Chuluo Yang

List of Publications by Year
in descending order

398 papers	24,163 citations	5876 81 h-index	11899 134 g-index
403 all docs	403 docs citations	403 times ranked	11174 citing authors

#	Article	IF	Citations
1	Organic host materials for phosphorescent organic light-emitting diodes. Chemical Society Reviews, 2011, 40, 2943.	18.7	1,123
2	Blue fluorescent emitters: design tactics and applications in organic light-emitting diodes. Chemical Society Reviews, 2013, 42, 4963.	18.7	748
3	Achieving Nearly 30% External Quantum Efficiency for Orangeâ€“Red Organic Light Emitting Diodes by Employing Thermally Activated Delayed Fluorescence Emitters Composed of 1,8â€Naphthalimideâ€Acridine Hybrids. Advanced Materials, 2018, 30, 1704961.	11.1	488
4	A Simple Carbazole/Oxadiazole Hybrid Molecule: An Excellent Bipolar Host for Green and Red Phosphorescent OLEDs. Angewandte Chemie - International Edition, 2008, 47, 8104-8107.	7.2	425
5	Yellow/orange emissive heavy-metal complexes as phosphors in monochromatic and white organic light-emitting devices. Chemical Society Reviews, 2014, 43, 6439-6469.	18.7	401
6	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. Joule, 2020, 4, 1236-1247.	11.7	344
7	An AIEgen-based 3D covalent organic framework for white light-emitting diodes. Nature Communications, 2018, 9, 5234.	5.8	293
8	Precisely Controlling the Position of Bromine on the End Group Enables Wellâ€Regular Polymer Acceptors for Allâ€Polymer Solar Cells with Efficiencies over 15%. Advanced Materials, 2020, 32, e2005942.	11.1	282
9	A Layer-by-Layer Architecture for Printable Organic Solar Cells Overcoming the Scaling Lag of Module Efficiency. Joule, 2020, 4, 407-419.	11.7	272
10	Optimized Fibril Network Morphology by Precise Sideâ€Chain Engineering to Achieve Highâ€Performance Bulkâ€Heterojunction Organic Solar Cells. Advanced Materials, 2018, 30, e1707353.	11.1	271
11	Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. Energy and Environmental Science, 2018, 11, 3275-3282.	15.6	261
12	Fineâ€Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54%. Advanced Materials, 2018, 30, 1706124.	11.1	253
13	Asymmetrical Ladderâ€Type Donorâ€Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for Highâ€Performance Nonfullerene Polymer Solar Cells. Advanced Materials, 2018, 30, e1800052.	11.1	252
14	Alloy-like ternary polymer solar cells with over 17.2% efficiency. Science Bulletin, 2020, 65, 538-545.	4.3	252
15	Quenchingâ€Resistant Multiresonance TADF Emitter Realizes 40% External Quantum Efficiency in Narrowband Electroluminescence at High Doping Level. Advanced Materials, 2022, 34, e2106954.	11.1	235
16	Bipolar Tetraarylsilanes as Universal Hosts for Blue, Green, Orange, and White Electrophosphorescence with High Efficiency and Low Efficiency Rollâ€Off. Advanced Functional Materials, 2011, 21, 1168-1178.	7.8	229
17	Ternary nonfullerene polymer solar cells with efficiency >13.7% by integrating the advantages of the materials and two binary cells. Energy and Environmental Science, 2018, 11, 2134-2141.	15.6	223
18	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. Energy and Environmental Science, 2019, 12, 2529-2536.	15.6	213

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19	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. Energy and Environmental Science, 2018, 11, 841-849.	15.6	210
20	Inheriting the Characteristics of TADF Small Molecule by Sideâ€Chain Engineering Strategy to Enable Bluishâ€Green Polymers with High PLQYs up to 74% and External Quantum Efficiency over 16% in Lightâ€Emitting Diodes. Advanced Materials, 2017, 29, 1604223.	11.1	207
21	Design Strategy for Solutionâ€Processable Thermally Activated Delayed Fluorescence Emitters and Their Applications in Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2018, 6, 1800568.	3.6	199
22	A Novel Thiophene-Fused Ending Group Enabling an Excellent Small Molecule Acceptor for High-Performance Fullerene-Free Polymer Solar Cells with 11.8% Efficiency. Solar Rrl, 2017, 1, 1700044.	3.1	198
