

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7546838/guohua-xie-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

207 papers	6,383 citations	42 h-index	71 g-index
223 ext. papers	7,570 ext. citations	7.2 avg, IF	6.2 L-index

#	Paper	IF	Citations
207	Achieving Nearly 30% External Quantum Efficiency for Orange-Red Organic Light Emitting Diodes by Employing Thermally Activated Delayed Fluorescence Emitters Composed of 1,8-Naphthalimide-Acridine Hybrids. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704961	24	385
206	Role of tungsten oxide in inverted polymer solar cells. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 043311	3.4	271
205	Performance improvement of inverted polymer solar cells with different top electrodes by introducing a MoO <sub>3</sub> buffer layer. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 193307	3.4	200
204	An AIEgen-based 3D covalent organic framework for white light-emitting diodes. <i>Nature Communications</i> , <b>2018</b> , 9, 5234	17.4	182
203	Inheriting the Characteristics of TADF Small Molecule by Side-Chain Engineering Strategy to Enable Bluish-Green Polymers with High PLQYs up to 74% and External Quantum Efficiency over 16% in Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604223	24	177
202	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. <i>Chemical Science</i> , <b>2016</b> , 7, 5441-5447	9.4	154
201	Creating a thermally activated delayed fluorescence channel in a single polymer system to enhance exciton utilization efficiency for bluish-green electroluminescence. <i>Chemical Communications</i> , <b>2016</b> , 52, 2292-5	5.8	140
200	Naphthothiadiazole-Based Near-Infrared Emitter with a Photoluminescence Quantum Yield of 60% in Neat Film and External Quantum Efficiencies of up to 3.9% in Nondoped OLEDs. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606384	15.6	136
199	Design Strategy for Solution-Processable Thermally Activated Delayed Fluorescence Emitters and Their Applications in Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800568	8.1	129
198	Multi-carbazole encapsulation as a simple strategy for the construction of solution-processed, non-doped thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2442-2446	7.1	126
197	Realizing 22.5% External Quantum Efficiency for Solution-Processed Thermally Activated Delayed-Fluorescence OLEDs with Red Emission at 622 nm via a Synergistic Strategy of Molecular Engineering and Host Selection. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901404	24	122
196	Boosting reverse intersystem crossing by increasing donors in triarylboron/phenoxazine hybrids: TADF emitters for high-performance solution-processed OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4402-4407	7.1	120
195	Controllably tuning excited-state energy in ternary hosts for ultralow-voltage-driven blue electrophosphorescence. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10104-8	16.4	114
194	A single phosphine oxide host for high-efficiency white organic light-emitting diodes with extremely low operating voltages and reduced efficiency roll-off. <i>Advanced Materials</i> , <b>2011</b> , 23, 2491-6	24	109
193	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. <i>Chemical Science</i> , <b>2018</b> , 9, 1385-1391	9.4	96
192	Light-Emitting Electrochemical Cells and Solution-Processed Organic Light-Emitting Diodes Using Small Molecule Organic Thermally Activated Delayed Fluorescence Emitters. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6535-6542	9.6	95
191	Achieving a balance between small singlet-triplet energy splitting and high fluorescence radiative rate in a quinoxaline-based orange-red thermally activated delayed fluorescence emitter. <i>Chemical Communications</i> , <b>2016</b> , 52, 11012-5	5.8	88

190	Harmonizing Triplet Level and Ambipolar Characteristics of Wide-Gap Phosphine Oxide Hosts toward Highly Efficient and Low Driving Voltage Blue and Green PHOLEDs: An Effective Strategy Based on Spiro-Systems. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 5331-5339	9.6	87
189	Realizing Highly Efficient Solution-Processed Homojunction-Like Sky-Blue OLEDs by Using Thermally Activated Delayed Fluorescent Emitters Featuring an Aggregation-Induced Emission Property. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1547-1553	6.4	83
188	Semitransparent inverted polymer solar cells with MoO <sub>3</sub> /Ag/MoO <sub>3</sub> as transparent electrode. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 053303	3.4	80
187	Highly Efficient Thermally Activated Delayed Fluorescence via an Unconjugated Donor-Acceptor System Realizing EQE of Over 30. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003885	24	76
186	A Simple Organic Molecule Realizing Simultaneous TADF, RTP, AIE, and Mechanoluminescence: Understanding the Mechanism Behind the Multifunctional Emitter. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17651-17655	16.4	75
185	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. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10715-10720	7.1	74
184	Achieving 21% External Quantum Efficiency for Nondoped Solution-Processed Sky-Blue Thermally Activated Delayed Fluorescence OLEDs by Means of Multi-(Donor/Acceptor) Emitter with Through-Space/-Bond Charge Transfer. <i>Advanced Science</i> , <b>2020</b> , 7, 1902087	13.6	74
