

Wen-Yong Lai

List of Publications by Citations

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187
papers

8,276
citations

42
h-index

86
g-index

210
ext. papers

9,708
ext. citations

8.3
avg, IF

6.39
L-index

#	Paper	IF	Citations
187	Recent progress in metal-organic complexes for optoelectronic applications. <i>Chemical Society Reviews</i> , 2014 , 43, 3259-302	58.5	823
186	Flexible supercapacitors based on paper substrates: a new paradigm for low-cost energy storage. <i>Chemical Society Reviews</i> , 2015 , 44, 5181-99	58.5	455
185	Printable Transparent Conductive Films for Flexible Electronics. <i>Advanced Materials</i> , 2018 , 30, 1704738	24	338
184	Stretchable Thin-Film Electrodes for Flexible Electronics with High Deformability and Stretchability. <i>Advanced Materials</i> , 2015 , 27, 3349-76	24	333
183	One-pot synthesis of heterogeneous Co ₃ O ₄ -nanocube/Co(OH) ₂ -nanosheet hybrids for high-performance flexible asymmetric all-solid-state supercapacitors. <i>Nano Energy</i> , 2017 , 35, 138-145	17.1	262
182	Polyfluorene-based semiconductors combined with various periodic table elements for organic electronics. <i>Progress in Polymer Science</i> , 2012 , 37, 1192-1264	29.6	244
181	Printed supercapacitors: materials, printing and applications. <i>Chemical Society Reviews</i> , 2019 , 48, 3229-3365	36.5	222
180	Porous hollow Co ₃ O ₄ with rhombic dodecahedral structures for high-performance supercapacitors. <i>Nanoscale</i> , 2014 , 6, 14354-9	7.7	215
179	A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation. <i>Advanced Materials</i> , 2016 , 28, 5242-8	24	190
178	Microwave-Assisted Synthesis of Water-Dispersed CdTe Nanocrystals with High Luminescent Efficiency and Narrow Size Distribution. <i>Chemistry of Materials</i> , 2007 , 19, 359-365	9.6	173
177	Microwave-assisted growth and characterization of water-dispersed CdTe/CdS core-shell nanocrystals with high photoluminescence. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13370-4	3.4	170
176	Kinked Star-Shaped Fluorene/Triazatruxene Co-oligomer Hybrids with Enhanced Functional Properties for High-Performance, Solution-Processed, Blue Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2008 , 18, 265-276	15.6	161
175	High-performance free-standing PEDOT:PSS electrodes for flexible and transparent all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10493-10499	13	158
174	Lamellar K ₂ Co ₃ (P ₂ O ₇) ₂ ·2H ₂ O nanocrystal whiskers: High-performance flexible all-solid-state asymmetric micro-supercapacitors via inkjet printing. <i>Nano Energy</i> , 2015 , 15, 303-312	17.1	153
173	Monodisperse Six-Armed Triazatruxenes: Microwave-Enhanced Synthesis and Highly Efficient Pure-Deep-Blue Electroluminescence. <i>Macromolecules</i> , 2006 , 39, 3707-3709	5.5	148
172	Enhanced Solid-State Luminescence and Low-Threshold Lasing from Starburst Macromolecular Materials. <i>Advanced Materials</i> , 2009 , 21, 355-360	24	141
171	Inkjet-printed flexible, transparent and aesthetic energy storage devices based on PEDOT:PSS/Ag grid electrodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13754-13763	13	130

