Shuming Chen

List of Publications by Year
in descending order

177 papers	9,798 citations	36203 51 h-index	40881 93 g-index
184 all docs	184 docs citations	184 times ranked	8894 citing authors

#	Article	IF	Citations
1	Changing the Behavior of Chromophores from Aggregationâ€Caused Quenching to Aggregationâ€Induced Emission: Development of Highly Efficient Light Emitters in the Solid State. Advanced Materials, 2010, 22, 2159-2163.	11.1	834
2	Efficient Solid Emitters with Aggregation-Induced Emission and Intramolecular Charge Transfer Characteristics: Molecular Design, Synthesis, Photophysical Behaviors, and OLED Application. Chemistry of Materials, 2012, 24, 1518-1528.	3.2	472
3	Creation of highly efficient solid emitter by decorating pyrene core with AIE-active tetraphenylethene peripheries. Chemical Communications, 2010, 46, 2221.	2.2	352
4	Aggregation-induced emission, self-assembly, and electroluminescence of 4,4â€²-bis(1,2,2-triphenylvinyl)biphenyl. Chemical Communications, 2010, 46, 686-688.	2.2	313
5	Halide-Rich Synthesized Cesium Lead Bromide Perovskite Nanocrystals for Light-Emitting Diodes with Improved Performance. Chemistry of Materials, 2017, 29, 5168-5173.	3.2	253
6	Hybrid Perovskite Lightâ€Emitting Diodes Based on Perovskite Nanocrystals with Organicâ€"Inorganic Mixed Cations. Advanced Materials, 2017, 29, 1606405.	11.1	235
7	Efficient Red/Green/Blue Tandem Quantum-Dot Light-Emitting Diodes with External Quantum Efficiency Exceeding 21%. ACS Nano, 2018, 12, 697-704.	7.3	234
8	Phenanthro[9,10-d]imidazole as a new building block for blue light emitting materials. Journal of Materials Chemistry, 2011, 21, 5451.	6.7	229
9	Pyrene-substituted ethenes: aggregation-enhanced excimer emission and highly efficient electroluminescence. Journal of Materials Chemistry, 2011, 21, 7210.	6.7	206
10	Efficient Light Emitters in the Solid State: Synthesis, Aggregationâ€Induced Emission, Electroluminescence, and Sensory Properties of Luminogens with Benzene Cores and Multiple Triarylvinyl Peripherals. Advanced Functional Materials, 2012, 22, 378-389.	7.8	198
11	Tuning the Electronic Nature of Aggregation-Induced Emission Luminogens with Enhanced Hole-Transporting Property. Chemistry of Materials, 2011, 23, 2536-2544.	3.2	184
12	Full emission color tuning in luminogens constructed from tetraphenylethene, benzo-2,1,3-thiadiazole and thiophene building blocks. Chemical Communications, 2011, 47, 8847.	2.2	175
13	White Organic Lightâ€Emitting Diodes with Evenly Separated Red, Green, and Blue Colors for Efficiency/Colorâ€Rendition Tradeâ€Off Optimization. Advanced Functional Materials, 2011, 21, 3785-3793.	7.8	162
14	Near-infrared and visible light dual-mode organic photodetectors. Science Advances, 2020, 6, eaaw8065.	4.7	156
15	Efficient quantum dot light-emitting diodes with a Zn_{0.85}Mg_{0.15}O interfacial modification layer. Nanoscale, 2017, 9, 8962-8969.	2.8	149
16	Towards high efficiency solid emitters with aggregation-induced emission and electron-transport characteristics. Chemical Communications, 2011, 47, 11216.	2.2	136
17	Highâ€Performance CsPb_{1â^'<i>x</i>}Sn_{<i>x</i>}Br₃ Perovskite Quantum Dots for Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2017, 56, 13650-13654.	7.2	133
18	Cadmiumâ€Free InP/ZnSeS/ZnS Heterostructureâ€Based Quantum Dot Lightâ€Emitting Diodes with a ZnMgO Electron Transport Layer and a Brightness of Over 10 000 cd m^{â^'2}. Small, 2017, 13, 1603962.	5.2	124

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19	Over 100 cd A^{â^’1} Efficient Quantum Dot Lightâ€Emitting Diodes with Inverted Tandem Structure. Advanced Functional Materials, 2017, 27, 1700610.	7.8	117
20	Quantum-dot and organic hybrid tandem light-emitting diodes with multi-functionality of full-color-tunability and white-light-emission. Nature Communications, 2020, 11, 2826.	5.8	115