183	Very low turn-on voltage and high brightness tris-(8-hydroxyquinoline) aluminum-based organic light-emitting diodes with a MoO <sub>x</sub> p-doping layer. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 093305	3.4	70
182	An efficient exciton harvest route for high-performance OLEDs based on aggregation-induced delayed fluorescence. <i>Chemical Communications</i> , <b>2018</b> , 54, 1379-1382	5.8	66
181	Conjugated asymmetric donor-substituted 1,3,5-triazines: new host materials for blue phosphorescent organic light-emitting diodes. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 10871-8	4.8	66
180	Using Ring-Opening Metathesis Polymerization of Norbornene To Construct Thermally Activated Delayed Fluorescence Polymers: High-Efficiency Blue Polymer Light-Emitting Diodes. <i>Macromolecules</i> , <b>2018</b> , 51, 1598-1604	5.5	64
179	Dumbbell-Shaped Spirocyclic Aromatic Hydrocarbon to Control Intermolecular $\pi$ -Stacking Interaction for High-Performance Nondoped Deep-Blue Organic Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 2849-2853	6.4	64
178	Self-Assembly of a Highly Emissive Pure Organic Imine-Based Stack for Electroluminescence and Cell Imaging. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4704-4710	16.4	61
177	Highly efficient blueish-green fluorescent OLEDs based on AIE liquid crystal molecules: from ingenious molecular design to multifunction materials. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3999-4008	7.1	60
176	A new phosphine oxide host based on ortho-disubstituted dibenzofuran for efficient electrophosphorescence: towards high triplet state excited levels and excellent thermal, morphological and efficiency stability. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 8947-56	4.8	59
175	Green Phosphorescence and Electroluminescence of Sulfur Pentafluoride-Functionalized Cationic Iridium(III) Complexes. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 5907-14	5.1	57
174	Towards highly efficient blue-phosphorescent organic light-emitting diodes with low operating voltage and excellent efficiency stability. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 445-9	4.8	57
173	Benzo[1,2-b:4,5-b']dithiophene and Thieno[3,4-c]pyrrole-4,6-dione Based Donor-Acceptor Conjugated Polymers for High Performance Solar Cells by Rational Structure Modulation. <i>Macromolecules</i> , <b>2015</b> , 48, 2948-2957	5.5	56

172	White Electroluminescent Phosphine-Chelated Copper Iodide Nanoclusters. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6606-6610	9.6	55
171	Halogen-induced internal heavy-atom effect shortening the emissive lifetime and improving the fluorescence efficiency of thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 12204-12210	7.1	51
170	Small-Molecule-Doped Organic Crystals with Long-Persistent Luminescence. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902503	15.6	50
169	Solution-Processable Silicon Phthalocyanines in Electroluminescent and Photovoltaic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9247-53	9.5	48
168	Deep-red iridium(III) complexes cyclometalated by phenanthridine derivatives for highly efficient solution-processed organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3492-3498	7.1	47
167	A unique white electroluminescent one-dimensional europium(III) coordination polymer. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 1893-1903	7.1	44
166	Color-stable and efficient stacked white organic light-emitting devices comprising blue fluorescent and orange phosphorescent emissive units. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 153508	3.4	44
165	Highly efficient sky blue electroluminescence from ligand-activated copper iodide clusters: Overcoming the limitations of cluster light-emitting diodes. <i>Science Advances</i> , <b>2019</b> , 5, eaav9857	14.3	41
164	Boosting the Efficiency of Near-Infrared Fluorescent OLEDs with an Electroluminescent Peak of Nearly 800 nm by Sensitizer-Based Cascade Energy Transfer. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706088	15.6	40
163	Enhanced hole injection in organic light-emitting devices by using Fe <sub>3</sub> O <sub>4</sub> as an anodic buffer layer. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 223306	3.4	40
162	A Red Fluorescent Emitter with a Simultaneous Hybrid Local and Charge Transfer Excited State and Aggregation-Induced Emission for High-Efficiency, Low Efficiency Roll-Off OLEDs. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700145	8.1	39
161	Pure Organic Emitter with Simultaneous Thermally Activated Delayed Fluorescence and Room-Temperature Phosphorescence: Thermal-Controlled Triplet Recycling Channels. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700588	8.1	39
160	Tuning the twist angle of thermally activated delayed fluorescence molecules via a dendronization strategy: high-efficiency solution-processed non-doped OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3480-3487	7.1	38
159	Highly Efficient Solution-Processed Deep-Red Organic Light-Emitting Diodes Based on an Exciplex Host Composed of a Hole Transporter and a Bipolar Host. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4967-4973	6.4	38