23	Over 14.5% efficiency and 71.6% fill factor of ternary organic solar cells with 300 nm thick active layers. Energy and Environmental Science, 2020, 13, 958-967.	15.6	198
24	Simultaneous enhanced efficiency and thermal stability in organic solar cells from a polymer acceptor additive. Nature Communications, 2020, 11, 1218.	5.8	197
25	High-efficiency and air stable fullerene-free ternary organic solar cells. Nano Energy, 2018, 45, 177-183.	8.2	193
26	A universal layer-by-layer solution-processing approach for efficient non-fullerene organic solar cells. Energy and Environmental Science, 2019, 12, 384-395.	15.6	193
27	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. ACS Energy Letters, 2020, 5, 2711-2720.	8.8	188
28	Dendronized delayed fluorescence emitters for non-doped, solution-processed organic light-emitting diodes with high efficiency and low efficiency roll-off simultaneously: two parallel emissive channels. Chemical Science, 2016, 7, 5441-5447.	3.7	180
29	Semitransparent ternary nonfullerene polymer solar cells exhibiting 9.40% efficiency and 24.6% average visible transmittance. Nano Energy, 2019, 55, 424-432.	8.2	179
30	Realizing 22.5% External Quantum Efficiency for Solutionâ€Processed Thermally Activated Delayedâ€Fluorescence OLEDs with Red Emission at 622 nm via a Synergistic Strategy of Molecular Engineering and Host Selection. Advanced Materials, 2019, 31, e1901404.	11.1	175
31	Naphthothiadiazoleâ€Based Nearâ€Infrared Emitter with a Photoluminescence Quantum Yield of 60% in Neat Film and External Quantum Efficiencies of up to 3.9% in Nondoped OLEDs. Advanced Functional Materials, 2017, 27, 1606384.	7.8	173
32	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. Advanced Energy Materials, 2018, 8, 1801968.	10.2	167
33	Creating a thermally activated delayed fluorescence channel in a single polymer system to enhance exciton utilization efficiency for bluish-green electroluminescence. Chemical Communications, 2016, 52, 2292-2295.	2.2	160
34	Achieving 21% External Quantum Efficiency for Nondoped Solutionâ€Processed Skyâ€Blue Thermally Activated Delayed Fluorescence OLEDs by Means of Multiâ€(Donor/Acceptor) Emitter with Throughâ€Space/â€Bond Charge Transfer. Advanced Science, 2020, 7, 1902087.	5.6	160
35	Multifunctional Triphenylamine/Oxadiazole Hybrid as Host and Excitonâ€Blocking Material: High Efficiency Green Phosphorescent OLEDs Using Easily Available and Common Materials. Advanced Functional Materials, 2010, 20, 2923-2929.	7.8	159
36	Peripheral Decoration of Multiâ€Resonance Molecules as a Versatile Approach for Simultaneous Longâ€Wavelength and Narrowband Emission. Advanced Functional Materials, 2021, 31, 2102017.	7.8	157

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37	Highâ€Performance Hybrid White Organic Lightâ€Emitting Diodes with Superior Efficiency/Color Rendering Index/Color Stability and Low Efficiency Rollâ€Off Based on a Blue Thermally Activated Delayed Fluorescent Emitter. Advanced Functional Materials, 2016, 26, 3306-3313.	7.8	154
38	De Novo Design of Excited-State Intramolecular Proton Transfer Emitters via a Thermally Activated Delayed Fluorescence Channel. Journal of the American Chemical Society, 2018, 140, 8877-8886.	6.6	153
39	Multi-carbazole encapsulation as a simple strategy for the construction of solution-processed, non-doped thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2016, 4, 2442-2446.	2.7	150
40	De Novo Design of Siliconâ€Bridged Molecule Towards a Bipolar Host: Allâ€Phosphor White Organic Lightâ€Emitting Devices Exhibiting High Efficiency and Low Efficiency Rollâ€Off. Advanced Materials, 2010, 22, 5370-5373.	11.1	149
41	Energy level modulation of non-fullerene acceptors enables efficient organic solar cells with small energy loss. Journal of Materials Chemistry A, 2018, 6, 2468-2475.	5.2	145
