

Fei Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151
papers

7,433
citations

38
h-index

84
g-index

159
ext. papers

9,150
ext. citations

11.4
avg, IF

6.58
L-index

#	Paper	IF	Citations
151	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2022 , 375, 71-76	33.3	51
150	Incorporation of 2D Perovskite Systems into 3D Perovskite Solar Cells 2022 , 81-114		
149	Efficient and Stable Large Bandgap MAPbBr ₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. <i>ACS Energy Letters</i> , 2022 , 7, 1112-1119	20.1	4
148	Nanoscale Photoexcited Carrier Dynamics in Perovskites.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2388-2395	6.4	0
147	Beyond efficiency fever: Preventing lead leakage for perovskite solar cells. <i>Matter</i> , 2022 , 5, 1137-1161	12.7	7
146	Mixing Matters: Nanoscale Heterogeneity and Stability in Metal Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022 , 7, 471-480	20.1	6
145	Zn ²⁺ -Doped Lead-Free CsMnCl ₃ Nanocrystals Enable Efficient Red Emission with a High Photoluminescence Quantum Yield. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 4688-4694	6.4	1
144	Bifunctional spiro-fluorene/heterocycle cored hole-transporting materials: Role of the heteroatom on the photovoltaic performance of perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 431, 1333-1347	14.7	1
143	Identifying high-performance and durable methylammonium-free lead halide perovskites via high-throughput synthesis and characterization. <i>Energy and Environmental Science</i> , 2021 , 14, 6638-6654	35.4	4
142	Surface lattice engineering through three-dimensional lead iodide perovskitoid for high-performance perovskite solar cells. <i>Chem</i> , 2021 , 7, 774-785	16.2	18
141	Study on Thermal Simulation of LiNi _{0.5} Mn _{1.5} O ₄ /Li ₄ Ti ₅ O ₁₂ Battery. <i>Energy Technology</i> , 2021 , 9, 2000816-5	16.5	0
140	High-performance methylammonium-free ideal-band-gap perovskite solar cells. <i>Matter</i> , 2021 , 4, 1365-1376	17.7	23
139	Structural Stability of Formamidinium- and Cesium-Based Halide Perovskites. <i>ACS Energy Letters</i> , 2021 , 6, 1942-1969	20.1	31
138	Hydrazinium cation mixed FAPbI ₃ -based perovskite with 1D/3D hybrid dimension structure for efficient and stable solar cells. <i>Chemical Engineering Journal</i> , 2021 , 403, 125724	14.7	17
137	Hollow TiO ₂ spheres as mesoporous layer for better efficiency and stability of perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2021 , 866, 158079	5.7	7
136	Breakthrough: Phase-Pure 2D Perovskite Films. <i>Joule</i> , 2021 , 5, 14-15	27.8	4
135	Efficient and Stable Graded CsPbI _{3-x} Br _x Perovskite Solar Cells and Submodules by Orthogonal Processable Spray Coating. <i>Joule</i> , 2021 , 5, 481-494	27.8	34