158	Highly efficient top-emitting white organic light-emitting diodes with improved contrast and reduced angular dependence for active matrix displays. <i>Organic Electronics</i> , <b>2010</b> , 11, 2055-2059	3.5	38
157	A 3-dimensional spiro-functionalized platinum(II) complex to suppress intermolecular $\pi$ - $\pi$ and Pt $\cdots$ Pt supramolecular interactions for a high-performance electrophosphorescent device. <i>Chemical Communications</i> , <b>2012</b> , 48, 3854-6	5.8	37
156	Highly Emissive Dinuclear Platinum(III) Complexes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7469-7479	16.4	36
155	Convergent modulation of singlet and triplet excited states of phosphine-oxide hosts through the management of molecular structure and functional-group linkages for low-voltage-driven electrophosphorescence. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 141-54	4.8	36

154	Formylated chloro-bridged iridium(III) dimers as OLED materials: opening up new possibilities. <i>Dalton Transactions</i> , <b>2015</b> , 44, 8419-32	4.3	35
153	Thermally activated delayed fluorescence enantiomers for solution-processed circularly polarized electroluminescence. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14511-14516	7.1	31
152	Dithieno[3,2-b:2',3'-d]pyridin-5(4H)-one-based polymers with a bandgap up to 2.02 eV for high performance field-effect transistors and polymer solar cells with an open-circuit voltage up to 0.98 V and an efficiency up to 6.84%. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20516-20526	13	30
151	Near-infrared emission of dinuclear iridium complexes with hole/electron transporting bridging and their monomer in solution-processed organic light-emitting diodes. <i>Dyes and Pigments</i> , <b>2018</b> , 149, 315-322	4.6	29
150	Tailoring Spatial Distribution of the Optical Field Intensity in Semitransparent Inverted Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 12611-12615	3.8	29
149	Novel heterofluorene-based hosts for highly efficient blue electrophosphorescence at low operating voltages. <i>Organic Electronics</i> , <b>2011</b> , 12, 1619-1624	3.5	28
148	Thermally Activated Delayed Fluorescence beyond Through-Bond Charge Transfer for High-Performance OLEDs. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2002204	8.1	28
147	Incorporating Thermally Activated Delayed Fluorescence into Mechanochromic Luminescent Emitters: High-Performance Solution-Processed Yellow Organic Light Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1801071	8.1	28
146	A bulky pyridinylfluorene-fuctionalizing approach to synthesize diarylfluorene-based bipolar host materials for efficient red, green, blue and white electrophosphorescent devices. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3482	7.1	27
145	Simply Structured Near-Infrared Emitters with a Multicyano Linear Acceptor for Solution-Processed Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 1010-1017	4.8	27
144	Solution-Processed Highly Efficient Bluish-Green Thermally Activated Delayed Fluorescence Emitter Bearing an Asymmetric Oxadiazole-Difluoroboron Double Acceptor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24339-24348	9.5	26
143	Regulating the photophysical properties of highly twisted TADF emitters by concurrent through-space/-bond charge transfer. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126173	14.7	26
142	Hybrid white organic light-emitting diodes with improved color stability and negligible efficiency roll-off based on blue fluorescence and yellow phosphorescence. <i>Journal of Luminescence</i> , <b>2013</b> , 137, 59-63	3.8	26
141	Color stable multilayer all-phosphor white organic light-emitting diodes with excellent color quality. <i>Organic Electronics</i> , <b>2013</b> , 14, 2014-2022	3.5	26
140	A new spiro[fluorene-9,9'-xanthene]-based host material possessing no conventional hole- and electron-transporting units for efficient and low voltage blue PHOLED via simple two-step synthesis. <i>Organic Electronics</i> , <b>2012</b> , 13, 2741-2746	3.5	26
139	Tuning the emission from local excited-state to charge-transfer state transition in quinoxaline-based butterfly-shaped molecules: Efficient orange OLEDs based on thermally activated delayed fluorescence emitter. <i>Dyes and Pigments</i> , <b>2017</b> , 141, 325-332	4.6	25
138	Solution-processible brilliantly luminescent Eu(III) complexes with host-featured phosphine oxide ligands for monochromic red-light-emitting diodes. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 11137-48	4.8	25
137	Influence of interlayer on the performance of stacked white organic light-emitting devices. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 123307	3.4	25



- 136 New perylene diimide derivatives: stable red emission, adjustable property from ACQ to AIE, and good device performance with an EQE value of 4.93%. *Science Bulletin*, **2018**, 63, 108-116 10.6 24
- 135 Influence of integrated alkyl-chain length on the mesogenic and photophysical properties of platinum-based metallomesogens and their application for polarized white OLEDs. *Dyes and Pigments*, **2016**, 133, 238-247 4.6 24
- 134 Linearly polarized electroluminescence from ionic iridium complex-based metallomesogens: the effect of aliphatic-chain on their photophysical properties. *Journal of Materials Chemistry C*, **2018**, 6, 3298-3309<sup>23</sup> 7.1 23
