Liang-Sheng Liao

List of Publications by Year
in descending order

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		6606	14736
449	23,428	79	127
papers	citations	h-index	g-index

453	453	453	16086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. Nature Nanotechnology, 2020, 15, 668-674.	15.6	541
2	Highly efficient luminescence from space-confined charge-transfer emitters. Nature Materials, 2020, 19, 1332-1338.	13.3	413
3	High-efficiency tandem organic light-emitting diodes. Applied Physics Letters, 2004, 84, 167-169.	1.5	393
4	High Efficiency Near-Infrared and Semitransparent Non-Fullerene Acceptor Organic Photovoltaic Cells. Journal of the American Chemical Society, 2017, 139, 17114-17119.	6.6	384
5	Interfacial chemistry of Alq3 and LiF with reactive metals. Journal of Applied Physics, 2001, 89, 2756-2765.	1.1	339
6	Progress of Leadâ€Free Halide Double Perovskites. Advanced Energy Materials, 2019, 9, 1803150.	10.2	322
7	Controllable Perovskite Crystallization by Water Additive for Highâ€Performance Solar Cells. Advanced Functional Materials, 2015, 25, 6671-6678.	7.8	321
8	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. Energy and Environmental Science, 2017, 10, 1610-1620.	15.6	272
9	Composition Stoichiometry of Cs₂AgBiBr₆ Films for Highly Efficient Lead-Free Perovskite Solar Cells. Nano Letters, 2019, 19, 2066-2073.	4.5	250
10	One-Pot Microwave Synthesis of Water-Dispersible, Ultraphoto- and pH-Stable, and Highly Fluorescent Silicon Quantum Dots. Journal of the American Chemical Society, 2011, 133, 14192-14195.	6.6	249
11	Tandem Organic Lightâ€Emitting Diode using Hexaazatriphenylene Hexacarbonitrile in the Intermediate Connector. Advanced Materials, 2008, 20, 324-329.	11.1	243
12	Optimization of Lowâ€Dimensional Components of Quasiâ€2D Perovskite Films for Deepâ€Blue Lightâ€Emitting Diodes. Advanced Materials, 2019, 31, e1904319.	11.1	242
13	Highâ€Efficiency Red Organic Lightâ€Emitting Diodes with External Quantum Efficiency Close to 30% Based on a Novel Thermally Activated Delayed Fluorescence Emitter. Advanced Materials, 2019, 31, e1902368.	11.1	238
14	Overcoming the energy gap law in near-infrared OLEDs by excitonâ€“vibration decoupling. Nature Photonics, 2020, 14, 570-577.	15.6	237
15	Over 10% EQE Nearâ€Infrared Electroluminescence Based on a Thermally Activated Delayed Fluorescence Emitter. Advanced Functional Materials, 2017, 27, 1700986.	7.8	236
16	Blue luminescence from Si+â€implanted SiO2 films thermally grown on crystalline silicon. Applied Physics Letters, 1996, 68, 850-852.	1.5	228
17	Dopantâ€Free Spiroâ€Triphenylamine/Fluorene as Holeâ€Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability. Advanced Functional Materials, 2016, 26, 1375-1381.	7.8	226
18	Non-fullerene acceptor with low energy loss and high external quantum efficiency: towards high performance polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 5890-5897.	5.2	219

#	Article	IF	Citations
19	High efficiency hybrid PEDOT:PSS/nanostructured silicon Schottky junction solar cells by doping-free rear contact. Energy and Environmental Science, 2015, 8, 297-302.	15.6	213
20	High Efficiency Pbâ€“In Binary Metal Perovskite Solar Cells. Advanced Materials, 2016, 28, 6695-6703.	11.1	211
21	Allâ€Inorganic Quantumâ€Dot LEDs Based on a Phaseâ€Stabilized Î±â€CsPbI₃ Perovskite. Angewandte Chemie - International Edition, 2021, 60, 16164-16170.	7.2	210
22	Passivated Perovskite Crystallization via gâ€C₃N₄ for Highâ€Performance Solar Cells. Advanced Functional Materials, 2018, 28, 1705875.	7.8	208
23	The Design of Fused Amine/Carbonyl System for Efficient Thermally Activated Delayed Fluorescence: Novel Multiple Resonance Core and Electron Acceptor. Advanced Optical Materials, 2019, 7, 1801536.	3.6	208