21	Siloles symmetrically substituted on their 2,5-positions with electron-accepting and donating moieties: facile synthesis, aggregation-enhanced emission, solvatochromism, and device application. Chemical Science, 2012, 3, 549-558.	3.7	114
22	Steric Hindrance, Electronic Communication, and Energy Transfer in the Photo- and Electroluminescence Processes of Aggregation-Induced Emission Luminogens. Journal of Physical Chemistry C, 2010, 114, 7963-7972.	1.5	109
23	Thin film perovskite light-emitting diode based on CsPbBr 3 powders and interfacial engineering. Nano Energy, 2017, 37, 40-45.	8.2	107
24	Stereoselective Synthesis, Efficient Light Emission, and High Bipolar Charge Mobility of Chiasmatic Luminogens. Advanced Materials, 2011, 23, 5430-5435.	11.1	105
25	Investigation on Thermally Induced Efficiency Roll-Off: Toward Efficient and Ultrabright Quantum-Dot Light-Emitting Diodes. ACS Nano, 2019, 13, 11433-11442.	7.3	105
26	Using tetraphenylethene and carbazole to create efficient luminophores with aggregation-induced emission, high thermal stability, and good hole-transporting property. Journal of Materials Chemistry, 2012, 22, 4527.	6.7	103
27	Aggregation-induced emission, mechanochromism and blue electroluminescence of carbazole and triphenylamine-substituted ethenes. Journal of Materials Chemistry C, 2014, 2, 4320-4327.	2.7	102
28	Hydrophobic Cu₂O Quantum Dots Enabled by Surfactant Modification as Top Holeâ€Transport Materials for Efficient Perovskite Solar Cells. Advanced Science, 2019, 6, 1801169.	5.6	101
29	A simple and efficient approach toward deep-red to near-infrared-emitting iridium(<scp>iii</scp>) complexes for organic light-emitting diodes with external quantum efficiencies of over 10%. Chemical Science, 2020, 11, 2342-2349.	3.7	101
30	Beyond OLED: Efficient Quantum Dot Lightâ€Emitting Diodes for Display and Lighting Application. Chemical Record, 2019, 19, 1729-1752.	2.9	95
31	Plasmonic Perovskite Light-Emitting Diodes Based on the Agâ€“CsPbBr₃ System. ACS Applied Materials & Interfaces, 2017, 9, 4926-4931.	4.0	91
32	Light extraction from organic light-emitting diodes for lighting applications by sand-blasting substrates. Optics Express, 2010, 18, 37.	1.7	86
33	A tetraphenylethene-based red luminophor for an efficient non-doped electroluminescence device and cellular imaging. Journal of Materials Chemistry, 2012, 22, 11018.	6.7	85
34	Cyclometalated Iridium(III) Carbene Phosphors for Highly Efficient Blue Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 40497-40502.	4.0	84
35	High-Performance Quantum Dot Light-Emitting Diodes Based on Al-Doped ZnO Nanoparticles Electron Transport Layer. ACS Applied Materials & Interfaces, 2018, 10, 18902-18909.	4.0	82
36	Very Bright and Efficient Microcavity Top-Emitting Quantum Dot Light-Emitting Diodes with Ag Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 16768-16775.	4.0	81

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37	Improving Electron Mobility of Tetraphenylethene-Based AIEgens to Fabricate Nondoped Organic Light-Emitting Diodes with Remarkably High Luminance and Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 16799-16808.	4.0	81
38	Inverted Quantum-Dot Light-Emitting Diodes Fabricated by All-Solution Processing. ACS Applied Materials & Interfaces, 2016, 8, 5493-5498.	4.0	81
39	Solution-processed vanadium oxide as an efficient hole injection layer for quantum-dot light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 817-823.	2.7	79
40	Red emissive AIE luminogens with high hole-transporting properties for efficient non-doped OLEDs. Chemical Communications, 2015, 51, 7321-7324.	2.2	76
41	Efficient light-emitting diodes based on green perovskite nanocrystals with mixed-metal cations. Nano Energy, 2016, 30, 511-516.	8.2	76
42	Defects Passivation With Dithienobenzodithiopheneâ€based Ï€â€conjugated Polymer for Enhanced Performance of Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900029.	3.1	74