134	Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. <i>ACS Energy Letters</i> , 2021 , 6, 208-215	20.1	30
133	Wide-Bandgap Metal Halide Perovskites for Tandem Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 232-248	20.1	26
132	Effect of concomitant anti-solvent engineering on perovskite grain growth and its high efficiency solar cells. <i>Science China Materials</i> , 2021 , 64, 267-276	7.1	6
131	SMART Perovskite Growth: Enabling a Larger Range of Process Conditions. <i>ACS Energy Letters</i> , 2021 , 6, 650-658	20.1	4
130	Advances in SnO ₂ -based perovskite solar cells: from preparation to photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19554-19588	13	21
129	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3231-3237	16.4	73
128	Superior photo-carrier diffusion dynamics in organic-inorganic hybrid perovskites revealed by spatiotemporal conductivity imaging. <i>Nature Communications</i> , 2021 , 12, 5009	17.4	3
127	Tunable White Light-Emitting Devices Based on Unilaminar High-Efficiency Zn-Doped Blue CsPbBr ₃ Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8507-8512	6.4	1
126	Polymer additive assisted crystallization of perovskite films for high-performance solar cells. <i>Organic Electronics</i> , 2021 , 96, 106258	3.5	2
125	Mixed solvent atmosphere induces the surface termination state transition of perovskite to achieve matched energy level alignment. <i>Chemical Engineering Journal</i> , 2021 , 424, 130508	14.7	1
124	Inkjet-printed alloy-like cross-linked hole-transport layer for high-performance solution-processed green phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12712-12719	7.1	2
123	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2021 , eabj2637	33.3	2
122	Coherent interlayers expand perovskite opportunities. <i>Joule</i> , 2021 , 5, 3076-3077	27.8	1
121	Triazine-based OLEDs with simplified structure and high efficiency by solution-processed procedure. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 19943-19949	2.1	
120	Hole transport layer-free deep-blue OLEDs with outstanding colour purity and high efficiency. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9184-9188	7.1	4
119	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. <i>Joule</i> , 2020 , 4, 1206-1235	7.8	24
118	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wide-Bandgap Perovskite Solar Cells Beyond 21%. <i>Solar Rrl</i> , 2020 , 4, 2070065	7.1	1
117	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wide-Bandgap Perovskite Solar Cells Beyond 21%. <i>Solar Rrl</i> , 2020 , 4, 2000082	7.1	46

116	Efficient, stable silicon tandem cells enabled by anion-engineered wide-bandgap perovskites. <i>Science</i> , 2020 , 368, 155-160	33.3	240
115	Controllable and efficient hole-injection layers with molybdenum oxide units by solution-processed procedure for OLEDs. <i>Organic Electronics</i> , 2020 , 85, 105868	3.5	
114	An analysis of carrier dynamics in methylammonium lead triiodide perovskite solar cells using cross correlation noise spectroscopy. <i>Applied Physics Letters</i> , 2020 , 116, 253902	3.4	4
113	Advances in two-dimensional organic-inorganic hybrid perovskites. <i>Energy and Environmental Science</i> , 2020 , 13, 1154-1186	35.4	239
112	From Defects to Degradation: A Mechanistic Understanding of Degradation in Perovskite Solar Cell Devices and Modules. <i>Advanced Energy Materials</i> , 2020 , 10, 1904054	21.8	119
111	Enhanced efficiency and stability of organic light-emitting diodes via binary self-assembled monolayers of aromatic and aliphatic compounds on indium tin oxide. <i>Organic Electronics</i> , 2020 , 84, 105752	2.5	0
110	Electronic Coordination Effect of the Regulator on Perovskite Crystal Growth and Its High-Performance Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19439-19446	9.5	7
109	Improving the Performance of Blue Polymer Light-Emitting Diodes Using a Hole Injection Layer with a High Work Function and Nanotexture. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20750-20756	9.5	5
108	Blue emissive dimethylmethylene-bridged triphenylamine derivatives appending cross-linkable groups. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 3754-3760	3.9	0
107	Carbazole-Based Hole-Transport Materials for High-Efficiency and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4492-4498	6.1	22
106	On-device lead sequestration for perovskite solar cells. <i>Nature</i> , 2020 , 578, 555-558	50.4	162
105	Additive Engineering for Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902579	21.8	259
104	Study on modifying the Li/MnO ₂ battery by mixing with the carbon fluoride. <i>Energy Storage</i> , 2020 , 2, e128	2.8	0
103	Mixed-ligand engineering of quasi-2D perovskites for efficient sky-blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1319-1325	7.1	27
102	Position effect of arylamine branches on pyrene-based dopant-free hole transport materials for efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020 , 387, 123965	14.7	21
101	Individual Electron and Hole Mobilities in Lead-Halide Perovskites Revealed by Noncontact Methods. <i>ACS Energy Letters</i> , 2020 , 5, 47-55	20.1	20
100	Inhomogeneous Doping of Perovskite Materials by Dopants from Hole-Transport Layer. <i>Matter</i> , 2020 , 2, 261-272	12.7	22
99	Simple 9,10-dihydrophenanthrene based hole-transporting materials for efficient perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020 , 402, 126298	14.7	5