42	Reduced Energy Loss Enabled by a Chlorinated Thiopheneâ€Fused Endingâ€Group Small Molecular Acceptor for Efficient Nonfullerene Organic Solar Cells with 13.6% Efficiency. Advanced Energy Materials, 2019, 9, 1900041.	10.2	144
43	Highly Efficient Deepâ€Blue Electrophosphorescence Enabled by Solutionâ€Processed Bipolar Tetraarylsilane Host with Both a High Triplet Energy and a Highâ€Lying HOMO Level. Advanced Materials, 2011, 23, 4956-4959.	11.1	142
44	Phosphoryl/Sulfonyl-Substituted Iridium Complexes as Blue Phosphorescent Emitters for Single-Layer Blue and White Organic Light-Emitting Diodes by Solution Process. Chemistry of Materials, 2012, 24, 4581-4587.	3.2	138
45	Boosting reverse intersystem crossing by increasing donors in triarylboron/phenoxazine hybrids: TADF emitters for high-performance solution-processed OLEDs. Journal of Materials Chemistry C, 2016, 4, 4402-4407.	2.7	136
46	Molecular design to regulate the photophysical properties of multifunctional TADF emitters towards high-performance TADF-based OLEDs with EQEs up to 22.4% and small efficiency roll-offs. Chemical Science, 2018, 9, 1385-1391.	3.7	132
47	Simultaneous dual-colour tracking lipid droplets and lysosomes dynamics using a fluorescent probe. Chemical Science, 2019, 10, 2342-2348.	3.7	132
48	Highâ€Performance Narrowband Pureâ€Red OLEDs with External Quantum Efficiencies up to 36.1% and Ultralow Efficiency Rollâ€Off. Advanced Materials, 2022, 34, e2201442.	11.1	131
49	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. Journal of Materials Chemistry A, 2019, 7, 7843-7851.	5.2	130
50	A Red Thermally Activated Delayed Fluorescence Emitter Simultaneously Having High Photoluminescence Quantum Efficiency and Preferentially Horizontal Emitting Dipole Orientation. Advanced Functional Materials, 2020, 30, 1908839.	7.8	129
51	Altering alkyl-chains branching positions for boosting the performance of small-molecule acceptors for highly efficient nonfullerene organic solar cells. Science China Chemistry, 2020, 63, 361-369.	4.2	128
52	A Simple Organic Molecule Realizing Simultaneous TADF, RTP, AIE, and Mechanoluminescence: Understanding the Mechanism Behind the Multifunctional Emitter. Angewandte Chemie - International Edition, 2019, 58, 17651-17655.	7.2	124
53	Near-Infrared Polymer Light-Emitting Diodes with High Efficiency and Low Efficiency Roll-off by Using Solution-Processed Iridium(III) Phosphors. Chemistry of Materials, 2015, 27, 96-104.	3.2	122
54	Heavy-atom effect promotes multi-resonance thermally activated delayed fluorescence. Chemical Engineering Journal, 2021, 426, 131169.	6.6	122

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55	Molecular design of host materials based on triphenylamine/oxadiazole hybrids for excellent deep-red phosphorescent organic light-emitting diodes. Journal of Materials Chemistry, 2010, 20, 1759.	6.7	120
56	Tuning the Photoinduced Electron Transfer in a Zrâ€MOF: Toward Solidâ€State Fluorescent Molecular Switch and Turnâ€On Sensor. Advanced Materials, 2018, 30, e1802329.	11.1	120
57	Sideâ€Chain Impact on Molecular Orientation of Organic Semiconductor Acceptors: High Performance Nonfullerene Polymer Solar Cells with Thick Active Layer over 400 nm. Advanced Energy Materials, 2018, 8, 1800856.	10.2	118
58	Teaching an old acceptor new tricks: rationally employing 2,1,3-benzothiadiazole as input to design a highly efficient red thermally activated delayed fluorescence emitter. Journal of Materials Chemistry C, 2017, 5, 1363-1368.	2.7	116
59	Unexpected Propellerâ€Like Hexakis(fluorenâ€2â€yl)benzene Cores for Sixâ€Arm Starâ€Shaped Oligofluorenes: Highly Efficient Deepâ€Blue Fluorescent Emitters and Good Holeâ€Transporting Materials. Advanced Functional Materials, 2013, 23, 1781-1788.	7.8	115
60	Faceâ€toâ€Face Orientation of Quasiplanar Donor and Acceptor Enables Highly Efficient Intramolecular Exciplex Fluorescence. Angewandte Chemie - International Edition, 2021, 60, 3994-3998.	7.2	112