43	Origin of Positive Aging in Quantumâ€Dot Lightâ€Emitting Diodes. Advanced Science, 2018, 5, 1800549.	5.6	69
44	Flexible high energy density zinc-ion batteries enabled by binder-free MnO2/reduced graphene oxide electrode. Npj Flexible Electronics, 2018, 2, .	5.1	69
45	Universal Bipolar Host Materials for Blue, Green, and Red Phosphorescent OLEDs with Excellent Efficiencies and Small-Efficiency Roll-Off. ACS Applied Materials & Interfaces, 2019, 11, 27134-27144.	4.0	68
46	Construction of efficient solid emitters with conventional and AIE luminogens for blue organic light-emitting diodes. Journal of Materials Chemistry, 2011, 21, 10949.	6.7	67
47	Bright and efficient light-emitting diodes based on MA/Cs double cation perovskite nanocrystals. Journal of Materials Chemistry C, 2017, 5, 6123-6128.	2.7	67
48	Highly efficient iridium(<scp>iii</scp>) phosphors with phenoxy-substituted ligands and their high-performance OLEDs. Journal of Materials Chemistry C, 2013, 1, 808-821.	2.7	66
49	A Facile and Versatile Approach to Efficient Luminescent Materials for Applications in Organic Lightâ€Emitting Diodes. Chemistry - an Asian Journal, 2012, 7, 484-488.	1.7	65
50	Highly transparent quantum-dot light-emitting diodes with sputtered indium-tin-oxide electrodes. Journal of Materials Chemistry C, 2016, 4, 1838-1841.	2.7	57
51	Efficient vacuum-free-processed quantum dot light-emitting diodes with printable liquid metal cathodes. Nanoscale, 2016, 8, 17765-17773.	2.8	54
52	Sky-blue nondoped OLEDs based on new AIEgens: ultrahigh brightness, remarkable efficiency and low efficiency roll-off. Materials Chemistry Frontiers, 2017, 1, 176-180.	3.2	51
53	Aggregation-Induced Delayed Fluorescence Luminogens with Accelerated Reverse Intersystem Crossing for High-Performance OLEDs. , 2019, 1, 613-619.		51
54	Steric, conjugation and electronic impacts on the photoluminescence and electroluminescence properties of luminogens based on phosphindole oxide. Journal of Materials Chemistry C, 2017, 5, 1836-1842.	2.7	50

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55	Thermally activated delayed fluorescence material with aggregation-induced emission properties for highly efficient organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 2873-2881.	2.7	50
56	Top-emitting white organic light-emitting diodes with a color conversion cap layer. Organic Electronics, 2011, 12, 677-681.	1.4	49
57	Thermal assisted up-conversion electroluminescence in quantum dot light emitting diodes. Nature Communications, 2022, 13, 369.	5.8	49
58	Platinum(<scp>ii</scp>) cyclometallates featuring broad emission bands and their applications in color-tunable OLEDs and high color-rendering WOLEDs. Journal of Materials Chemistry C, 2016, 4, 6016-6026.	2.7	47
59	The synthesis of novel AIE emitters with the triphenylethene-carbazole skeleton and para-/meta-substituted arylboron groups and their application in efficient non-doped OLEDs. Journal of Materials Chemistry C, 2016, 4, 1228-1237.	2.7	46
60	Effect and mechanism of encapsulation on aging characteristics of quantum-dot light-emitting diodes. Nano Research, 2021, 14, 320-327.	5.8	46
61	Selective wetting/dewetting for controllable patterning of liquid metal electrodes for all-printed device application. Journal of Materials Chemistry C, 2017, 5, 12378-12383.	2.7	45
62	Non-doped white organic light-emitting diodes based on aggregation-induced emission. Journal Physics D: Applied Physics, 2010, 43, 095101.	1.3	42
63	Smart Design on the Cyclometalated Ligands of Iridium(III) Complexes for Facile Tuning of Phosphorescence Color Spanning from Deepâ€Blue to Nearâ€Infrared. Advanced Optical Materials, 2018, 6, 1800824.	3.6	42
64	Efficient and Color Stable White Quantumâ€Dot Lightâ€Emitting Diodes with External Quantum Efficiency Over 23%. Advanced Optical Materials, 2018, 6, 1800354.	3.6	42
65	A low-temperature-annealed and UV-ozone-enhanced combustion derived nickel oxide hole injection layer for flexible quantum dot light-emitting diodes. Nanoscale, 2019, 11, 1021-1028.	2.8	42