- 133 Enhancing Spin-Orbit Coupling by Introducing a Lone Pair Electron with p Orbital Character in a Thermally Activated Delayed Fluorescence Emitter: Photophysics and Devices. *Journal of Physical Chemistry Letters*, **2019**, 10, 2669-2675 6.4 22
- 132 Benzobisoxazole-based electron transporting materials with high Tg and ambipolar property: high efficiency deep-red phosphorescent OLEDs. *Journal of Materials Chemistry C*, **2015**, 3, 7589-7596 7.1 22
- 131 Rational utilization of intramolecular and intermolecular hydrogen bonds to achieve desirable electron transporting materials with high mobility and high triplet energy. *Journal of Materials Chemistry C*, **2016**, 4, 1482-1489 7.1 22
- 130 High-color-purity and efficient solution-processable blue phosphorescent light-emitting diodes with Pt(II) complexes featuring 3 $\pi$  transitions. *Materials Chemistry Frontiers*, **2019**, 3, 2448-2454 7.8 21
- 129 Feasible Modification of PEDOT:PSS by Poly(4-styrenesulfonic acid): A Universal Method to Double the Efficiencies for Solution-Processed Organic Light-Emitting Devices. *ACS Applied Materials & Interfaces*, **2019**, 11, 29105-29112 9.5 21
- 128 Controllably Tuning Excited-State Energy in Ternary Hosts for Ultralow-Voltage-Driven Blue Electrophosphorescence. *Angewandte Chemie*, **2012**, 124, 10251-10255 3.6 21
- 127 Understanding the influence of doping in efficient phosphorescent organic light-emitting diodes with an organic p $\pi$  homojunction. *Organic Electronics*, **2013**, 14, 1695-1703 3.5 20
- 126 Emerging circularly polarized thermally activated delayed fluorescence materials and devices. *Applied Physics Letters*, **2020**, 117, 130502 3.4 20
- 125 A Simple Organic Molecule Realizing Simultaneous TADF, RTP, AIE, and Mechanoluminescence: Understanding the Mechanism Behind the Multifunctional Emitter. *Angewandte Chemie*, **2019**, 131, 17815-17819<sup>36</sup> 15.6 19
- 124 Self-Doping Cathode Interfacial Material Simultaneously Enabling High Electron Mobility and Powerful Work Function Tunability for High-Efficiency All-Solution-Processed Polymer Light-Emitting Diodes. *Advanced Functional Materials*, **2017**, 27, 1700695 15.6 18
- 123 Simple construction of deep-red hexaazatrinaphthylene-based thermally activated delayed fluorescence emitters for efficient solution-processed OLEDs with a peak at 692 nm. *Chemical Communications*, **2019**, 55, 14190-14193 5.8 18
- 122 Highly efficient electroluminescence from evaporation- and solution-processable orange-red thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2019**, 7, 12321-12327<sup>71</sup> 7.1 17
- 121 Simple InCl Doped PEDOT:PSS and UV-Ozone Treatment Strategy: External Quantum Efficiency up to 21% for Solution-Processed Organic Light-Emitting Devices with a Thermally Activated Delayed Fluorescence Emitter. *ACS Applied Materials & Interfaces*, **2017**, 9, 34139-34145 9.5 17
- 120 Tailoring the Efficiencies and Spectra of White Organic Light-Emitting Diodes with the Interlayers. *Journal of Physical Chemistry C*, **2011**, 115, 264-269 3.8 17
- 119 Efficient white organic light-emitting diodes based on an orange iridium phosphorescent complex. *Journal of Luminescence*, **2011**, 131, 2144-2147 3.8 17

118	Star-Shaped Boron-Containing Asymmetric Host Materials for Solution-Processable Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Science</i> , <b>2018</b> , 5, 1800292	13.6	17
117	Red thermally activated delayed fluorescence polymers containing 9H-thioxanthen-9-one-10,10-dioxide acceptor group as pendant or incorporated in backbone. <i>Organic Electronics</i> , <b>2018</b> , 59, 406-413	3.5	17
116	Tuning emissive characteristics and singlet-triplet energy splitting of fluorescent emitters by encapsulation group modification: Yellow TADF emitter for solution-processed OLEDs with high luminance and ultraslow efficiency roll-off. <i>Dyes and Pigments</i> , <b>2017</b> , 139, 593-600	4.6	16
115	Boosting photoluminescence quantum yields of triarylboron/phenoxazine hybrids via incorporation of cyano groups and their applications as TADF emitters for high-performance solution-processed OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4778-4783	7.1	16
114	Controlling the emission efficiency of blue-green iridium(III) phosphorescent emitters and applications in solution-processed organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8939-8946	7.1	16
113	Engineering the Interconnecting Position of Star-Shaped Donor-Acceptor Molecules Based on Triazine, Spirofluorene, and Triphenylamine Moieties for Color Tuning from Deep Blue to Green. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2555-63	4.5	16
112	Pyrene-Based Blue AIEgen: Enhanced Hole Mobility and Good EL Performance in Solution-Processed OLEDs. <i>Molecules</i> , <b>2017</b> , 22,	4.8	16
111	Highly efficient and low-cost top-emitting organic light-emitting diodes for monochromatic microdisplays. <i>Organic Electronics</i> , <b>2010</b> , 11, 407-411	3.5	16
110	The end-capped group effect on dithienosilole trimer based small molecules for efficient organic photovoltaics. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1972-1978	7.1	15
109	Enhanced efficiency in single-host white organic light-emitting diode by triplet exciton conversion. <i>Journal of Luminescence</i> , <b>2013</b> , 143, 108-112	3.8	15