170	Amorphous nickel pyrophosphate microstructures for high-performance flexible solid-state electrochemical energy storage devices. <i>Nano Energy</i> , 2015 , 17, 339-347	17.1	117
169	Organic solid-state lasers: a materials view and future development. <i>Chemical Society Reviews</i> , 2020 , 49, 111-131	58.5	116
168	Low-Threshold Distributed-Feedback Lasers Based on Pyrene-Cored Starburst Molecules with 1,3,6,8-Attached Oligo(9,9-Dialkylfluorene) Arms. <i>Advanced Functional Materials</i> , 2009 , 19, 2844-2850	15.6	110
167	Synthesis of CdTe nanocrystals through program process of microwave irradiation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13352-6	3.4	110
166	Redox-active triazatruxene-based conjugated microporous polymers for high-performance supercapacitors. <i>Chemical Science</i> , 2017 , 8, 2959-2965	9.4	103
165	Screen-Printed Poly(3,4-Ethylenedioxythiophene):Poly(Styrenesulfonate) Grids as ITO-Free Anodes for Flexible Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1705955	15.6	97
164	Stimuli-responsive solid-state emission from o-carborane-tetraphenylethene dyads induced by twisted intramolecular charge transfer in the crystalline state. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 19-28	7.1	85
163	High-performance stretchable transparent electrodes based on silver nanowires synthesized via an eco-friendly halogen-free method. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10369-10376	7.1	84
162	Organic Light-Emitting Field-Effect Transistors: Device Geometries and Fabrication Techniques. <i>Advanced Materials</i> , 2018 , 30, e1802466	24	81
161	Uniform manganese hexacyanoferrate hydrate nanocubes featuring superior performance for low-cost supercapacitors and nonenzymatic electrochemical sensors. <i>Nanoscale</i> , 2015 , 7, 16012-9	7.7	79
160	Synthesis and Characterization of Pyrene-Centered Starburst Oligofluorenes. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 659-664	4.8	79
159	Highly Transparent and Flexible All-Solid-State Supercapacitors Based on Ultralong Silver Nanowire Conductive Networks. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32536-32542	9.5	69
158	One-step electrochemical synthesis of a graphene-ZnO hybrid for improved photocatalytic activity. <i>Materials Research Bulletin</i> , 2013 , 48, 2855-2860	5.1	62
157	Inkjet-Printed Small-Molecule Organic Light-Emitting Diodes: Halogen-Free Inks, Printing Optimization, and Large-Area Patterning. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40533-40540	9.5	61
156	Microwave-enhanced multiple Suzuki couplings toward highly luminescent starburst monodisperse macromolecules. <i>Chemical Communications</i> , 2006 , 1959-61	5.8	58
155	Efficient and stable deep blue polymer light-emitting devices based on π -phase poly(9,9-dioctylfluorene). <i>Applied Physics Letters</i> , 2013 , 103, 153301	3.4	57
154	A Solution-Processed Resonance Host for Highly Efficient Electrophosphorescent Devices with Extremely Low Efficiency Roll-off. <i>Advanced Materials</i> , 2015 , 27, 6939-44	24	55
153	Inkjet-Printed High-Performance Flexible Micro-Supercapacitors with Porous Nanofiber-Like Electrode Structures. <i>Small</i> , 2019 , 15, e1901830	11	54