66	An ZnMgO:PVP inorganicâ€“organic hybrid electron transport layer: towards efficient bottom-emission and transparent quantum dot light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 2291-2298.	2.7	42
67	Systemic Studies of Tetraphenyletheneâ€“Triphenylamine Oligomers and a Polymer: Achieving Both Efficient Solidâ€State Emissions and Holeâ€Transporting Capability. Chemistry - A European Journal, 2012, 18, 9929-9938.	1.7	41
68	Highâ€Performance CsPb_{1âˆ'<i>x</i>}Sn_{<i>x</i>}Br₃ Perovskite Quantum Dots for Lightâ€Emitting Diodes. Angewandte Chemie, 2017, 129, 13838-13842.	1.6	41
69	Crafting NPB with tetraphenylethene: a winâ€“win strategy to create stable and efficient solid-state emitters with aggregation-induced emission feature, high hole-transporting property and efficient electroluminescence. Journal of Materials Chemistry C, 2014, 2, 3756-3761.	2.7	40
70	Stabilizing n-type hetero-junctions for NiO_x based inverted planar perovskite solar cells with an efficiency of 21.6%. Journal of Materials Chemistry A, 2020, 8, 1865-1874.	5.2	40
71	Efficient Quantum-Dot Light-Emitting Diodes With 4,4,4-Tris(N-Carbazolyl)-Triphenylamine (TcTa) Electron-Blocking Layer. IEEE Electron Device Letters, 2015, 36, 369-371.	2.2	37
72	Suppressing FÃ¶rster Resonance Energy Transfer in Closeâ€Packed Quantumâ€Dot Thin Film: Toward Efficient Quantumâ€Dot Lightâ€Emitting Diodes with External Quantum Efficiency over 21.6%. Advanced Optical Materials, 2020, 8, 1902092.	3.6	36

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73	Fabrication of color tunable organic light-emitting diodes by an alignment free mask patterning method. Organic Electronics, 2013, 14, 2001-2006.	1.4	35
74	Efficient deep blue electroluminescence with CIE<i>y</i> âˆ (0.05â€"0.07) from phenanthroimidazoleâ€"acridine derivative hybrid fluorophores. Journal of Materials Chemistry C, 2018, 6, 9363-9373.	2.7	35
75	Tuning the electronic nature of aggregation-induced emission chromophores with enhanced electron-transporting properties. Journal of Materials Chemistry, 2012, 22, 5184.	6.7	34
76	Dimesitylboryl-functionalized tetraphenylethene derivatives: efficient solid-state luminescent materials with enhanced electron-transporting ability for nondoped OLEDs. Journal of Materials Chemistry C, 2016, 4, 5241-5247.	2.7	33
77	Full color quantum dot lightâ€emitting diodes patterned by photolithography technology. Journal of the Society for Information Display, 2018, 26, 121-127.	0.8	33
78	Efficient red AIEgens based on tetraphenylethene: synthesis, structure, photoluminescence and electroluminescence. Journal of Materials Chemistry C, 2018, 6, 5900-5907.	2.7	33
79	Improving blue quantum dot light-emitting diodes by a lithium fluoride interfacial layer. Applied Physics Letters, 2019, 114, .	1.5	32
80	All-Inorganic Quantum-Dot Light-Emitting Diodes with Reduced Exciton Quenching by a MgO Decorated Inorganic Hole Transport Layer. ACS Applied Materials & Interfaces, 2019, 11, 11119-11124.	4.0	31
81	Aggregationâ€Induced Delayed Fluorescence Luminogens for Efficient Organic Lightâ€Emitting Diodes. Chemistry - an Asian Journal, 2019, 14, 828-835.	1.7	31
82	Understanding the Interplay of Binary Organic Spacer in Ruddlesdenâ€"Popper Perovskites toward Efficient and Stable Solar Cells. Advanced Functional Materials, 2020, 30, 1907759.	7.8	31
83	High-efficiency and high-contrast phosphorescent top-emitting organic light-emitting devices with p-type Si anodes. Optics Express, 2007, 15, 14644.	1.7	30
84	Performance of Inverted Quantum Dot Light-Emitting Diodes Enhanced by Using Phosphorescent Molecules as Exciton Harvesters. Journal of Physical Chemistry C, 2016, 120, 4667-4672.	1.5	30
85	Highly Luminescent CsPbBr₃@Cs₄PbBr₆ Nanocrystals and Their Application in Electroluminescent Emitters. Journal of Physical Chemistry Letters, 2020, 11, 10196-10202.	2.1	30