61	Low Turn-on Voltage, High-Power-Efficiency, Solution-Processed Deep-Blue Organic Light-Emitting Diodes Based on Starburst Oligofluorenes with Diphenylamine End-Capper to Enhance the HOMO Level. Chemistry of Materials, 2014, 26, 3074-3083.	3.2	111
62	Optimizing Optoelectronic Properties of Pyrimidineâ€Based TADF Emitters by Changing the Substituent for Organic Lightâ€Emitting Diodes with External Quantum Efficiency Close to 25â€‰% and Slow Efficiency Rollâ€Off. Chemistry - A European Journal, 2016, 22, 10860-10866.	1.7	111
63	Organic emitter integrating aggregation-induced delayed fluorescence and room-temperature phosphorescence characteristics, and its application in time-resolved luminescence imaging. Chemical Science, 2018, 9, 6150-6155.	3.7	111
64	Extending the Ïâ€Skeleton of Multiâ€Resonance TADF Materials towards Highâ€Efficiency Narrowband Deepâ€Blue Emission. Angewandte Chemie - International Edition, 2022, 61, .	7.2	110
65	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. Journal of Materials Chemistry A, 2019, 7, 25088-25101.	5.2	107
66	Simple CBP isomers with high triplet energies for highly efficient blue electrophosphorescence. Journal of Materials Chemistry, 2012, 22, 2894-2899.	6.7	106
67	Inâ€…Situ Solidâ€State Generation of (BN)‹sub›2‹/sub›â€Pyrenes and Electroluminescent Devices. Angewandte Chemie - International Edition, 2015, 54, 15074-15078.	7.2	105
68	Achieving a balance between small singletâ€“triplet energy splitting and high fluorescence radiative rate in a quinoxaline-based orange-red thermally activated delayed fluorescence emitter. Chemical Communications, 2016, 52, 11012-11015.	2.2	105
69	Unconjugated Sideâ€Chain Engineering Enables Small Molecular Acceptors for Highly Efficient Nonâ€Fullerene Organic Solar Cells: Insights into the Fineâ€Tuning of Acceptor Properties and Micromorphology. Advanced Functional Materials, 2019, 29, 1902155.	7.8	105
70	Realizing Highly Efficient Solution-Processed Homojunction-Like Sky-Blue OLEDs by Using Thermally Activated Delayed Fluorescent Emitters Featuring an Aggregation-Induced Emission Property. Journal of Physical Chemistry Letters, 2018, 9, 1547-1553.	2.1	103
71	Altering the Positions of Chlorine and Bromine Substitution on the End Group Enables Highâ€Performance Acceptor and Efficient Organic Solar Cells. Advanced Energy Materials, 2020, 10, 2002649.	10.2	103
72	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. ACS Energy Letters, 2018, 3, 1760-1768.	8.8	102

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73	Self-Assembly of a Highly Emissive Pure Organic Imine-Based Stack for Electroluminescence and Cell Imaging. Journal of the American Chemical Society, 2019, 141, 4704-4710.	6.6	101
74	Bright white electroluminescence from a single polymer containing a thermally activated delayed fluorescence unit and a solution-processed orange OLED approaching 20% external quantum efficiency. Journal of Materials Chemistry C, 2017, 5, 10715-10720.	2.7	96
75	Precise Exciton Allocation for Highly Efficient White Organic Lightâ€Emitting Diodes with Low Efficiency Rollâ€Off Based on Blue Thermally Activated Delayed Fluorescent Exciplex Emission. Advanced Optical Materials, 2017, 5, 1700415.	3.6	95
76	Novel, highly efficient blue-emitting heteroleptic iridium(iii) complexes based on fluorinated 1,3,4-oxadiazole: tuning to blue by dithiolate ancillary ligands. Chemical Communications, 2007, , 1352.	2.2	94
77	Thickâ€Film Organic Solar Cells Achieving over 11% Efficiency and Nearly 70% Fill Factor at Thickness over 400 nm. Advanced Functional Materials, 2020, 30, 1908336.	7.8	94
78	Organic Thermally Activated Delayed Fluorescence Materials for Timeâ€Resolved Luminescence Imaging and Sensing. Advanced Optical Materials, 2020, 8, 1902187.	3.6	91
79	Triphenylamine Dendronized Iridium(III) Complexes: Robust Synthesis, Highly Efficient Nondoped Orange Electrophosphorescence and the Structureâ€“Property Relationship. Chemistry of Materials, 2012, 24, 174-180.	3.2	90