98	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907757	24	178
97	Room-temperature-processed fullerene single-crystalline nanoparticles for high-performance flexible perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1509-1518	13	19
96	Enhanced Charge Transport by Incorporating Formamidinium and Cesium Cations into Two-Dimensional Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11737-11741	16.4	48
95	Enhanced Charge Transport by Incorporating Formamidinium and Cesium Cations into Two-Dimensional Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 11863-11867	3.6	16
94	Impact of 9-(4-methoxyphenyl) Carbazole and Benzodithiophene Cores on Performance and Stability for Perovskite Solar Cells Based on Dopant-Free Hole-Transporting Materials. <i>Solar Rrl</i> , 2019 , 3, 1900202	7.1	21
93	Regulation of peripheral tert-butyl position: Approaching efficient blue OLEDs based on solution-processable hole-transporting materials. <i>Organic Electronics</i> , 2019 , 71, 85-92	3.5	8
92	A low-cost thiophene-based hole transport material for efficient and stable perovskite solar cells. <i>Organic Electronics</i> , 2019 , 71, 194-198	3.5	7
91	Hole-transporting material based on spirobifluorene unit with perfect amorphous and high stability for efficient OLEDs. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 11440-11450	2.1	4
90	Carrier lifetimes of >1 ns in Sn-Pb perovskites enable efficient all-perovskite tandem solar cells. <i>Science</i> , 2019 , 364, 475-479	33.3	496
89	Modification of ITO anodes with self-assembled monolayers for enhancing hole injection in OLEDs. <i>Applied Physics Letters</i> , 2019 , 114, 153301	3.4	15
88	Self-Seeding Growth for Perovskite Solar Cells with Enhanced Stability. <i>Joule</i> , 2019 , 3, 1452-1463	27.8	83
87	Enhanced Charge Transport in 2D Perovskites via Fluorination of Organic Cation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5972-5979	16.4	170
86	Polymorph-induced photosensitivity change in titanylphthalocyanine revealed by the charge transfer integral. <i>Nanophotonics</i> , 2019 , 8, 787-797	6.3	4
85	Improving Charge Transport via Intermediate-Controlled Crystal Growth in 2D Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1901652	15.6	64
84	Mitigating Measurement Artifacts in TOF-SIMS Analysis of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30911-30918	9.5	29
83	Bimolecular Additives Improve Wide-Band-Gap Perovskites for Efficient Tandem Solar Cells with CIGS. <i>Joule</i> , 2019 , 3, 1734-1745	27.8	131
82	Synthesis of a carbazole-substituted diphenylethylene hole transporting material and application in perovskite solar cells. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 556, 012022	0.4	1
81	Understanding Measurement Artifacts Causing Inherent Cation Gradients in Depth Profiles of Perovskite Photovoltaics with TOF-SIMS 2019 ,		1