108	Benzoylpyridine-based TADF emitters with AIE feature for efficient non-doped OLEDs by both evaporation and solution process. <i>Dyes and Pigments</i> , <b>2020</b> , 176, 108179	4.6	15
107	Rigidity and Polymerization Amplified Red Thermally Activated Delayed Fluorescence Polymers for Constructing Red and Single-Emissive-Layer White OLEDs. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002493	15.6	15
106	Multichannel Strategies to Produce Stabilized Azaphenylene Diradicals: A Predictable Model to Generate Self-Doped Cathode Interfacial Layers for Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806125	15.6	15
105	Manipulating the doping level via host-dopant synergism towards high performance n-type thermoelectric composites. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122817	14.7	15
104	Platinum-based metallomesogens bearing a Pt(4,6-dfppy)(acac) skeleton: synthesis, photophysical properties and polarised phosphorescence application. <i>Dalton Transactions</i> , <b>2018</b> , 47, 13368-13377	4.3	15
103	Revealing the new potential of an indandione unit for constructing efficient yellow thermally activated delayed fluorescence emitters with short emissive lifetimes. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7111-7118	7.1	14
102	All fluorescent and high color rendering index white organic light-emitting devices with improved color stability at high brightness. <i>Thin Solid Films</i> , <b>2012</b> , 520, 2966-2970	2.2	14
101	Blue light-emitting diodes based on halide perovskites: Recent advances and strategies. <i>Materials Today</i> , <b>2021</b> , 51, 222-222	21.8	14

100	Synthesis of Solution Processable Blue AIEgens and the Device Performance. <i>Acta Chimica Sinica</i> , <b>2016</b> , 74, 865	3.3	14
99	Tetraphenylcyclopentadiene-Based Hyperbranched Polymers: Convenient Syntheses from One Pot $A_4 + B_2$ Polymerization and High External Quantum Yields up to 9.74% in OLED Devices. <i>Macromolecules</i> , <b>2019</b> , 52, 896-903	5.5	14
98	Spirotriphenylamine based star-shaped D-A molecules meeting AIE chromophore for both efficient solution-processed doped and nondoped blue organic light-emitting diodes. <i>Dyes and Pigments</i> , <b>2017</b> , 143, 173-182	4.6	12
97	Carbazole/oligofluorene end-capped hexanes: solution-processable host materials for phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4442-4447	7.1	12
96	Solution-processable 1,3,4-oxadiazole/spiro[fluorene-9,9'-xanthene] hybrid as efficient host for green thermally activated delayed fluorescence devices. <i>Dyes and Pigments</i> , <b>2019</b> , 166, 168-173	4.6	12
95	Simple pyridine hydrochlorides as bifunctional electron injection and transport materials for high-performance all-solution-processed organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 6224-6229	7.1	12
94	White organic light-emitting devices with a bipolar transport layer between blue fluorescent and yellow phosphor-sensitized-fluorescent emitting layers. <i>Synthetic Metals</i> , <b>2010</b> , 160, 829-831	3.6	12
93	Solution-processed multi-resonance organic light-emitting diodes with high efficiency and narrowband emission. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 1372-1376	8.1	12
92	Combining the qualities of carbazole and tetraphenyl silane in a desirable main chain for thermally activated delayed fluorescence polymers. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 4201-4208	4.9	11
91	Carbazole-dendronized thermally activated delayed fluorescent molecules with small singlet-triplet gaps for solution-processed organic light-emitting diodes. <i>Dyes and Pigments</i> , <b>2018</b> , 153, 92-98	4.6	11
90	Highly efficient blue top-emitting device with phase-shift adjustment layer. <i>Optics Express</i> , <b>2009</b> , 17, 5364-72	3.3	11
89	Iridium-based emitters containing pendant triphenylene moieties for bluish-green OLEDs with improved efficiency upon thermal annealing. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 1773-1780	3.6	10
88	Triplet manipulation for strong luminescence. <i>Science Bulletin</i> , <b>2020</b> , 65, 1780-1782	10.6	10
87	Distinguishing triplet energy transfer and trap-assisted recombination in multi-color organic light-emitting diode with an ultrathin phosphorescent emissive layer. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 114504	2.5	10
86	Atomic Precision Graphene Model Compound for Bright Electrochemiluminescence and Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51736-51743	9.5	10
85	Blue-Phosphorescent Pt(II) Complexes of Tetradentate Pyridyl-Carbolinyl Ligands: Synthesis, Structure, Photophysics, and Electroluminescence. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 14493-14500	5.1	10
84	Fine-tuning the photophysical properties of thermally activated delayed fluorescent emitters using torsion angles: high performance sky-blue OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13953-13959	7.1	10
83	Fused tetracyclic tris[1,2,4]triazolo[1,3,5]triazine as a novel rigid electron acceptor for efficient thermally activated delayed fluorescence emitters.. <i>RSC Advances</i> , <b>2020</b> , 10, 15523-15529	3.7	10