80	Side Group Engineering of Small Molecular Acceptors for Highâ€Performance Fullereneâ€Free Polymer Solar Cells: Thiophene Being Superior to Selenophene. Advanced Functional Materials, 2017, 27, 1702194.	7.8	88
81	Management of Singlet and Triplet Excitons: A Universal Approach to Highâ€Efficiency All Fluorescent WOLEDs with Reduced Efficiency Rollâ€Off Using a Conventional Fluorescent Emitter. Advanced Optical Materials, 2016, 4, 1067-1074.	3.6	84
82	Strategic-tuning of radiative excitons for efficient and stable fluorescent white organic light-emitting diodes. Nature Communications, 2019, 10, 2380.	5.8	84
83	Efficient Solution-Processed Deep-Blue Organic Light-Emitting Diodes Based on Multibranched Oligofluorenes with a Phosphine Oxide Center. Chemistry of Materials, 2013, 25, 3320-3327.	3.2	82
84	Polymorphâ€Dependent Thermally Activated Delayed Fluorescence Emitters: Understanding TADF from a Perspective of Aggregation State. Angewandte Chemie - International Edition, 2020, 59, 9972-9976.	7.2	82
85	Hydrophilic, Redâ€Emitting, and Thermally Activated Delayed Fluorescence Emitter for Timeâ€Resolved Luminescence Imaging by Mitochondrionâ€Induced Aggregation in Living Cells. Advanced Science, 2019, 6, 1801729.	5.6	80
86	Acceptor plane expansion enhances horizontal orientation of thermally activated delayed fluorescence emitters. Science Advances, 2020, 6, .	4.7	80
87	Halogen-induced internal heavy-atom effect shortening the emissive lifetime and improving the fluorescence efficiency of thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2017, 5, 12204-12210.	2.7	79
88	Simple Acridanâ€Based Multiâ€Resonance Structures Enable Highly Efficient Narrowband Green TADF Electroluminescence. Advanced Optical Materials, 2021, 9, 2100825.	3.6	79
89	Nearâ€Infrared Small Molecule Acceptor Enabled Highâ€Performance Nonfullerene Polymer Solar Cells with Over 13% Efficiency. Advanced Functional Materials, 2018, 28, 1803128.	7.8	78
90	Solution-processable highly efficient yellow- and red-emitting phosphorescent organic light emitting devices from a small molecule bipolar host and iridium complexes. Journal of Materials Chemistry, 2008, 18, 4091.	6.7	76

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91	Using Ring-Opening Metathesis Polymerization of Norbornene To Construct Thermally Activated Delayed Fluorescence Polymers: High-Efficiency Blue Polymer Light-Emitting Diodes. Macromolecules, 2018, 51, 1598-1604.	2.2	76
92	Integrating molecular rigidity and chirality into thermally activated delayed fluorescence emitters for highly efficient sky-blue and orange circularly polarized electroluminescence. Materials Horizons, 2021, 8, 547-555.	6.4	76
93	An efficient exciton harvest route for high-performance OLEDs based on aggregation-induced delayed fluorescence. Chemical Communications, 2018, 54, 1379-1382.	2.2	75
94	Designing a Perylene Diimide/Fullerene Hybrid as Effective Electron Transporting Material in Inverted Perovskite Solar Cells with Enhanced Efficiency and Stability. Angewandte Chemie - International Edition, 2019, 58, 8520-8525.	7.2	73
95	Using an Organic Molecule with Low Triplet Energy as a Host in a Highly Efficient Blue Electrophosphorescent Device. Angewandte Chemie - International Edition, 2014, 53, 2147-2151.	7.2	72
96	Stable white electroluminescence from single fluorene-based copolymers: using fluorenone as the green fluorophore and an iridium complex as the red phosphor on the main chain. Journal of Materials Chemistry, 2008, 18, 291-298.	6.7	71
97	Controlling charge balance and exciton recombination by bipolar host in single-layer organic light-emitting diodes. Journal of Applied Physics, 2010, 108, .	1.1	69
98	High Power Efficiency Yellow Phosphorescent OLEDs by Using New Iridium Complexes with Halogen-Substituted 2-Phenylbenzo[d]thiazole Ligands. Journal of Physical Chemistry C, 2013, 117, 19134-19141.	1.5	69
99	Isomerization of Perylene Diimide Based Acceptors Enabling Highâ€Performance Nonfullerene Organic Solar Cells with Excellent Fill Factor. Advanced Science, 2019, 6, 1802065.	5.6	69