80	Carbon Nanotube Bridging Method for Hole Transport Layer-Free Paintable Carbon-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 916-923	9.5	49
79	Boosting the performance and stability of perovskite solar cells with phthalocyanine-based dopant-free hole transporting materials through core metal and peripheral groups engineering. <i>Organic Electronics</i> , 2019 , 64, 71-78	3.5	19
78	Suppressing defects through thiadiazole derivatives that modulate CH ₃ NH ₃ PbI ₃ crystal growth for highly stable perovskite solar cells under dark conditions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4971-4980	12.1	68
77	Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 1145-1152	20.1	94
76	Alcohol-Soluble Electron-Transport Materials for Fully Solution-Processed Green PhOLEDs. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1335-1341	4.5	10
75	Self-assembled monolayer-modified ITO for efficient organic light-emitting diodes: The impact of different self-assemble monolayers on interfacial and electroluminescent properties. <i>Organic Electronics</i> , 2018 , 56, 89-95	3.5	14
74	A Novel trans-1-(9-Anthryl)-2-phenylethene Derivative Containing a Phenanthroimidazole Unit for Application in Organic Light-Emitting Diodes. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 81-88	4.5	12
73	Scalable slot-die coating of high performance perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2442-2449	5.8	109
72	Enhanced stability and optoelectronic properties of MAPbI ₃ films by a cationic surface-active agent for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10825-10834	13	56
71	Organic Single-Crystalline Donor-Acceptor Heterojunctions with Ambipolar Band-Like Charge Transport for Photovoltaics. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800336	4.6	15
70	Mixed cations and mixed halide perovskite solar cell with lead thiocyanate additive for high efficiency and long-term moisture stability. <i>Organic Electronics</i> , 2018 , 53, 249-255	3.5	27
69	Achieving highly efficient blue light-emitting polymers by incorporating a styrylarylene amine unit. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12355-12363	7.1	14
68	Suppressing defects through the synergistic effect of a Lewis base and a Lewis acid for highly efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 3480-3490	35.4	202
67	Organic Single-Crystalline p-n Heterojunctions for High-Performance Ambipolar Field-Effect Transistors and Broadband Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42715-42722	9.5	23
66	Boosting the Stability of Perovskite Solar Cells through a Dopant-Free Tetraphenylbenzidine-Based Hole Transporting Material. <i>ChemistrySelect</i> , 2018 , 3, 13032-13037	1.8	6
65	3D/2D multidimensional perovskites: Balance of high performance and stability for perovskite solar cells. <i>Current Opinion in Electrochemistry</i> , 2018 , 11, 105-113	7.2	41
64	Stability at Scale: Challenges of Module Interconnects for Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2018 , 3, 2502-2503	20.1	23
63	Stable Perovskite Solar Cells based on Hydrophobic Triphenylamine Hole-Transport Materials. <i>Energy Technology</i> , 2017 , 5, 312-320	3.5	29

62	2,9,16,23-Tetrakis(7-coumarinoxy-4-methyl)- metallophthalocyanines -based hole transporting material for mixed-perovskite solar cells. <i>Synthetic Metals</i> , 2017 , 226, 1-6	3.6	18
61	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. <i>Advanced Materials</i> , 2017 , 29, 1606806	24	276
60	The modulation of opto-electronic properties of CH ₃ NH ₃ PbBr ₃ crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 11053-11058	2.1	9
59	Simple dopant-free hole-transporting materials with p- π -conjugated structure for stable perovskite solar cells. <i>Applied Surface Science</i> , 2017 , 416, 124-132	6.7	15
58	Tuning the crystal growth of perovskite thin-films by adding the 2-pyridylthiourea additive for highly efficient and stable solar cells prepared in ambient air. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13448-13456	13	74
57	Novel dopant-free metallophthalocyanines based hole transporting materials for perovskite solar cells: The effect of core metal on photovoltaic performance. <i>Solar Energy</i> , 2017 , 155, 121-129	6.8	32
56	The first transition metal phthalocyanines: sensitizing rubrene emission based on triplet-triplet annihilation. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 1384-1390	4.2	7
55	Dopant-Free Hole-Transport Material with a Tetraphenylethene Core for Efficient Perovskite Solar Cells. <i>Energy Technology</i> , 2017 , 5, 1257-1264	3.5	16
54	Morphology Engineering: A Route to Highly Reproducible and High Efficiency Perovskite Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 1624-1630	8.3	40
53	A Novel Spiro[acridine-9,9'-fluorene] Derivatives Containing Phenanthroimidazole Moiety for Deep-Blue OLED Application. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 3069-3076	4.5	24
52	Dopant-free and low-cost molecular Bee π hole-transporting materials for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11429-11435	7.1	36
51	Synthesis, Spectral Properties of Zinc Hexadecafluorophthalocyanine (ZnPcF ₁₆) and Its Application in Organic Thin Film Transistors. <i>Materials Transactions</i> , 2017 , 58, 103-106	1.3	3
50	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. <i>Nano Energy</i> , 2017 , 41, 469-475	17.1	191
49	Two trans-1-(9-anthryl)-2-phenylethene derivatives as blue-green emitting materials for highly bright organic light-emitting diodes application. <i>Organic Electronics</i> , 2017 , 50, 228-238	3.5	11
48	Dopant-free star-shaped hole-transport materials for efficient and stable perovskite solar cells. <i>Dyes and Pigments</i> , 2017 , 136, 273-277	4.6	73
47	Efficient, Stable, Dopant-Free Hole-Transport Material with a Triphenylamine Core for CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. <i>Energy Technology</i> , 2017 , 5, 1173-1178	3.5	21
46	Synthesis and electrochemical properties of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ cathode material for lithium-ion battery. <i>Ionics</i> , 2016 , 22, 209-218	2.7	14
45	Dopant-Free Donor (D)- π - π Conjugated Hole-Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 2578-2585	8.3	75