152	Precisely Controlling the Grain Sizes with an Ammonium Hypophosphite Additive for High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802320	15.6	53
151	Conductive Hydrogel-Based Electrodes and Electrolytes for Stretchable and Self-Healable Supercapacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2101303	15.6	52
150	Triazatruxene-based materials for organic electronics and optoelectronics. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10574-10587	7.1	52
149	A Phosphorescent Poly(dendrimer) Containing Iridium(III) Complexes: Synthesis and Light-Emitting Properties. <i>Macromolecules</i> , 2010 , 43, 6986-6994	5.5	50
148	Pyrene-Capped Conjugated Amorphous Starbursts: Synthesis, Characterization, and Stable Lasing Properties in Ambient Atmosphere. <i>Advanced Functional Materials</i> , 2015 , 25, 4617-4625	15.6	47
147	Room temperature synthesis of cobalt-manganese-nickel oxalates micropolyhedrons for high-performance flexible electrochemical energy storage device. <i>Scientific Reports</i> , 2015 , 5, 8536	4.9	46
146	A Simple Strategy towards Highly Conductive Silver-Nanowire Inks for Screen-Printed Flexible Transparent Conductive Films and Wearable Energy-Storage Devices. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900196	6.8	43
145	One Dimensional Silver-based Nanomaterials: Preparations and Electrochemical Applications. <i>Small</i> , 2017 , 13, 1701091	11	42
144	Star-Shaped Single-Polymer Systems with Simultaneous RGB Emission: Design, Synthesis, Saturated White Electroluminescence, and Amplified Spontaneous Emission. <i>Macromolecules</i> , 2016 , 49, 2549-2558	5.5	40
143	Deep-blue light emitting triazatruxene core/oligo-fluorene branch dendrimers for electroluminescence and optical gain applications. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 1896-1901	3	39
142	Inner salt-shaped small molecular photosensitizer with extremely enhanced two-photon absorption for mitochondrial-targeted photodynamic therapy. <i>Chemical Communications</i> , 2017 , 53, 1680-1683	5.8	38
141	Well-defined star-shaped conjugated macroelectrolytes as efficient electron-collecting interlayer for inverted polymer solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 452-9	9.5	38
140	Self-templated synthesis of uniform hollow spheres based on highly conjugated three-dimensional covalent organic frameworks. <i>Nature Communications</i> , 2020 , 11, 5561	17.4	38
139	2,3,7,8,12,13-Hexaaryltruxenes: an ortho-substituted multiarm design and microwave-accelerated synthesis toward starburst macromolecular materials with well-defined pi delocalization. <i>Chemistry - A European Journal</i> , 2010 , 16, 8471-9	4.8	37
138	Cellulose Microcrystals with Brush-Like Architectures as Flexible All-Solid-State Polymer Electrolyte for Lithium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3200-3207	8.3	35
137	Synthesis and characterization of symmetric cyclooctatetraindoles: exploring the potential as electron-rich skeletons with extended π systems. <i>Organic Letters</i> , 2014 , 16, 2942-5	6.2	35
136	Low-Threshold Organic Semiconductor Lasers with the Aid of Phosphorescent Ir(III) Complexes as Triplet Sensitizers. <i>Advanced Functional Materials</i> , 2019 , 29, 1806719	15.6	33
135	Fluorene-based cathode interlayer polymers for high performance solution processed organic optoelectronic devices. <i>Organic Electronics</i> , 2014 , 15, 1244-1253	3.5	32

134	High-yield and rapid synthesis of ultrathin silver nanowires for low-haze transparent conductors. <i>RSC Advances</i> , 2017 , 7, 4891-4895	3.7	31
133	Catalyst-free one-step synthesis of ortho-tetraaryl perylene diimides for efficient OPV non-fullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2781-2785	7.1	31
132	A small molecule/fullerene binary acceptor system for high-performance polymer solar cells with enhanced light-harvesting properties and balanced carrier mobility. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2460-2465	13	31
131	High Efficiency Inverted Organic Solar Cells with a Neutral Fullero-pyrrolidine Electron-Collecting Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14293-300	9.5	31
130	Understanding the Light Soaking Effects in Inverted Organic Solar Cells Functionalized with Conjugated Macroelectrolyte Electron-Collecting Interlayers. <i>Advanced Science</i> , 2016 , 3, 1500245	13.6	31
129	Synthesis of novel star-shaped carbazole-functionalized triazatruxenes. <i>Tetrahedron Letters</i> , 2006 , 47, 7089-7092	2	30
128	Poly(dendrimers) with Phosphorescent Iridium(III) Complex-Based Side Chains Prepared via Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2012 , 45, 2963-2971	5.5	29
127	Intramolecular charge transfer induced emission from triphenylamine-o-carborane dyads. <i>RSC Advances</i> , 2017 , 7, 35543-35548	3.7	28
126	Porous dimanganese trioxide microflowers derived from microcoordinations for flexible solid-state asymmetric supercapacitors. <i>Nanoscale</i> , 2016 , 8, 11689-97	7.7	28
125	A T-shaped triazatruxene probe for the naked-eye detection of HCl gas with high sensitivity and selectivity. <i>Chemical Communications</i> , 2016 , 52, 2748-51	5.8	27
124	A hydrophilic monodisperse conjugated starburst macromolecule with multidimensional topology as electron transport/injection layer for organic electronics. <i>Polymer Chemistry</i> , 2014 , 5, 2942-2950	4.9	27
123	One-pot synthesis of 2-bromo-4,5-diazafluoren-9-one via a tandem oxidation-bromination-rearrangement of phenanthroline and its hammer-shaped donor-acceptor organic semiconductors. <i>Tetrahedron</i> , 2011 , 67, 1977-1982	2.4	26
122	Cu superstructures hydrothermally reduced by leaves and derived Cu ₂ O/3O ₄ hybrids for flexible solid-state electrochemical energy storage devices. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4840-4847 ¹³	13	25
121	Synthesis and Characterization of Starburst 9-Phenylcarbazole/Triazatruxene Hybrids. <i>Chemistry Letters</i> , 2008 , 37, 986-987	1.7	25
120	Distinct phosphorescence enhancement of red-emitting iridium(III) complexes with formyl-functionalized phenylpyridine ligands. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4709-4718	7.1	25
119	Highly efficient red phosphorescent organic light-emitting devices based on solution-processed small molecular mixed-host. <i>Journal of Luminescence</i> , 2015 , 161, 300-305	3.8	24
118	Saturated and stabilized white electroluminescence with simultaneous three-color emission from a six-armed star-shaped single-polymer system. <i>Polymer Chemistry</i> , 2015 , 6, 8019-8028	4.9	24
117	Tuning circularly polarized luminescence of an AIE-active pyrene luminogen from fluidic solution to solid thin film. <i>Tetrahedron Letters</i> , 2016 , 57, 1256-1260	2	24