24	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 793-798.	8.8	208
25	Copper Salts Doped Spiroâ€OMeTAD for Highâ€Performance Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1601156.	10.2	205
26	Whiteâ€Light Emitting Microtubes of Mixed Organic Chargeâ€Transfer Complexes. Advanced Materials, 2012, 24, 5345-5351.	11.1	201
27	Interface Modification by Ionic Liquid: A Promising Candidate for Indoor Light Harvesting and Stability Improvement of Planar Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1801509.	10.2	184
28	Real-Time Observation of Temperature Rise and Thermal Breakdown Processes in Organic LEDs Using an IR Imaging and Analysis System. Advanced Materials, 2000, 12, 265-269.	11.1	178
29	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. Journal of the American Chemical Society, 2020, 142, 17756-17765.	6.6	174
30	Non-fullerene polymer solar cells based on a selenophene-containing fused-ring acceptor with photovoltaic performance of 8.6%. Energy and Environmental Science, 2016, 9, 3429-3435.	15.6	170
31	Pure Hydrocarbon Hosts for â‰ˆ100% Exciton Harvesting in Both Phosphorescent and Fluorescent Lightâ€Emitting Devices. Advanced Materials, 2015, 27, 4213-4217.	11.1	165
32	Crystalline Liquid-like Behavior: Surface-Induced Secondary Grain Growth of Photovoltaic Perovskite Thin Film. Journal of the American Chemical Society, 2019, 141, 13948-13953.	6.6	163
33	Tailored Phase Transformation of CsPbI₂Br Films by Copper(II) Bromide for High-Performance All-Inorganic Perovskite Solar Cells. Nano Letters, 2019, 19, 5176-5184.	4.5	161
34	Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices. Advanced Materials, 2016, 28, 7620-7625.	11.1	160
35	Long-lived efficient delayed fluorescence organic light-emitting diodes using n-type hosts. Nature Communications, 2017, 8, 2250.	5.8	159
36	White Organic LED with a Luminous Efficacy Exceeding 100 lm W^{â”1} without Light Outâ€Coupling Enhancement Techniques. Advanced Functional Materials, 2017, 27, 1701314.	7.8	157

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37	Competition between Areneâ€“Perfluoroarene and Chargeâ€Transfer Interactions in Organic Lightâ€Harvesting Systems. Angewandte Chemie - International Edition, 2017, 56, 10352-10356.	7.2	152
38	Intense blue emission from porous Î²â€SiC formed on C+â€implanted silicon. Applied Physics Letters, 1995, 66, 2382-2384.	1.5	149
39	Highly Efficient Thermally Activated Delayed Fluorescence via an Unconjugated Donorâ€“Acceptor System Realizing EQE of Over 30%. Advanced Materials, 2020, 32, e2003885.	11.1	148
40	Self-Assembled High Quality CsPbBr₃ Quantum Dot Films toward Highly Efficient Light-Emitting Diodes. ACS Nano, 2018, 12, 9541-9548.	7.3	146
41	Orthogonal Molecular Structure for Better Host Material in Blue Phosphorescence and Larger OLED White Lighting Panel. Advanced Functional Materials, 2015, 25, 645-650.	7.8	140
42	Bulk-quantity GaN nanowires synthesized from hot filament chemical vapor deposition. Chemical Physics Letters, 2000, 327, 263-270.	1.2	133
43	Graphdiyne-modified cross-linkable fullerene as an efficient electron-transporting layer in organometal halide perovskite solar cells. Nano Energy, 2018, 43, 47-54.	8.2	126
44	Induced Crystallization of Perovskites by a Perylene Underlayer for High-Performance Solar Cells. ACS Nano, 2016, 10, 5479-5489.	7.3	125
45	A fused-ring based electron acceptor for efficient non-fullerene polymer solar cells with small HOMO offset. Nano Energy, 2016, 27, 430-438.	8.2	125
46	Tandem Organic Lightâ€Emitting Diodes. Advanced Materials, 2016, 28, 10381-10408.	11.1	124