100	Tuning the saturated red emission: synthesis, electrochemistry and photophysics of 2-arylquinoline based iridium(iii) complexes and their application in OLEDs. Journal of Materials Chemistry, 2006, 16, 3332.	6.7	68
101	High-Power-Efficiency Blue Electrophosphorescence Enabled by the Synergistic Combination of Phosphine-Oxide-Based Host and Electron-Transporting Materials. Chemistry of Materials, 2014, 26, 1463-1470.	3.2	68
102	Designing an asymmetrical isomer to promote the LUMO energy level and molecular packing of a non-fullerene acceptor for polymer solar cells with 12.6% efficiency. Chemical Science, 2018, 9, 8142-8149.	3.7	67
103	Heteroheptacene-based acceptors with thieno[3,2-b]pyrrole yield high-performance polymer solar cells. National Science Review, 2022, 9, .	4.6	67
104	Efficient small-molecule non-fullerene electron transporting materials for high-performance inverted perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 4443-4448.	5.2	66
105	Subtle Side-Chain Engineering of Random Terpolymers for High-Performance Organic Solar Cells. Chemistry of Materials, 2018, 30, 3294-3300.	3.2	64
106	Ternary polymer solar cells with alloyed non-fullerene acceptor exhibiting 12.99% efficiency and 76.03% fill factor. Nano Energy, 2019, 59, 58-65.	8.2	64
107	Diverse emission properties of transition metal complexes beyond exclusive single phosphorescence and their wide applications. Coordination Chemistry Reviews, 2021, 433, 213755.	9.5	64
108	Efficient deep-blue emitters comprised of an anthracene core and terminal bifunctional groups for nondoped electroluminescence. Journal of Materials Chemistry, 2011, 21, 6409.	6.7	62

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109	Synthesis, structure, electrochemistry, photophysics and electroluminescence of 1,3,4-oxadiazole-based ortho-metalated iridium(III) complexes. Journal of Organometallic Chemistry, 2006, 691, 3519-3530.	0.8	60
110	Diarylmethylene-bridged triphenylamine derivatives encapsulated with fluorene: very high Tg host materials for efficient blue and green phosphorescent OLEDs. Journal of Materials Chemistry, 2010, 20, 3232.	6.7	60
111	Benzo[1,2-b:4,5-bâ€²]dithiophene and Thieno[3,4-c]pyrrole-4,6-dione Based Donor-Ì€-Acceptor Conjugated Polymers for High Performance Solar Cells by Rational Structure Modulation. Macromolecules, 2015, 48, 2948-2957.	2.2	60
112	Semitransparent Circularly Polarized Phosphorescent Organic LightâEmitting Diodes with External Quantum Efficiency over 30% and Dissymmetry Factor Close to 10^{â^'2}. Advanced Functional Materials, 2021, 31, 2102898.	7.8	60
113	Highly efficient solution-processed green and red electrophosphorescent devices enabled by small-molecule bipolar host material. Journal of Materials Chemistry, 2011, 21, 9326.	6.7	59
114	Over 15.7% Efficiency of Ternary Organic Solar Cells by Employing Two Compatible Acceptors with Similar LUMO Levels. Small, 2020, 16, e2000441.	5.2	59
115	Multifunctional Thermally Activated Delayed Fluorescence Emitters and Insight into Multicolorâ€Mechanochromism Promoted by Weak Intraâ€•and Intermolecular Interactions. Advanced Optical Materials, 2019, 7, 1900727.	3.6	58
116	Isomerization Strategy of Nonfullerene Smallâ€Molecule Acceptors for Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2004477.	7.8	58
117	Chiral Multiâ€Resonance TADF Emitters Exhibiting Narrowband Circularly Polarized Electroluminescence with an EQE of 37.2â€‰%. Angewandte Chemie - International Edition, 2022, 61, .	7.2	58
118	Tetraphenylsilane derivatives spiro-annulated by triphenylamine/carbazole with enhanced HOMO energy levels and glass transition temperatures without lowering triplet energy: host materials for efficient blue phosphorescent OLEDs. Journal of Materials Chemistry C, 2013, 1, 463-469.	2.7	57
119	Managing Excitons and Charges for High-Performance Fluorescent White Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 28780-28788.	4.0	57