116	Multi-substituted triazatruxene-functionalized pyrene derivatives as efficient organic laser gain media. <i>RSC Advances</i> , 2016 , 6, 6266-6275	3.7	24
115	Wide-Bandgap Small Molecular Acceptors Based on a Weak Electron-Withdrawing Moiety for Efficient Polymer Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800120	7.1	24
114	Porous Organic Polymers as Promising Electrode Materials for Energy Storage Devices. <i>Advanced Materials Technologies</i> , 2020 , 2000154	6.8	23
113	Design and Synthesis of Monodisperse Macromolecular Starbursts Based on a Triazine Center with Multibranching Oligofluorenes as Efficient Gain Media for Organic Lasers. <i>Macromolecules</i> , 2018 , 51, 1325-1335 ²³	5.5	23
112	Industrially weavable metal/cotton yarn air electrodes for highly flexible and stable wire-shaped LiD2 batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3638-3644	13	22
111	Towards Monodisperse Star-Shaped Ladder-Type Conjugated Systems: Design, Synthesis, Stabilized Blue Electroluminescence, and Amplified Spontaneous Emission. <i>Chemistry - A European Journal</i> , 2017 , 23, 5448-5458	4.8	22
110	Multi-Sulfur-Annulated Fused Perylene Diimides for Organic Solar Cells with Low Open-Circuit Voltage Loss. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3805-3814	6.1	22
109	Solution processed single-emission layer white polymer light-emitting diodes with high color quality and high performance from a poly(N-vinyl)carbazole host. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8860-9	3.6	22
108	Triazatruxene-containing hyperbranched polymers: Microwave-assisted synthesis and optoelectronic properties. <i>Science China Chemistry</i> , 2010 , 53, 2472-2480	7.9	22
107	Control of circularly polarized luminescence from a boron ketoiminate-based E conjugated polymer via conformational locks. <i>Polymer Chemistry</i> , 2018 , 9, 5278-5285	4.9	22
106	Iridium(III)-Complexed Polydendrimers for Inkjet-Printing OLEDs: The Influence of Solubilizing Steric Hindrance Groups. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26174-26184	9.5	21
105	Frequency-Upconverted Stimulated Emission by Up to Six-Photon Excitation from Highly Extended Spiro-Fused Ladder-Type Oligo(p-phenylene)s. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10007-10015 ^{16, 17}	16.4	21
104	Pyrene-centered cyanophenyl end-capped starbursts: design, synthesis, stabilized blue electroluminescence and lasing properties. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 668-676	7.8	20
103	Stable pure-blue polymer light-emitting devices based on E phase poly(9,9-dioctylfluorene) induced by 1,2-dichloroethane. <i>Applied Physics Express</i> , 2014 , 7, 101601	2.4	20
102	A study on the preparation and photophysical properties of an iridium(III) complexed homopolymer. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4952		20
101	Novel blue light-emitting hyperbranched polyfluorenes incorporating carbazole kinked structure. <i>European Polymer Journal</i> , 2008 , 44, 3169-3176	5.2	20
100	Highly efficient tandem organic light-emitting devices adopting a nondoped charge-generation unit and ultrathin emitting layers. <i>Organic Electronics</i> , 2018 , 53, 353-360	3.5	20
99	Paper-based all-solid-state flexible asymmetric micro-supercapacitors fabricated by a simple pencil drawing methodology. <i>Chinese Chemical Letters</i> , 2018 , 29, 587-591	8.1	19