82	Phenylquinoline fused cyclic derivatives as electron acceptors of exciplex forming hosts for solution-processable red phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8035-8041	7.1	10
81	Unravelling Electroplex Emission from Long-Range Charge Transfer Based on a Phosphorescent Dendrimer as the Electron Donor. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 5255-5262	6.4	9
80	Molecular engineering by $\pi$ -Bond spacer enables solution-processable host materials for TADF emitter towards high-performance OLEDs. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125276	14.7	9
79	Novel P-I-N-P top-emitting organic light-emitting diodes with enhanced efficiency and stability. <i>Organic Electronics</i> , <b>2013</b> , 14, 2331-2340	3.5	9
78	Rational design of isophthalonitrile-based thermally activated delayed fluorescence emitters for OLEDs with high efficiency and slow efficiency roll-off. <i>Dyes and Pigments</i> , <b>2017</b> , 147, 350-356	4.6	9
77	Diarylfluorenes-based $\pi$ -stacked molecules: synthesis, X-ray crystallography, and supramolecular light-emitting devices. <i>Tetrahedron</i> , <b>2013</b> , 69, 6317-6322	2.4	9
76	Combination of heterojunction and mixed-host structures in one blue fluorescent organic light emitting diode to improve the power efficiency. <i>Thin Solid Films</i> , <b>2011</b> , 519, 3816-3818	2.2	9
75	Protonation-induced dual fluorescence of a blue fluorescent material with twisted ADP configuration. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2442-2450	7.1	9
74	High-Efficiency White Organic Light-Emitting Diodes Based on All Nondoped Thermally Activated Delayed Fluorescence Emitters. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901758	4.6	9
73	Star-shaped thermally activated delayed fluorescence emitters with a tri-armed arylsulfonic acceptor for efficient solution processed organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5580-5586	7.1	8
72	Saturated Red Electroluminescence From Thermally Activated Delayed Fluorescence Conjugated Polymers. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 332	5	8
71	Improved performance of inverted polymer solar cells by utilizing alcohol-soluble oligofluorenes as efficient cathode interlayers. <i>Organic Electronics</i> , <b>2016</b> , 30, 182-190	3.5	8
70	High performance top-emitting and transparent white organic light-emitting diodes based on Al/Cu/TcTa transparent electrodes for active matrix displays and lighting applications. <i>Organic Electronics</i> , <b>2013</b> , 14, 1452-1457	3.5	8
69	Stable and water-soluble CdTe@SiO <sub>2</sub> composite nanospheres: Preparation, characterization and application in LED. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 424, 33-39	5.1	8
68	Efficient fluorescent white organic light-emitting devices based on a ultrathin 5,6,11,12-tetraphenylnaphthacene layer. <i>Solid-State Electronics</i> , <b>2011</b> , 57, 35-38	1.7	8
67	Transfer printing of polymer light-emitting devices with a small molecular seeding layer featuring thermally activated delayed fluorescence for triplet harvesting. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 144-149	10.8	8
66	A Cu-NHC based phosphorescent binuclear iridium(iii)/copper(i) complex with an unpredictable near-linear two-coordination mode. <i>Dalton Transactions</i> , <b>2018</b> , 47, 17299-17303	4.3	8
65	Intermolecular locking design of red thermally activated delayed fluorescence molecules for high-performance solution-processed organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2291-2297	7.1	8

- |    |   |      |   |
|----|---|------|---|
| 64 | Thermally Activated Delayed Fluorescence Polymer Emitters with Tunable Emission from Yellow to Warm White Regulated by Triphenylamine Derivatives. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 2204-2212  | 4.3  | 7 |
| 63 | Color stable and low driving voltage white organic light-emitting diodes with low efficiency roll-off achieved by selective hole transport buffer layers. <i>Organic Electronics</i> , <b>2012</b> , 13, 2296-2300  | 3.5  | 7 |
| 62 | Pyrido[2,3-b]pyrazine-based full-color fluorescent materials for high-performance OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 12445-12449   | 7.1  | 7 |
| 61 | Simple-Structured Blue Thermally Activated Delayed Fluorescence Emitter for Solution-Processed Organic Light-Emitting Diodes with External Quantum Efficiency of over 20. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12305-12312   | 9.5  | 7 |
| 60 | Measuring and structuring the spatial coherence length of organic light-emitting diodes. <i>Laser and Photonics Reviews</i> , <b>2016</b> , 10, 82-90   | 8.3  | 7 |
| 59 | Electroluminescence of intra-molecular exciplexes based on novel Lewis acid borane acceptors and a high triplet level donor. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122527  | 14.7 | 7 |
| 58 | A solution-processable wholly-aromatic bipolar host material for highly efficient blue electroluminescent devices. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 687-692   | 7.1  | 7 |
| 57 | Remove the water-induced traps toward improved performance in organic solar cells. <i>Science China Materials</i> , <b>2021</b> , 64, 2629-2644   | 7.1  | 7 |
| 56 | FA/MA Cation Exchange for Efficient and Reproducible Tin-Based Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40656-40663  | 9.5  | 7 |