86	All solutionâ€processed white quantumâ€dot lightâ€emitting diodes with threeâ€unit tandem structure. Journal of the Society for Information Display, 2017, 25, 143-150.	0.8	28
87	Enhancing the Performance of Quantum-Dot Light-Emitting Diodes by Postmetallization Annealing. ACS Applied Materials & Interfaces, 2018, 10, 23218-23224.	4.0	28
88	Enlarged tetrasubstituted alkenes with enhanced thermal and optoelectronic properties. Chemical Communications, 2013, 49, 7216.	2.2	26
89	Electric Bias Induced Degradation in Organic-Inorganic Hybrid Perovskite Light-Emitting Diodes. Scientific Reports, 2018, 8, 15799.	1.6	26
90	Rational design of high efficiency green to deep red/near-infrared emitting materials based on isomeric donorâ€"acceptor chromophores. Journal of Materials Chemistry C, 2019, 7, 1880-1887.	2.7	26

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91	Tetraphenylbenzosilole: An AIE Building Block for Deep-Blue Emitters with High Performance in Nondoped Spin-Coating OLEDs. Journal of Organic Chemistry, 2020, 85, 158-167.	1.7	26
92	Photo-/electro-luminescence enhancement of CsPbX₃ (X = Cl, Br, or I) perovskite quantum dots <i>via</i> thiocyanate surface modification. Journal of Materials Chemistry C, 2020, 8, 1065-1071.	2.7	26
93	Flexible and tandem quantum-dot light-emitting diodes with individually addressable red/green/blue emission. Npj Flexible Electronics, 2021, 5, .	5.1	26
94	Identification of excess charge carriers in InP-based quantum-dot light-emitting diodes. Applied Physics Letters, 2020, 117, .	1.5	25
95	Naphthalene-substituted 2,3,4,5-tetraphenylsiloles: synthesis, structure, aggregation-induced emission and efficient electroluminescence. Journal of Materials Chemistry, 2012, 22, 20266.	6.7	24
96	Structural features and optical properties of a carbazole-containing ethene as a highly emissive organic solid. Journal of Materials Chemistry C, 2014, 2, 1004-1009.	2.7	24
97	Improved Efficiency and Enhanced Color Quality of Light-Emitting Diodes with Quantum Dot and Organic Hybrid Tandem Structure. ACS Applied Materials & Interfaces, 2016, 8, 26982-26988.	4.0	24
98	3,4-Donor- and 2,5-acceptor-functionalized dipolar siloles: synthesis, structure, photoluminescence and electroluminescence. Journal of Materials Chemistry C, 2017, 5, 4867-4874.	2.7	24
99	Growth methods, enhanced photoluminescence, high hydrophobicity and light scattering of 4,4â€²-bis(1,2,2-triphenylvinyl)biphenyl nanowires. Organic Electronics, 2012, 13, 1996-2002.	1.4	23
100	A new blue AIEgen based on tetraphenylethene with multiple potential applications in fluorine ion sensors, mechanochromism, and organic light-emitting diodes. New Journal of Chemistry, 2018, 42, 4089-4094.	1.4	23
101	ZnSe:Te/ZnSeS/ZnS nanocrystals: an access to cadmium-free pure-blue quantum-dot light-emitting diodes. Nanoscale, 2020, 12, 11556-11561.	2.8	23
102	Full color organic electroluminescent display with shared blue light-emitting layer for reducing one fine metal shadow mask. Organic Electronics, 2012, 13, 31-35.	1.4	22
103	Achieving Highâ€Performance Solutionâ€Processed Deepâ€Red/Nearâ€Infrared Organic Lightâ€Emitting Diodes with a Phenanthrolineâ€Based and Wedgeâ€Shaped Fluorophore. Advanced Electronic Materials, 2019, 5, 1800677.	2.6	22
104	One-step fabrication of organic nanoparticles as scattering media for extracting substrate waveguide light from organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 13386.	6.7	21
105	Aggregation-enhanced emission and through-space conjugation of tetraarylethanes and folded tetraarylethenes. Journal of Materials Chemistry C, 2016, 4, 9316-9324.	2.7	21
106	Less-Lead Control toward Highly Efficient Formamidinium-Based Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 24242-24248.	4.0	21
107	Over 32.5% Efficient Top-Emitting Quantum-Dot LEDs with Angular-Independent Emission. ACS Applied Materials & Interfaces, 2022, 14, 30039-30045.	4.0	21