98	Towards Highly Substituted Starburst Macromolecular Semiconductors: Microwave Synthesis, Spectroscopy and Electrochemical Properties. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 445-454 ^{2.6}	19
97	Monodisperse star-shaped compound and its blend in uncapped polyfluorene matrices as the active materials for high-performance pure blue light-emitting devices. <i>Applied Physics Letters</i> , 2007 , 90, 14190 ^{3.4}	19
96	Amphiphilic conjugated molecules with multifunctional properties as efficient blue emitters and cathode interlayers for inkjet printed organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7075-7083	7.1 18
95	Understanding the molecular gelation processes of heteroatomic conjugated polymers for stable blue polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6762-6770	7.1 18
94	Architecture of Conjugated Donor-Acceptor (DA)-Type Polymer Films with Cross-Linked Structures. <i>Advanced Functional Materials</i> , 2016 , 26, 1646-1655	15.6 18
93	Ladder-type poly(indenofluorene-co-benzothiadiazole)s as efficient gain media for organic lasers: design, synthesis, optical gain properties, and stabilized lasing properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6629-6639	7.1 18
92	Highly efficient inverted organic light-emitting devices adopting solution-processed double electron-injection layers. <i>Organic Electronics</i> , 2019 , 66, 1-6	3.5 18
91	3D Wearable Fabric-Based Micro-Supercapacitors with Ultra-High Areal Capacitance. <i>Advanced Functional Materials</i> , 2107484	15.6 18
90	Ladder-type oligo(p-phenylene)s with DA architectures: design, synthesis, optical gain properties, and stabilized amplified spontaneous emission. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5797-5809	7.1 17
89	Pyrene-capped starburst emitters as gain media for organic lasers: design, synthesis, and stabilized lasing properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7546-7553	7.1 17
88	Stimuli-responsive circularly polarized luminescence from an achiral perylenyl dyad. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 8463-8470	3.9 17
87	Pyrenyl-Capped Benzofluorene Derivatives: Synthesis, Characterization, and the Effects of Flexible Side Chains on Modulating the Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28117-28126	3.8 16
86	High power efficiency phosphorescent poly(dendrimer) OLEDs. <i>Optics Express</i> , 2012 , 20 Suppl 2, A213-8 ^{3.3}	16
85	Diindolotriazatruxene-Based Hole-Transporting Materials for High-Efficiency Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45717-45725	9.5 15
84	Improved performances of inkjet-printed poly(3-hexylthiophene) organic thin-film transistors by inserting an ionic self-assembled monolayer. <i>RSC Advances</i> , 2016 , 6, 40970-40974	3.7 15
83	Design, Synthesis, and Postvapor Treatment of Neutral Fullero-pyrrolidine Electron-Collecting Interlayers for High-Efficiency Inverted Polymer Solar Cells. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 854-861	4 14
82	Flexible Supercapacitors: A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation (Adv. Mater. 26/2016). <i>Advanced Materials</i> , 2016 , 28, 5241	24 14
81	Efficient blue organic light-emitting devices based on solution-processed starburst macromolecular electron injection layer. <i>Journal of Luminescence</i> , 2016 , 170, 50-55	3.8 14