47	Tin Halide Perovskites: Progress and Challenges. Advanced Energy Materials, 2020, 10, 1902584.	10.2	124
48	Hierarchical self-assembly of organic heterostructure nanowires. Nature Communications, 2019, 10, 3839.	5.8	123
49	Perovskite Grains Embraced in a Soft Fullerene Network Make Highly Efficient Flexible Solar Cells with Superior Mechanical Stability. Advanced Materials, 2019, 31, e1901519.	11.1	123
50	A room-temperature CuAlO₂hole interfacial layer for efficient and stable planar perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 1326-1335.	5.2	122
51	Selective Growth of Dual-Color-Emitting Heterogeneous Microdumbbells Composed of Organic Charge-Transfer Complexes. Journal of the American Chemical Society, 2013, 135, 3744-3747.	6.6	121
52	General Mild Reaction Creates Highly Luminescent Organic-Ligand-Lacking Halide Perovskite Nanocrystals for Efficient Light-Emitting Diodes. Journal of the American Chemical Society, 2019, 141, 15423-15432.	6.6	121
53	2D Organic Photonics: An Asymmetric Optical Waveguide in Selfâ€Assembled Halogenâ€Bonded Cocrystals. Angewandte Chemie - International Edition, 2018, 57, 11300-11304.	7.2	118
54	Planar perovskite solar cells with 15.75% power conversion efficiency by cathode and anode interfacial modification. Journal of Materials Chemistry A, 2015, 3, 13533-13539.	5.2	116

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55	Thin Î²-SiC nanorods and their field emission properties. Chemical Physics Letters, 2000, 318, 58-62.	1.2	114
56	Improved Hole Interfacial Layer for Planar Perovskite Solar Cells with Efficiency Exceeding 15%. ACS Applied Materials & Interfaces, 2015, 7, 9645-9651.	4.0	114
57	High-efficiency organic light-emitting diodes with exciplex hosts. Journal of Materials Chemistry C, 2019, 7, 11329-11360.	2.7	114
58	Chelating-agent-assisted control of CsPbBr3 quantum well growth enables stable blue perovskite emitters. Nature Communications, 2020, 11, 3674.	5.8	112
59	Plasmon Resonance Enhanced Optical Absorption in Inverted Polymer/Fullerene Solar Cells with Metal Nanoparticle-Doped Solution-Processable TiO₂ Layer. ACS Applied Materials & Interfaces, 2013, 5, 2935-2942.	4.0	111
60	Polarized Ferroelectric Polymers for Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2019, 31, e1902222.	11.1	109
61	Delayed Fluorescence Emitter Enables Near 17% Efficiency Ternary Organic Solar Cells with Enhanced Storage Stability and Reduced Recombination Energy Loss. Advanced Functional Materials, 2020, 30, 1909837.	7.8	108
62	A solution-processed bathocuproine cathode interfacial layer for high-performance bromineâ€“iodine perovskite solar cells. Physical Chemistry Chemical Physics, 2015, 17, 26653-26658.	1.3	107
63	Pbâ€“Snâ€“Cu Ternary Organometallic Halide Perovskite Solar Cells. Advanced Materials, 2018, 30, e1800258.	11.1	106
64	Enhanced Light Utilization in Semitransparent Organic Photovoltaics Using an Optical Outcoupling Architecture. Advanced Materials, 2019, 31, e1903173.	11.1	105
65	Competition between Areneâ€“Perfluoroarene and Chargeâ€Transfer Interactions in Organic Lightâ€Harvesting Systems. Angewandte Chemie, 2017, 129, 10488-10492.	1.6	104
66	Synergistic Effect of Dual Ligands on Stable Blue Quasiâ€2D Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1908339.	7.8	103
67	Heterojunction with Organic Thin Layers on Silicon for Record Efficiency Hybrid Solar Cells. Advanced Energy Materials, 2014, 4, 1300923.	10.2	100
68	Solutionâ€Processed Extremely Efficient Multicolor Perovskite Lightâ€Emitting Diodes Utilizing Doped Electron Transport Layer. Advanced Functional Materials, 2017, 27, 1606874.	7.8	96
69	C1â€Linked Spirobifluorene Dimers: Pure Hydrocarbon Hosts for Highâ€Performance Blue Phosphorescent OLEDs. Angewandte Chemie - International Edition, 2019, 58, 3848-3853.	7.2	95