108	Ultrahigh Resolution Pixelated Topâ€Emitting Quantumâ€Dot Lightâ€Emitting Diodes Enabled by Colorâ€Converting Cavities. Small Methods, 2022, 6, e2101090.	4.6	20

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109	Luminescent tetraphenylethene-substituted silanes. Pure and Applied Chemistry, 2010, 82, 863-870.	0.9	19
110	Alleviate microcavity effects in top-emitting white organic light-emitting diodes for achieving broadband and high color rendition emission spectra. Organic Electronics, 2011, 12, 2065-2070.	1.4	19
111	Cadmiumâ€Doped Zinc Sulfide Shell as a Hole Injection Springboard for Red, Green, and Blue Quantum Dot Lightâ€Emitting Diodes. Advanced Science, 2022, 9, e2104488.	5.6	19
112	High Performance NIR OLEDs with Emission Peak Beyond 760Ânm and Maximum EQE of 6.39%. Advanced Optical Materials, 2022, 10, .	3.6	19
113	A Facile Approach to Highly Efficient and Thermally Stable Solidâ€State Emitters: Knitting up AIEâ€Active TPE Luminogens by Aryl Linkers. ChemPlusChem, 2012, 77, 949-958.	1.3	18
114	Synthesis, aggregation-induced emission and electroluminescence properties of a novel compound containing tetraphenylethene, carbazole and dimesitylboron moieties. Journal of Materials Chemistry C, 2015, 3, 9095-9102.	2.7	17
115	The synthesis, crystal structures, aggregation-induced emission and electroluminescence properties of two novel green-yellow emitters based on carbazole-substituted diphenylethene and dimesitylboron. Organic Electronics, 2016, 33, 78-87.	1.4	17
116	Alternating-current driven quantum-dot light-emitting diodes with high brightness. Nanoscale, 2019, 11, 5231-5239.	2.8	17
117	The influence of the hole transport layers on the performance of blue and color tunable quantum dot lightâ€emitting diodes. Journal of the Society for Information Display, 2018, 26, 470-476.	0.8	16
118	New carbazole-substituted siloles for the fabrication of efficient non-doped OLEDs. Chinese Chemical Letters, 2019, 30, 592-596.	4.8	16
119	Efficient and Stable Quantumâ€Dot Lightâ€Emitting Diodes Enabled by Tin Oxide Multifunctional Electron Transport Layer. Advanced Optical Materials, 2022, 10, 2102404.	3.6	16
120	High-efficiency organic electroluminescent materials based on the Dâ€“Aâ€“D type with sterically hindered methyl groups. Journal of Materials Chemistry C, 2020, 8, 6851-6860.	2.7	15
121	Tuning the AIE Activities and Emission Wavelengths of Tetraphenylethene-Containing Luminogens. ChemistrySelect, 2016, 1, 812-818.	0.7	14
122	Construction of two AIE luminogens comprised of a tetra-/tri-phenylethene core and carbazole units for non-doped organic light-emitting diodes. Dyes and Pigments, 2018, 149, 323-330.	2.0	14
123	Recent progress in the device architecture of white quantum-dot light-emitting diodes. Journal of Information Display, 2019, 20, 169-180.	2.1	14
124	Synthesis, crystal structure, aggregation-induced emission (AIE) and electroluminescence properties of a novel emitting material based on pyrrolo[3,2-<i>b</i>]pyrrole. Journal of Materials Chemistry C, 2020, 8, 14208-14218.	2.7	14
125	Iridium(III) complexes with 1-phenylisoquinoline-4-carbonitrile units for efficient NIR organic light-emitting diodes. IScience, 2021, 24, 102911.	1.9	14
126	From A Fluorescent Chromophore in Solution to An Efficient Emitter in the Solid State. Chemistry - an Asian Journal, 2012, 7, 2424-2428.	1.7	13

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127	Tetrafluorinated phenylpyridine based heteroleptic iridium(<scp>iii</scp>) complexes for efficient sky blue phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 2551-2557.	2.7	13
128	New phosphorescent iridium(<scp>iii</scp>) dipyrrinato complexes: synthesis, emission properties and their deep red to near-infrared OLEDs. Dalton Transactions, 2021, 50, 10629-10639.	1.6	12
129	Bi-layer non-doped small-molecular white organic light-emitting diodes with high colour stability. Journal Physics D: Applied Physics, 2011, 44, 145101.	1.3	11