80	Monodisperse Six-Armed Starbursts based on Truxene-Cored Multibranched Oligofluorenes: Design, Synthesis, and Stabilized Lasing Characteristics. <i>Chemistry - A European Journal</i> , 2019 , 25, 3909-3917	4.8	14
79	Nitrogen-doped star-shaped polycyclic aromatic hydrocarbons based on fused triazatruxenes: synthesis and optoelectronic properties. <i>New Journal of Chemistry</i> , 2017 , 41, 13619-13624	3.6	13
78	Inkjet printed large-area flexible circuits: a simple methodology for optimizing the printing quality. <i>Journal of Semiconductors</i> , 2018 , 39, 015001	2.3	13
77	Efficient non-doped blue phosphorescent organic light-emitting devices by incorporating Ag-island nanostructures. <i>Organic Electronics</i> , 2018 , 58, 25-32	3.5	13
76	Pyrene-Cored Starburst Oligofluorenes with Diphenylamine End-Cappers: Design, Synthesis, Stabilized Optical Gain, and Lasing Properties. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27569-27579	3.8	13
75	Carbazole/iridium dendrimer side-chain phosphorescent copolymers for efficient light emitting devices. <i>New Journal of Chemistry</i> , 2012 , 36, 407-413	3.6	13
74	The Double dendron Approach to host free phosphorescent poly(dendrimer) OLEDs. <i>Polymer Chemistry</i> , 2012 , 3, 734	4.9	13
73	Synthesis and Characterization of 2,3,7,8,12,13-Hexabromotruene and Its Hexaaryl Derivatives. <i>Chemistry Letters</i> , 2009 , 38, 286-287	1.7	13
72	Boosting Circularly Polarized Luminescence of Organic Conjugated Systems Twisted Intramolecular Charge Transfer. <i>Research</i> , 2020 , 2020, 3839160	7.8	13
71	Donor-Acceptor Type Pendant Conjugated Molecules Based on a Triazine Center with Depressed Intramolecular Charge Transfer Characteristics as Gain Media for Organic Semiconductor Lasers. <i>Chemistry - A European Journal</i> , 2020 , 26, 3103-3112	4.8	13
70	Post-Treatment of Screen-Printed Silver Nanowire Networks for Highly Conductive Flexible Transparent Films. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100548	4.6	13
69	Facile synthesis of Mn ₃ [Co(CN) ₆] ₂ ·nH ₂ O nanocrystals for high-performance electrochemical energy storage devices. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 442-449	6.8	12
68	Pyridine linked fluorene hybrid bipolar host for blue, green, and orange phosphorescent organic light-emitting diodes toward solution processing. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11937-11946	7.1	12
67	Design and Synthesis of Conjugated Starburst Molecules for Optoelectronic Applications. <i>Chemical Record</i> , 2019 , 19, 1571-1595	6.6	12
66	Improving the exciton dissociation of polymer/fullerene interfaces with a minimal loading amount of energy cascading molecular dopant. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15977-15984	13	12
65	Research Progress of Non-Fullerene Small-Molecule Acceptor Materials for Organic Solar Cells. <i>Acta Chimica Sinica</i> , 2014 , 72, 158	3.3	12
64	Inverse-architecture perovskite solar cells with 5,6,11,12-tetraphenylnaphthacene as a hole conductor. <i>RSC Advances</i> , 2017 , 7, 29944-29952	3.7	11
63	A nanowire-nanoparticle double composite polymer electrolyte for high performance ambient temperature solid-state lithium batteries. <i>Electrochimica Acta</i> , 2019 , 320, 134560	6.7	11