70	Highly efficient phosphorescent organic light-emitting diodes using a homoleptic iridium(III) complex as a sky-blue dopant. Organic Electronics, 2013, 14, 2596-2601.	1.4	93
71	Largeâ€Scale Green Synthesis of Fluorescent Carbon Nanodots and Their Use in Optics Applications. Advanced Optical Materials, 2015, 3, 103-111.	3.6	93
72	Holeâ€Transporting Materials Incorporating Carbazole into Spiroâ€Core for Highly Efficient Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1807094.	7.8	93

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73	Research Progress of Intramolecular Ï€â€Stacked Small Molecules for Device Applications. Advanced Materials, 2022, 34, e2104125.	11.1	93
74	Highly Efficient Deep-Blue Electroluminescence from a Charge-Transfer Emitter with Stable Donor Skeleton. ACS Applied Materials & Interfaces, 2017, 9, 7331-7338.	4.0	91
75	Indoor Thinâ€Film Photovoltaics: Progress and Challenges. Advanced Energy Materials, 2020, 10, 2000641.	10.2	89
76	Intramolecularâ€Locked High Efficiency Ultrapure Violetâ€Blue (CIEâ€y <0.046) Thermally Activated Delayed Fluorescence Emitters Exhibiting Amplified Spontaneous Emission. Advanced Functional Materials, 2021, 31, 2009488.	7.8	88
77	Sputter deposition of cathodes in organic light emitting diodes. Journal of Applied Physics, 1999, 86, 4607-4612.	1.1	85
78	Thermally Activated Delayed Fluorescence Material as Host with Novel Spiroâ€Based Skeleton for High Power Efficiency and Low Rollâ€Off Blue and White Phosphorescent Devices. Advanced Functional Materials, 2016, 26, 7929-7936.	7.8	84
79	Ion-beam-induced surface damages on tris-(8-hydroxyquinoline) aluminum. Applied Physics Letters, 1999, 75, 1619-1621.	1.5	83
80	Design and Synthesis of Pyrimidine-Based Iridium(III) Complexes with Horizontal Orientation for Orange and White Phosphorescent OLEDs. ACS Applied Materials & Interfaces, 2015, 7, 11007-11014.	4.0	83
81	Steric Modulation of Spiro Structure for Highly Efficient Multiple Resonance Emitters. Angewandte Chemie - International Edition, 2022, 61, .	7.2	83
82	Enhanced hole injection in a bilayer vacuum-deposited organic light-emitting device using a p-type doped silicon anode. Applied Physics Letters, 1999, 74, 609-611.	1.5	82
83	In Situ Inorganic Ligand Replenishment Enables Bandgap Stability in Mixedâ€Halide Perovskite Quantum Dot Solids. Advanced Materials, 2022, 34, e2200854.	11.1	82
84	Vacuum-evaporated all-inorganic cesium lead bromine perovskites for high-performance light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 8144-8149.	2.7	79
85	Multiâ€Layer Ï€â€Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. Angewandte Chemie - International Edition, 2021, 60, 5213-5219.	7.2	79
86	Electronic structure and energy band gap of poly (9,9-dioctylfluorene) investigated by photoelectron spectroscopy. Applied Physics Letters, 2000, 76, 3582-3584.	1.5	77
87	A simple method for fabricating pâ€“n junction photocatalyst CuFe2O4/Bi4Ti3O12 and its photocatalytic activity. Materials Chemistry and Physics, 2014, 143, 952-962.	2.0	77
88	Charge-Transfer Emission of Mixed Organic Cocrystal Microtubes over the Whole Composition Range. Chemistry of Materials, 2015, 27, 1157-1163.	3.2	77
89	Highly Simplified Tandem Organic Light-Emitting Devices Incorporating a Green Phosphorescence Ultrathin Emitter within a Novel Interface Exciplex for High Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 10955-10962.	4.0	77
90	Efficient and Spectrally Stable Blue Perovskite Lightâ€Emitting Diodes Employing a Cationic Ï€â€Conjugated Polymer. Advanced Materials, 2021, 33, e2103640.	11.1	77