44	Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater than 21%. <i>Nature Energy</i> , 2016 , 1,	62.3	1422
43	Studies on the dispersity of polymethacrylate-grafted carbon black in a non-aqueous medium: the influence of monomer structure. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2022-2030 ²¹		3
42	Improvement in photovoltaic performance of perovskite solar cells by interface modification and co-sensitization with novel asymmetry 7-coumarinoxy-4-methyltetrasubstituted metallophthalocyanines. <i>Synthetic Metals</i> , 2016 , 220, 187-193	3.6	20
41	A Novel Dopant-Free Triphenylamine Based Molecular Butterfly-Hole-Transport Material for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1600401	21.8	152
40	The effect of coadsorbent and solvent on the photovoltaic performance of 2,9,16,23-Tetrakis(7-coumarinoxy-4-methyl)-phthalocyaninatocopper-sensitized solar cells. <i>Journal of Molecular Structure</i> , 2016 , 1107, 329-336	3.4	13
39	Molecular design and photovoltaic performance of a novel thiocyanate-based layered organometal perovskite material. <i>Synthetic Metals</i> , 2016 , 215, 56-63	3.6	27
38	Studies on the charging behaviors of copper chromite black in nonpolar media with nonionic surfactants for electrophoretic displays. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 323-330	7.1	4
37	Film-forming hole transporting materials for high brightness flexible organic light-emitting diodes. <i>Dyes and Pigments</i> , 2016 , 125, 36-43	4.6	13
36	Recent Progress of Perovskite Solar Cells. <i>Current Nanoscience</i> , 2016 , 12, 137-156	1.4	36
35	Small molecular hole-transporting and emitting materials for hole-only green organic light-emitting devices. <i>Dyes and Pigments</i> , 2016 , 131, 41-48	4.6	16
34	Application of phenonaphthazine derivatives as hole-transporting materials for perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2016 , 25, 702-708	12	18
33	A trap-assisted ultrasensitive near-infrared organic photomultiple photodetector based on Y-type titanylphthalocyanine nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5584-5592	7.1	21
32	A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16330-16334	13	78
31	A novel asymmetric phthalocyanine-based hole transporting material for perovskite solar cells with an open-circuit voltage above 1.0 V. <i>Synthetic Metals</i> , 2016 , 220, 462-468	3.6	33
30	Synthesis and characterization of Li ₂ Zn _{0.6} Cu _{0.4} Ti ₃ O ₈ anode material via a sol-gel method. <i>Electrochimica Acta</i> , 2015 , 167, 201-206	6.7	26
29	Solution-processed thermally stable amorphous films of small molecular hole injection/transport bi-functional materials and their application in high efficiency OLEDs. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11377-11384	7.1	33
28	Simple Triphenylamine-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>Electrochimica Acta</i> , 2015 , 182, 733-741	6.7	51
27	Charging behavior of carbon black in a low-permittivity medium based on acid-base charging theory. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3980-3988	7.1	7