| 55 | Organic Light-Emitting Diodes: Achieving Nearly 30% External Quantum Efficiency for OrangeRed Organic Light Emitting Diodes by Employing Thermally Activated Delayed Fluorescence Emitters Composed of 1,8-Naphthalimide-Acridine Hybrids (Adv. Mater. 5/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870033 | 24   | 6 |
| 54 | Triazine-core-containing star-shaped compounds as cathode interlayers for efficient inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 11278-11283  | 7.1  | 6 |
| 53 | A new OLED SPICE model for pixel circuit simulation in OLED-on-silicon microdisplay design. <i>Journal of Semiconductors</i> , <b>2012</b> , 33, 075007   | 2.3  | 6 |
| 52 | Resonance hosts for high efficiency solution-processed blue and white electrophosphorescent devices. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1645-1651   | 7.9  | 6 |
| 51 | Hexa-substituted benzene derivatives as hole transporting materials for efficient perovskite solar cells. <i>Dyes and Pigments</i> , <b>2019</b> , 163, 267-273   | 4.6  | 6 |
| 50 | Solution-Processable Chiral Boron Complexes for Circularly Polarized Red Thermally Activated Delayed Fluorescent Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47826-47834   | 9.5  | 6 |
| 49 | Realizing an efficient warm white organic light-emitting device possessing excellent color-stability and color rendering index. <i>Organic Electronics</i> , <b>2019</b> , 68, 129-134  | 3.5  | 5 |
| 48 | Highly Efficient Solution-Processable Nanophosphor with Ambipolar Shell. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2971-2979  | 4.8  | 5 |
| 47 | Enhancing Optical Gain Stability for a Deep-Blue Emitter Enabled by a Low-Loss Transparent Matrix. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 21569-21578  | 3.8  | 5 |

46	PIN <sup>1</sup> top-emitting organic light-emitting diodes with MoO <sub>x</sub> as the electrical and optical modification layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 1168-1174	1.6	5
45	Xanthene-based phosphine oxide host with the planar multi-insulating structure for efficient electrophosphorescence. <i>Dyes and Pigments</i> , <b>2012</b> , 94, 561-569	4.6	5
44	Pure red organic light-emitting diode based on a europium complex. <i>Solid-State Electronics</i> , <b>2009</b> , 53, 397-399	1.7	5
43	Influence of connecting units' thicknesses on tandem organic devices' performances. <i>Microelectronics Journal</i> , <b>2008</b> , 39, 1622-1625	1.8	5
42	Optical properties of organic neodymium complex doped optical waveguides based on the intramolecular energy transfer effect. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2624	2.6	5
41	Monoradically luminescent polymers by a super acid-catalyzed polymerization and deep-red electroluminescence. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1214-1220	7.9	5
40	Highly efficient blue TADF emitters incorporating bulky acridine moieties and their application in solution-processed OLEDs. <i>Dyes and Pigments</i> , <b>2021</b> , 188, 109157	4.6	5
39	Solution-Processed Pure Blue Thermally Activated Delayed Fluorescence Emitter Organic Light-Emitting Diodes With Narrowband Emission. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 691172	5	5
38	Stacked Thermally Activated Delayed Fluorescence Emitters with Alkyl Chain Modulation. <i>CCS Chemistry</i> , <b>2021</b> , 3, 1757-1763	7.2	5
37	Solution-processed multiple exciplexes via spirofluorene and S-triazine moieties for red thermally activated delayed fluorescence emissive layer OLEDs. <i>Organic Electronics</i> , <b>2021</b> , 96, 106184	3.5	5
36	Superacid-catalyzed Friedel-Crafts polyhydroxyalkylation: a straightforward method to construct sky-blue thermally activated delayed fluorescence polymers. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 3481-3487	4.9	4
35	Organic and quantum-dot hybrid white LEDs using a narrow bandwidth blue TADF emitter. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 10831-10836	7.1	4
34	Multiple $\pi$ -Conjugated Molecules with Selectively Enhanced Electrical Performance for Efficient Solution-Processed Blue Electrophosphorescence. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901124	8.1	4
33	Photophysics and electroluminescence of red quantum dots diluted in a thermally activated delayed fluorescence host. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13218-13223	7.1	4
32	Triazatruxene based star-shaped thermally activated delayed fluorescence emitters: modulating the performance of solution-processed non-doped OLEDs via side-group engineering. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 7363-7373	7.1	4
31	Sky-blue thermally activated delayed fluorescence polymers with $\pi$ -interrupted polymer mainchain via Friedel-Crafts polycondensation. <i>Polymer</i> , <b>2020</b> , 204, 122722	3.9	3
30	Boosting the electroluminescence efficiency of solution-processed thermally activated delayed fluorescence OLEDs with a versatile hole-transporting layer of organic/inorganic hybrid perovskite. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6305-6311	7.1	3
29	Influence of molecular configuration and functional substituents on excited state energy levels in two naphthyl-based phosphine oxide hosts. <i>Organic Electronics</i> , <b>2012</b> , 13, 1516-1525	3.5	3