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91	Fully Bridged Triphenylamine Derivatives as Color-Tunable Thermally Activated Delayed Fluorescence Emitters. Organic Letters, 2021, 23, 958-962.	2.4	76
92	Inverted planar NH₂CHî€NH₂PbI₃ perovskite solar cells with 13.56% efficiency via low temperature processing. Physical Chemistry Chemical Physics, 2015, 17, 19745-19750.	1.3	74
93	Electronic structure of silicon nanowires:â€ƒA photoemission and x-ray absorption study. Physical Review B, 2000, 61, 8298-8305.	1.1	72
94	Doped Copper Phthalocyanine via an Aqueous Solution Process for Normal and Inverted Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1701688.	10.2	71
95	Hierarchical Selfâ€Assembly of Organic Core/Multiâ€Shell Microwires for Trichromatic Whiteâ€Light Sources. Advanced Materials, 2021, 33, e2102719.	11.1	71
96	Enhanced crystallization and stability of perovskites by a cross-linkable fullerene for high-performance solar cells. Journal of Materials Chemistry A, 2016, 4, 15088-15094.	5.2	70
97	Flower-like MoS₂ nanocrystals: a powerful sorbent of Li⁺ in the Spiro-OMeTAD layer for highly efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 3655-3663.	5.2	70
98	Aqueous solution-processed MoO3 as an effective interfacial layer in polymer/fullerene based organic solar cells. Organic Electronics, 2013, 14, 657-664.	1.4	67
99	Highly efficient single-layer organic light-emitting devices based on a bipolar pyrazine/carbazole hybrid host material. Journal of Materials Chemistry C, 2014, 2, 2488-2495.	2.7	67
100	Through Space Charge Transfer for Efficient Skyâ€Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. Advanced Optical Materials, 2020, 8, 1901150.	3.6	67
101	N-Type Doping of Fullerenes for Planar Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 875-882.	8.8	66
102	Cascaded Excitedâ€State Intramolecular Proton Transfer Towards Nearâ€Infrared Organic Lasers Beyond 850â€…nm. Angewandte Chemie - International Edition, 2021, 60, 9114-9119.	7.2	66
103	Doped Chargeâ€Transporting Layers in Planar Perovskite Solar Cells. Advanced Optical Materials, 2018, 6, 1800276.	3.6	65
104	Dâ€“Ï€â€“A structured porphyrins for efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 10008.	5.2	64
105	Near-Infrared Organic Single-Crystal Nanolaser Arrays Activated by Excited-State Intramolecular Proton Transfer. Matter, 2020, 2, 1233-1243.	5.0	64
106	Spiro Compounds for Organic Light-Emitting Diodes. Accounts of Materials Research, 2021, 2, 1261-1271.	5.9	64
107	Bipolar host materials for high efficiency phosphorescent organic light emitting diodes: tuning the HOMO/LUMO levels without reducing the triplet energy in a linear system. Journal of Materials Chemistry C, 2013, 1, 8177.	2.7	63
108	Small Moleculeâ€“Polymer Composite Hole-Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 13240-13246.	4.0	62

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109	Tilted Spiroâ€Type Thermally Activated Delayed Fluorescence Host for â‰ˆ100% Exciton Harvesting in Red Phosphorescent Electronics with Ultralow Doping Ratio. Advanced Functional Materials, 2018, 28, 1706228.	7.8	62
110	Highly Luminescent Waterâ€Dispersible Silicon Nanowires for Longâ€Term Immunofluorescent Cellular Imaging. Angewandte Chemie - International Edition, 2011, 50, 3080-3083.	7.2	60
111	Segregated Array Tailoring Chargeâ€Transfer Degree of Organic Cocrystal for the Efficient Nearâ€Infrared Emission beyond 760Ânm. Advanced Materials, 2022, 34, e2107169.	11.1	60
112	Deepâ€Red/Nearâ€Infrared Electroluminescence from Singleâ€Component Chargeâ€Transfer Complex via Thermally Activated Delayed Fluorescence Channel. Advanced Functional Materials, 2019, 29, 1903112.	7.8	59
