Pumped Organic Solid Lasers. <i>Nanoscale Research Letters</i> , 2017, 12, 602.	5.7	6
80	Extremely low color temperature white organic electroluminescence devices based on the control of exciton recombination zone. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2400-2405.	1.8	11
81	Improved performance of polymer solar cells by using inorganic, organic, and doped cathode buffer layers. <i>Chinese Physics B</i> , 2016, 25, 038402.	1.4	11
82	Facile Synthesis of Highly Efficient Lepidine-Based Phosphorescent Iridium(III) Complexes for Yellow and White Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016, 26, 881-894.	14.9	217
83	Highly thermally-stable 4,4'-bis(4- ³ -triphenylsilylphenyl)-1,1'-binaphthalene as the ultraviolet amplified spontaneous emitter, efficient host and deep-blue emitting material. <i>Dyes and Pigments</i> , 2016, 130, 266-272.	3.7	16
84	Highly efficient green phosphorescent organic light-emitting diodes with low efficiency roll-off based on iridium(III) complexes bearing oxadiazol-substituted amide ligands. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5469-5475.	5.5	25
85	Sunlight-like white organic light-emitting diodes with inorganic/organic nanolaminate distributed Bragg reflector (DBR) anode microcavity by using atomic layer deposition. <i>Organic Electronics</i> , 2016, 33, 88-94.	2.6	10
86	Temperature and Exciton Concentration Induced Excimer Emission of 4,4'-Bis(4'- ² -Triphenylsilyl) Phenyl-1,1'-Binaphthalene and Application for Sunlight-Like White Organic Light-Emitting Diodes. <i>Nanoscale Research Letters</i> , 2016, 11, 379.	5.7	5
87	Solution-processed Ag-nanowire/ZnO-nanoparticle composite transparent electrode for flexible organic solar cells. <i>Nanotechnology</i> , 2016, 27, 505208.	2.6	17
88	Extremely high external quantum efficiency of inverted organic light-emitting diodes with low operation voltage and reduced efficiency roll-off by using sulfide-based double electron injection layers. <i>RSC Advances</i> , 2016, 6, 55626-55634.	3.6	21
89	Enhanced photovoltaic performance in inverted polymer solar cells using Li ion doped ZnO cathode buffer layer. <i>Organic Electronics</i> , 2016, 36, 50-56.	2.6	29
90	Remarkable improvement in electroluminescence benefited from appropriate electron injection and transporting in ultraviolet organic light-emitting diode. <i>Optics and Laser Technology</i> , 2016, 82, 199-202.	4.6	18

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91	Electroluminescence enhancement in ultraviolet organic light-emitting diode with graded hole-injection and -transporting structure. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 353-357.	2.4	15
92	Highly efficient ultraviolet organic light-emitting diodes and interface study using impedance spectroscopy. <i>Optik</i> , 2015, 126, 1595-1597.	2.9	17
93	Exciplex formation and electroluminescent absorption in ultraviolet organic light-emitting diodes. <i>Chinese Physics B</i> , 2015, 24, 024222.	1.4	13
94	High color rendering index and chromatic-stable white organic light-emitting diodes with single-host double emissive layer structure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 958-962.	1.8	2
95	Carrier transfer and luminescence characteristics of concentration-dependent phosphorescent Ir(ppy) ₃ doped CBP film. <i>Optics and Laser Technology</i> , 2014, 56, 20-24.	4.6	23
96	Blue organic light-emitting diodes with 2-methyl-9,10-bis(naphthalen-2-yl)anthracene as hole transport and emitting layer and the impedance spectroscopy analysis. <i>Current Applied Physics</i> , 2014, 14, 1460-1464.	2.4	11
97	High-Efficiency Near Ultraviolet and Blue Organic Light-Emitting Diodes Using Star-Shaped Material as Emissive and Hosting Molecules. <i>Journal of Display Technology</i> , 2014, 10, 642-646.	1.2	23
98	Improved hole-transporting properties of Ir complex-doped organic layer for high-efficiency organic light-emitting diodes. <i>Organic Electronics</i> , 2013, 14, 124-130.	2.6	33
99	A very simple method of constructing efficient inverted top-emitting organic light-emitting diode based on Ag/Al bilayer reflective cathode. <i>Journal of Luminescence</i> , 2012, 132, 1-5.	3.1	15
100	Thin film encapsulation for OLED display using silicon nitride and silicon oxide composite film. , 2011, , .		5
101	Low roll-off efficiency and chromatic-stable white organic light-emitting diodes based on excimer emission. , 2011, , .		1
102	Stable, Glassy, and Versatile Binaphthalene Derivatives Capable of Efficient Hole Transport, Hosting, and Deep-Blue Light Emission. <i>Advanced Functional Materials</i> , 2010, 20, 2448-2458.	14.9	73
103	High Coupling Efficiency of Microcavity Organic Light-Emitting Diode with Optical Fiber for as Light Source for Optical Interconnects. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 642-646.	1.5	15
104	Organic solid laser pumped by an organic light-emitting diode. <i>Optics Express</i> , 2006, 14, 9436.	3.4	23
105	Low Energy-Consumption Inverted Orange Organic Light-Emitting Diodes with Reduced Efficiency Roll-Off. <i>Materials Science Forum</i> , 0, 976, 104-109.	0.3	0