62	A facile methodology for regulating the size of hexagonal NaYF ₄ :Yb ³⁺ ,Er ³⁺ upconversion nanocrystals. <i>New Journal of Chemistry</i> , 2017 , 41, 11521-11524	3.6	11
61	White Electroluminescence with Simultaneous Three-Color Emission from a Four-Armed Star-Shaped Single-Polymer System. <i>Chinese Journal of Chemistry</i> , 2015 , 33, 873-880	4.9	11
60	Highly efficient solution-processed phosphorescent organic light-emitting devices with double-stacked hole injection layers. <i>Journal of Applied Physics</i> , 2017 , 122, 065304	2.5	10
59	Artificial intelligent optoelectronic skin with anisotropic electrical and optical responses for multi-dimensional sensing. <i>Applied Physics Reviews</i> , 2022 , 9, 021403	17.3	10
58	Highly efficient solution-processed red phosphorescent organic light-emitting diodes employing an interface exciplex host. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9909-9915	7.1	9
57	Effects of conjugated bridges on the photovoltaic properties of ortho-functionalized perylene diimides for non-fullerene polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13171-13178	7.1	9
56	Synthesis and structural characterization of a novel bis(silyl) platinum(II) complex bearing SiH ₃ ligand. <i>Journal of Organometallic Chemistry</i> , 2014 , 749, 246-250	2.3	9
55	Synthesis and Properties of Triphenylamine- and 9-Phenylcarbazole-cored Star-shaped Terfluorenes: Understanding the Effect of Molecular Dimensionality. <i>Chemistry Letters</i> , 2009 , 38, 392-393	1.7	9
54	Low Threshold Amplified Spontaneous Emission from Efficient Energy Transfer in Blends of Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8576-8583	3.8	9
53	One-step preparation of conjugated homopolymer sub-microspheres via a controllable supramolecular approach toward optoelectronic applications. <i>RSC Advances</i> , 2017 , 7, 14688-14693	3.7	8
52	High-color-quality white electroluminescence and amplified spontaneous emission from a star-shaped single-polymer system with simultaneous three-color emission. <i>Polymer Chemistry</i> , 2017 , 8, 851-859	4.9	8
51	A Rapid Synthesis of High Aspect Ratio Silver Nanowires for High-Performance Transparent Electrodes. <i>Chinese Journal of Chemistry</i> , 2015 , 33, 147-151	4.9	8
50	Extended Star-Shaped Polycyclic Aromatic Hydrocarbons based on Fused Truxenes: Synthesis, Self-Assembly, and Facilely Tunable Emission Properties. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3589-3597	4.5	8
49	A novel high-efficiency white hyperbranched polymer derived from polyfluorene with green and red iridium(III) complexes as the cores. <i>Dyes and Pigments</i> , 2016 , 130, 191-201	4.6	8
48	Facile brush-coated phase poly(9,9-dioctylfluorene) films for efficient and stable pure-blue polymer light-emitting diodes. <i>Organic Electronics</i> , 2019 , 75, 105380	3.5	8
47	Efficient phosphorescent polymer light-emitting devices using a conjugated starburst macromolecule as a cathode interlayer. <i>RSC Advances</i> , 2016 , 6, 10326-10333	3.7	8
46	Multifunctional NaYF ₄ :Yb ³⁺ ,Er ³⁺ @SiO ₂ @Au heterogeneous nanocomposites for upconversion luminescence, temperature sensing and photothermal conversion. <i>RSC Advances</i> , 2017 , 7, 11491-11495	3.7	7
45	Facile synthesis of ultrasmall hexagonal NaYF ₄ :Yb ³⁺ ,Er ³⁺ upconversion nanocrystals through temperature oscillation. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1211-1214	6.8	7