113	Lycopeneâ€Based Bionic Membrane for Stable Perovskite Photovoltaics. Advanced Functional Materials, 2021, 31, 2011242.	7.8	59
114	De novo design of Dâ€“Ïƒâ€“A molecules as universal hosts for monochrome and white phosphorescent organic light-emitting diodes. Chemical Science, 2018, 9, 4062-4070.	3.7	58
115	Evolution of pure hydrocarbon hosts: simpler structure, higher performance and universal application in RGB phosphorescent organic light-emitting diodes. Chemical Science, 2020, 11, 4887-4894.	3.7	58
116	Two-Dimensional Organic Semiconductor Crystals for Photonics Applications. ACS Applied Nano Materials, 2020, 3, 1080-1097.	2.4	58
117	Blue-, green-, and red-light emission from Si+-implanted thermal SiO2 films on crystalline silicon. Journal of Luminescence, 1996, 68, 199-204.	1.5	57
118	High-efficiency quantum dot light-emitting diodes employing lithium salt doped poly(9-vinlycarbazole) as a hole-transporting layer. Journal of Materials Chemistry C, 2017, 5, 5372-5377.	2.7	57
119	Origin of enhanced electrical and conducting properties in pentacene films doped by molybdenum trioxide. Organic Electronics, 2013, 14, 2698-2704.	1.4	56
120	A novel intermediate connector with improved charge generation and separation for large-area tandem white organic lighting devices. Journal of Materials Chemistry C, 2014, 2, 10403-10408.	2.7	56
121	Alleviating Efficiency Roll-Off of Hybrid Single-Emitting Layer WOLED Utilizing Bipolar TADF Material as Host and Emitter. ACS Applied Materials & Interfaces, 2019, 11, 2197-2204.	4.0	56
122	Nearâ€Infrared Electroluminescence beyond 800â€...nm with High Efficiency and Radiance from Anthracene Cored Emitters. Angewandte Chemie - International Edition, 2020, 59, 21578-21584.	7.2	56
123	Clean surface transfer of graphene films via an effective sandwich method for organic light-emitting diode applications. Journal of Materials Chemistry C, 2014, 2, 201-207.	2.7	55
124	Host to Guest Energy Transfer Mechanism in Phosphorescent and Fluorescent Organic Light-Emitting Devices Utilizing Exciplex-Forming Hosts. Journal of Physical Chemistry C, 2014, 118, 24006-24012.	1.5	55
125	Emissive Osmium(II) Complexes with Tetradentate Bis(pyridylpyrazolate) Chelates. Inorganic Chemistry, 2013, 52, 5867-5875.	1.9	54
126	Asymmetric Design of Bipolar Host Materials with Novel 1,2,4-Oxadiazole Unit in Blue Phosphorescent Device. Organic Letters, 2014, 16, 1622-1625.	2.4	54

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127	Recent advances in electron acceptors with ladder-type backbone for organic solar cells. Journal of Materials Chemistry A, 2018, 6, 17256-17287.	5.2	54
128	Organic Lasers Harnessing Excited State Intramolecular Proton Transfer Process. ACS Photonics, 2020, 7, 1355-1366.	3.2	54
129	Ultraâ€Bright and Stable Pure Blue Lightâ€Emitting Diode from O, N Coâ€Doped Carbon Dots. Laser and Photonics Reviews, 2021, 15, 2000412.	4.4	54
130	Comparative studies on the inorganic and organic p-type dopants in organic light-emitting diodes with enhanced hole injection. Applied Physics Letters, 2013, 102, .	1.5	52
131	Recent Advances in 1D Organic Solidâ€State Lasers. Advanced Functional Materials, 2019, 29, 1902981.	7.8	52
132	Highly Efficient Blue Phosphorescent Organic Light-Emitting Diodes Employing a Host Material with Small Bandgap. ACS Applied Materials & Interfaces, 2016, 8, 16186-16191.	4.0	51
133	Donorâ^Ïƒâ€“Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. Organic Letters, 2017, 19, 3155-3158.	2.4	51
134	Highâ€Quality White Organic Lightâ€Emitting Diodes Composed of Binary Emitters with Color Rendering Index Exceeding 80 by Utilizing Color Remedy Strategy. Advanced Functional Materials, 2019, 29, 1807541.	7.8	51