130	A Lowâ€Cost Nanoâ€modified Substrate Integrating both Internal and External Light Extractors for Enhancing Light Outâ€Coupling in Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2014, 2, 418-422.	3.6	11
131	Synthesis, aggregation-induced emission and electroluminescence properties of three new phenylethylene derivatives comprising carbazole and (dimesitylboranyl)phenyl groups. Journal of Materials Chemistry C, 2017, 5, 11741-11750.	2.7	11
132	ZnO:H indium-free transparent conductive electrodes for active-matrix display applications. Applied Physics Letters, 2014, 105, .	1.5	10
133	Top-emitting organic light-emitting diodes integrated with thermally evaporated scattering film for reducing angular dependence of emission spectra. Organic Electronics, 2015, 24, 195-199.	1.4	10
134	Two novel phenylethene-carbazole derivatives containing dimesitylboron groups: Aggregation-induced emission and electroluminescence properties. Dyes and Pigments, 2016, 128, 304-313.	2.0	10
135	The influence of H2O and O2 on the optoelectronic properties of inverted quantum-dot light-emitting diodes. Nano Research, 2021, 14, 4140-4145.	5.8	9
136	Enhanced conductivity of transparent and flexible silver nanowire electrodes fabricated by a solution-processed method at room temperature. Thin Solid Films, 2017, 624, 54-60.	0.8	8
137	Investigation of Exciton Recombination Zone in Quantum Dot Light-Emitting Diodes Using a Fluorescent Probe. ACS Applied Materials & Interfaces, 2017, 9, 27809-27816.	4.0	8
138	High throughput screening of novel tribromide perovskite materials for high-photovoltage solar cells. Journal of Materials Chemistry A, 2021, 9, 25502-25512.	5.2	8
139	On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, .	5.1	8
140	Pâ€9: Parylene / Al₂O₃ Double Layer Passivated Amorphous InGaZnO Thinâ€Film Transistors. Digest of Technical Papers SID International Symposium, 2017, 48, 1258-1261.	0.1	7
141	Improving the Performance of Organic Perovskite Solar Cells by Additive Engineering with 6â€Aminonicotinic Acid. Solar Rrl, 2022, 6, .	3.1	7
142	He plasma treatment of transparent conductive ZnO thin films. Applied Surface Science, 2015, 355, 702-705.	3.1	6
143	Nanocrystallized Organic Thin Films as Effective Light Outcoupling Layers for Organic Lightâ€Emitting Diodes. Israel Journal of Chemistry, 2014, 54, 847-854.	1.0	5
144	13â€3: Topâ€emitting Quantumâ€dot Lightâ€emitting Diodes with all the pâ€iâ€n Functional Layers Deposited by Solution Processes. Digest of Technical Papers SID International Symposium, 2017, 48, 161-164.	0.1	5

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145	Laminated low-melting-point-alloy electrodes for vacuum-free-processed quantum-dot light-emitting-diodes. Applied Physics Letters, 2020, 117, .	1.5	5
146	High performance top-emitting quantum dot light-emitting diodes with interfacial modification. AIP Advances, 2020, 10, .	0.6	5
147	Blue OLEDs with narrow bandwidth using CF3 substituted bis((carbazol-9-yl)phenyl)amines as emitters: Structural regulation of linker between donor and acceptor in chromophores. Dyes and Pigments, 2021, 194, 109627.	2.0	5
148	20.3: Optimizing the Balance of Holes and Electrons in Inverted Quantum Dot Lightâ€Emitting Diodes by Inserting Electron Transportation Barrier Layer. Digest of Technical Papers SID International Symposium, 2015, 46, 274-277.	0.1	4
149	73â€4: Tandem Red Quantumâ€Dot Lightâ€Emitting Diodes with External Quantum Efficiency over 34 %. Digest of Technical Papers SID International Symposium, 2018, 49, 977-980.	0.1	4
150	51â€4: QLEDâ€onâ€Silicon Microdisplays. Digest of Technical Papers SID International Symposium, 2020, 51, 758-761.	0.1	4
151	P-165: Efficient RGBW OLEDs Based on 4, 4'-Bis (1, 2, 2-triphenylvinyl) biphenyl. Digest of Technical Papers SID International Symposium, 2010, 41, 1867.	0.1	3
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