120	Emitters with a pyridine-3,5-dicarbonitrile core and short delayed fluorescence lifetimes of about 1.5 Î¼s: orange-red TADF-based OLEDs with very slow efficiency roll-offs at high luminance. Journal of Materials Chemistry C, 2018, 6, 6543-6548.	2.7	56
121	Solution-Processed Double-Silicon-Bridged Oxadiazole/Arylamine Hosts for High-Efficiency Blue Electrophosphorescence. Chemistry of Materials, 2012, 24, 3120-3127.	3.2	55
122	Highly Efficient Simpleâ€Structure Blue and Allâ€Phosphor Warmâ€White Phosphorescent Organic Lightâ€Emitting Diodes Enabled by Wideâ€Bandgap Tetraarylsilaneâ€Based Functional Materials. Advanced Functional Materials, 2014, 24, 5710-5718.	7.8	55
123	Efficient Ternary Organic Solar Cells with Two Compatible Nonâ€Fullerene Materials as One Alloyed Acceptor. Small, 2018, 14, e1802983.	5.2	55
124	High-performance n-type thermoelectric composites of acridones with tethered tertiary amines and carbon nanotubes. Journal of Materials Chemistry A, 2018, 6, 20161-20169.	5.2	55
125	High-efficiency all-small-molecule organic solar cells based on an organic molecule donor with an asymmetric thieno[2,3-f] benzofuran unit. Science China Chemistry, 2020, 63, 1246-1255.	4.2	55
126	AIE-active multicolor tunable luminogens: simultaneous mechanochromism and acidochromism with high contrast beyond 100 nm. Materials Chemistry Frontiers, 2020, 4, 2047-2053.	3.2	55

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127	Molecular iodine-mediated formal [2+1+1+1] cycloaddition access to pyrrolo[2,1-a]isoquinolines with DMSO as the methylene source. Chemical Communications, 2018, 54, 11897-11900.	2.2	54
128	Versatile boronâ€based thermally activated delayed fluorescence materials for organic lightâ€emitting diodes. Aggregate, 2022, 3, .	5.2	54
129	Tailoring Optoelectronic Properties of Phenanthrolineâ€Based Thermally Activated Delayed Fluorescence Emitters through Isomer Engineering. Advanced Optical Materials, 2016, 4, 1558-1566.	3.6	53
130	Pure Organic Emitter with Simultaneous Thermally Activated Delayed Fluorescence and Roomâ€Temperature Phosphorescence: Thermalâ€Controlled Triplet Recycling Channels. Advanced Optical Materials, 2017, 5, 1700588.	3.6	53
131	B- and N-embedded color-tunable phosphorescent iridium complexes and Bâ€“N Lewis adducts with intriguing structural and optical changes. Chemical Science, 2019, 10, 3257-3263.	3.7	53
132	Prediction of Oscillator Strength and Transition Dipole Moments with the Nuclear Ensemble Approach for Thermally Activated Delayed Fluorescence Emitters. Journal of Physical Chemistry C, 2019, 123, 10081-10086.	1.5	53
133	Sulfoneâ€Incorporated Multiâ€Resonance TADF Emitter for Highâ€Performance Narrowband Blue OLEDs with EQE of 32%. Advanced Functional Materials, 2022, 32, .	7.8	53
134	Fineâ€Tuning Batch Factors of Polymer Acceptors Enables a Binary Allâ€Polymer Solar Cell with High Efficiency of 16.11%. Advanced Energy Materials, 2022, 12, .	10.2	52
135	Highly efficient single-layer white polymer light-emitting devices employing triphenylamine-based iridium dendritic complexes as orange emissive component. Journal of Materials Chemistry, 2012, 22, 361-366.	6.7	51
136	Deep-red iridium(<scp>iii</scp>) complexes cyclometalated by phenanthridine derivatives for highly efficient solution-processed organic light-emitting diodes. Journal of Materials Chemistry C, 2016, 4, 3492-3498.	2.7	51
137	A Red Fluorescent Emitter with a Simultaneous Hybrid Local and Charge Transfer Excited State and Aggregationâ€Induced Emission for Highâ€Efficiency, Low Efficiency Rollâ€Off OLEDs. Advanced Optical Materials, 2017, 5, 1700145.	3.6	51
138	Triphenylamine-cored star-shape compounds as non-fullerene acceptor for high-efficiency organic solar cells: Tuning the optoelectronic properties by S/Se-annulated perylene diimide. Organic Electronics, 2017, 41, 166-172.	1.4	51
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