135	Spiro-annulated triarylamine-based hosts incorporating dibenzothiophene for highly efficient single-emitting layer white phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 6575.	2.7	50
136	Polymer as an Additive in the Emitting Layer for High-Performance Quantum Dot Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 20239-20246.	4.0	50
137	A simple systematic design of phenylcarbazole derivatives for host materials to high-efficiency phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 3967.	2.7	49
138	Control of Conjugation Degree via Position Engineering to Highly Efficient Phosphorescent Host Materials. Organic Letters, 2014, 16, 3748-3751.	2.4	49
139	Optical waveguides based on one-dimensional organic crystals. PhotoniX, 2021, 2, .	5.5	49
140	Highly Simplified Reddish Orange Phosphorescent Organic Light-Emitting Diodes Incorporating a Novel Carrier- and Exciton-Confining Spiro-Exciplex-Forming Host for Reduced Efficiency Roll-off. ACS Applied Materials & Interfaces, 2017, 9, 2701-2710.	4.0	48
141	High-Efficiency White Organic Light-Emitting Diodes Integrating Gradient Exciplex Allocation System and Novel D-Spiro-A Materials. ACS Applied Materials & Interfaces, 2018, 10, 29840-29847.	4.0	48
142	2D Organic Photonics: An Asymmetric Optical Waveguide in Selfâ€Assembled Halogenâ€Bonded Cocrystals. Angewandte Chemie, 2018, 130, 11470-11474.	1.6	47
143	meta-Linked spirobifluorene/phosphine oxide hybrids as host materials for deep blue phosphorescent organic light-emitting diodes. Organic Electronics, 2013, 14, 1924-1930.	1.4	46
144	Whiteâ€Emissive Selfâ€Assembled Organic Microcrystals. Small, 2017, 13, 1604110.	5.2	46

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145	Efficient Nearâ€Infrared Emission by Adjusting the Guestâ€“Host Interactions in Thermally Activated Delayed Fluorescence Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2018, 28, 1802597.	7.8	46
146	Recent Advances in Organic Whisperingâ€Gallery Mode Lasers. Laser and Photonics Reviews, 2020, 14, 2000257.	4.4	46
147	Organic heterostructures composed of one- and two-dimensional polymorphs for photonic applications. Science China Chemistry, 2020, 63, 1477-1482.	4.2	46
148	Effect of deposition rate on the morphology, chemistry and electroluminescence of tris-(8-hydroxyqiunoline) aluminum films. Chemical Physics Letters, 2000, 319, 418-422.	1.2	45
149	Interfacial engineering for highly efficient quasi-two dimensional organicâ€“inorganic hybrid perovskite light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 4344-4349.	2.7	45
150	Organic superstructure microwires with hierarchical spatial organisation. Nature Communications, 2021, 12, 2252.	5.8	45
151	Bubble formation in organic light-emitting diodes. Journal of Applied Physics, 2000, 88, 2386-2390.	1.1	44
152	Isomeric Effects of Solution Processed Ladderâ€Type Nonâ€Fullerene Electron Acceptors. Solar Rrl, 2017, 1, 1700107.	3.1	44
153	A narrowband blue circularly polarized thermally activated delayed fluorescence emitter with a hetero-helicene structure. Chemical Communications, 2021, 57, 11041-11044.	2.2	44
154	Coherence characteristics of electrically excited tandem organic light-emitting diodes. Optics Letters, 2005, 30, 3072.	1.7	43
155	Rational Design of Dibenzothiophene-Based Host Materials for PHOLEDs. Journal of Physical Chemistry C, 2014, 118, 2375-2384.	1.5	43
156	Organic Nanophotonics: Self-Assembled Single-Crystalline Homo-/Heterostructures for Optical Waveguides. ACS Photonics, 2018, 5, 3763-3771.	3.2	43
157	Super-Stacking Self-Assembly of Organic Topological Heterostructures. CCS Chemistry, 2021, 3, 413-424.	4.6	43
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