28	The realization of an SVGA OLED-on-silicon microdisplay driving circuit. <i>Journal of Semiconductors</i> , <b>2012</b> , 33, 035006	2.3	3
27	Highly efficient all fluorescent white organic light-emitting devices made by sequential doping. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2013</b> , 62, 197204	0.6	3
26	Bis(benzothiophene-S,S-dioxide) fused small molecules realize solution-processible, high-performance and non-doped blue organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1002-1009	7.1	3
25	Easily reproducible top-emitting organic light-emitting devices for microdisplays adapted to aluminum contact from the standard CMOS processes. <i>Journal of Information Display</i> , <b>2020</b> , 21, 131-137	4.1	3
24	Thermally activated delayed fluorescent polymer- assisted morphological control on perfluorinated ionomer enriched surface and exciton harvesting for phosphorescent organic light-emitting devices. <i>Dyes and Pigments</i> , <b>2020</b> , 183, 108718	4.6	3
23	Copper(I) Complex as Sensitizer Enables High-Performance Organic Light-Emitting Diodes with Very Low Efficiency Roll-Off. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2106345	15.6	3
22	Difluoroboron locking tactic enhances photo- and electroluminescence of TADF emitter. <i>Dyes and Pigments</i> , <b>2021</b> , 192, 109392	4.6	3
21	High-efficiency blue OLEDs based on dendritic dinuclear iridium (III) complexes grafted with fluorene core and blue fluorescence chromospheres. <i>Tetrahedron</i> , <b>2018</b> , 74, 425-432	2.4	2
20	Highly efficient and color-stable white organic light-emitting diode based on a novel blue phosphorescent host. <i>Synthetic Metals</i> , <b>2014</b> , 187, 160-164	3.6	2
19	Ester-substituted thiophene-fused benzothiadiazole as a strong electron acceptor to build D <sub>A</sub> red emitters for highly efficient solution-processed OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 1127-1135	7.1	2
18	Design and synthesis of host materials based on spirofluorene and s-triazine moieties and the applications in organic light-emitting devices. <i>Chinese Science Bulletin</i> , <b>2019</b> , 64, 1149-1158	2.9	2
17	Molecular engineering by linkers enables delayed fluorescence emitters for high-efficiency sky-blue solution-processed OLEDs. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133078	14.7	2
16	Perovskite Light-Emitting Devices with Doped Hole Transporting Layer. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
15	Sky-blue thermally activated delayed fluorescence polymers by using a conjugation-confined poly(aryl ether) main chain. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 2490-2497	4.9	2
14	High Performance Circularly Polarized Electroluminescence with Simultaneous Narrowband Emission, High Efficiency and Large Dissymmetry Factor.. <i>Advanced Materials</i> , <b>2022</b> , e2109147	24	2
13	A Discrete Platinum(II) Metallacycle Harvesting Triplet Excitons for Solution-Processed Deep-Red Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2101925	8.1	2
12	Optical Gain at 637 nm Wavelength in Polymer Waveguide Amplifier Under Commercial LED Pumping for Planar Photonic Integration. <i>Advanced Optical Materials</i> , <b>2022</b> , 2200205	8.1	2
11	Equivalent Circuit Model of Top-Emitting OLED for the Designing of OLED-on-Silicon Microdisplay. <i>Advanced Materials Research</i> , <b>2011</b> , 383-390, 7037-7042	0.5	1

10	Blue top-emitting organic light-emitting devices using Alq3 as phase shift adjustment layer. <i>Optoelectronics Letters</i> , <b>2011</b> , 7, 126-128	0.7	1
9	Manipulating Förster and Dexter interactions between a thermally activated delayed fluorescence host and a phosphorescent dopant for highly efficient solution-processed red and white OLEDs. <i>Journal of Materials Chemistry C</i> ,	7.1	1
8	Converting thermally activated delayed fluorescence into hybridized local and charge-transfer via an addition acceptor moiety. <i>Organic Electronics</i> , <b>2022</b> , 100, 106365	3.5	1
7	Novel aggregation-induced delayed fluorescence luminogens for vacuum-deposited and solution-processed OLEDs with very small efficiency roll-offs. <i>Organic Electronics</i> , <b>2021</b> , 99, 106339	3.5	1
6	Post-synthesis of Lewis acid-base adducts as thermally activated delayed fluorescence radical emitters for color-tunable displays and encryption via inkjet printing. <i>Chemical Engineering Journal</i> , <b>2022</b> , 444, 136642	14.7	1
5	Constructing Donor-Resonance-Donor Molecules for Acceptor-Free Bipolar Organic Semiconductors. <i>Research</i> , <b>2021</b> , 2021, 1-10	7.8	0
4	Exploiting new feasibility of a phenylquinoline unit for establishing efficient green thermally activated delayed fluorescent emitter with short delayed fluorescent lifetime. <i>Organic Electronics</i> , <b>2022</b> , 106, 106518	3.5	0
3	White organic light-emitting diodes based on a yellow phosphorescence iridium complex and a high-efficiency blue fluorescence. <i>Thin Solid Films</i> , <b>2013</b> , 537, 221-225	2.2	
2	Simply Structured Near-Infrared Emitters with a Multicyano Linear Acceptor for Solution-Processed Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 895-895	4.8	
1	Exciton Management of Thermally Activated Delayed Fluorescence Materials for Organic Light-Emitting Devices <b>2022</b> , 79-142		