44	Real-time naked-eye recognizable temperature monitoring based on Ho ³⁺ (or Tm ³⁺)-activated NaYF ₄ upconversion nanowires via visual multicolor alteration. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 791-795	7.8	7
43	Arylfluorene based universal hosts for solution-processed RGB and white phosphorescent organic light-emitting devices. <i>RSC Advances</i> , 2015 , 5, 94077-94083	3.7	7
42	Synthesis and structural studies of a rare bis(phosphine) (hydrido) (silyl) platinum(II) complex containing a SiBi single bond. <i>Journal of Organometallic Chemistry</i> , 2015 , 776, 113-116	2.3	7
41	Inverted organic light-emitting devices using a charge-generation unit as an electron injector. <i>Organic Electronics</i> , 2020 , 76, 105445	3.5	7
40	Improved performance of inkjet-printed Ag source/drain electrodes for organic thin-film transistors by overcoming the coffee ring effects. <i>AIP Advances</i> , 2017 , 7, 115008	1.5	6
39	Synthesis, Structural Characterization and Reactivity of a Bis(phosphine)(silyl) Platinum(II) Complex. <i>Chinese Journal of Chemistry</i> , 2015 , 33, 1206-1210	4.9	6
38	Donor-acceptor star-shaped conjugated macroelectrolytes: synthesis, light-harvesting properties, and self-assembly-induced Förster resonance energy transfer. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6730-9	3.4	6
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36	Multilayered phosphorescent polymer light-emitting diodes using a solution-processed n-doped electron transport layer. <i>Journal of Luminescence</i> , 2017 , 186, 87-92	3.8	5
35	Understanding the dependence of performance on the dielectric-semiconductor interface in pentacene-based organic field-effect transistors. <i>Materials Letters</i> , 2017 , 189, 286-289	3.3	5
34	Unexpected One-Pot Synthesis of Diindolotriazatruxene: A Planar Electron-Rich Scaffold Toward Highly π -Extended PAHs. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 1749-1754	3	5
33	Low-Threshold Non-Doped Deep Blue Lasing from Monodisperse Truxene-Cored Conjugated Starbursts with High Photostability. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3442-3448	4.5	5
32	Enhancing Optical Gain Stability for a Deep-Blue Emitter Enabled by a Low-Loss Transparent Matrix. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21569-21578	3.8	5
31	Efficient Phosphorescence by Reducing Intrachain Chromophore Interactions in Dendrimer-Containing Polymers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25464-25469	3.8	5
30	Efficient small molecule organic light-emitting diodes fabricated by brush-coating. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2190-2197	7.1	5
29	In-Depth Investigation of Inkjet-Printed Silver Electrodes over Large-Area: Ink Recipe, Flow, and Solidification. <i>Advanced Materials Interfaces</i> , 2102548	4.6	5
28	Electron-Rich π -Extended Diindolotriazatruxene-Based Chemosensors with Highly Selective and Rapid Responses to Nitroaromatic Explosives. <i>ChemPlusChem</i> , 2019 , 84, 1623-1629	2.8	4
27	Synthesis, structural characterization and reactivity of a bis(phosphine)(silyl) platinum(II) complex. <i>Journal of Molecular Structure</i> , 2015 , 1097, 181-184	3.4	4

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20	Smart Responsive Photoelectric Organic Modulator Integrated with Versatile Optoelectronic Characteristics. <i>Advanced Functional Materials</i> , 2111276	15.6	3
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18	Synthesis, structural characterization and reactivity of a bis(phosphine)(silyl) platinum(II) complex. <i>Journal of Coordination Chemistry</i> , 2015 , 68, 4203-4211	1.6	2
17	Enhanced performance of poly(3-hexylthiophene-2,5-diyl):[6,6]-phenyl-C61-butyric acid methyl ester solar cells by UV irradiation. <i>Thin Solid Films</i> , 2016 , 600, 136-141	2.2	2
16	Alternating pyrene-fluorene linear copolymers: Influence of non-conjugated and conjugated pyrene on thermal and optoelectronic properties. <i>Synthetic Metals</i> , 2013 , 174, 33-41	3.6	2
15	Synthesis and Optical Properties of Starburst Carbazoles Based on 9-Phenylcarbazole Core. <i>Synlett</i> , 2006 , 2006, 2841-2845	2.2	2
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13	Influence of the intramolecular donor-acceptor distance on the performance of double-cable polymers. <i>European Polymer Journal</i> , 2019 , 112, 38-44	5.2	2
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11	Constructing 3D Porous Current Collectors for Stable and Dendrite-Free Lithium Metal Anodes. <i>Advanced Sustainable Systems</i> , 2200010	5.9	2
10	Reduced quenching effects of organic gain media with metallic electrodes via introducing a conjugated macroelectrolyte interlayer. <i>Journal of Applied Physics</i> , 2017 , 121, 035301	2.5	1
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