26	Titanylphthalocyanine as hole transporting material for perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2015 , 24, 756-761	12	26
25	Efficient CH ₃ NH ₃ PbI ₃ perovskite solar cells with 2TPA-n-DP hole-transporting layers. <i>Nano Research</i> , 2015 , 8, 1116-1127	10	60
24	Preparation of titanium dioxide nano-particles modified with poly (methyl methacrylate) and its electrorheological characteristics in Isopar L. <i>Colloid and Polymer Science</i> , 2015 , 293, 473-479	2.4	5
23	Preparation of titanium dioxide nanoparticles modified with methacrylate and their electrophoretic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5263-5269	2.1	2
22	Synthesis of novel s-triazine/carbazole based bipolar molecules and their application in phosphorescent OLEDs. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6563-6571	2.1	3
21	The Synthesis, Characterisation, Photophysical and Thermal Properties, and Photovoltaic Performance of 7-Coumarinoxy-4-Methyltetrasubstituted Metallophthalocyanines. <i>Australian Journal of Chemistry</i> , 2015 , 68, 1025	1.2	12
20	Mesoscopic TiO ₂ /CH ₃ NH ₃ PbI ₃ perovskite solar cells with new hole-transporting materials containing butadiene derivatives. <i>Chemical Communications</i> , 2014 , 50, 6931-4	5.8	157
19	Energy level tuning of TPB-based hole-transporting materials for highly efficient perovskite solar cells. <i>Chemical Communications</i> , 2014 , 50, 15239-42	5.8	128
18	Double-N doping: a new discovery about N-doped TiO ₂ applied in dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 16992-16998	3.7	17
17	Novel photochromic and electrochromic diarylethenes bearing triphenylamine units. <i>RSC Advances</i> , 2014 , 4, 16839-16848	3.7	11
16	A thin pristine non-triarylamine hole-transporting material layer for efficient CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>RSC Advances</i> , 2014 , 4, 32918	3.7	35
15	The synthesis, molecular structure and photophysical properties of 2, 9, 16, 23-tetrakis (7-coumarinoxy-4-methyl)-phthalocyanine sensitizer. <i>Journal of Molecular Structure</i> , 2014 , 1060, 17-23	3.4	12
14	Multi-scale simulation studies on interaction between anionic surfactants and cations. <i>AIP Advances</i> , 2014 , 4, 127110	1.5	3
13	Studies on the Synthetic Process of 4,5-Dicyano Dimethyl Phthalate. <i>Advanced Materials Research</i> , 2014 , 1053, 252-256	0.5	3
12	Novel hole transporting materials with a linear π -conjugated structure for highly efficient perovskite solar cells. <i>Chemical Communications</i> , 2014 , 50, 5829-32	5.8	126
11	Simple way to engineer metal-semiconductor interface for enhanced performance of perovskite organic lead iodide solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5651-6	9.5	88
10	Study on synthesis and properties of novel luminescent hole transporting materials based on N,N'-di(p-tolyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine core. <i>Dyes and Pigments</i> , 2013 , 97, 92-99	4.6	15
9	Anatase TiO ₂ hollow spheres with small dimension fabricated via a simple preparation method for dye-sensitized solar cells with an ionic liquid electrolyte. <i>Electrochimica Acta</i> , 2012 , 60, 422-427	6.7	45

8	Synthesis and photoconductivities of bisazo charge generation materials. <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 330-334		
7	In Situ Synthesized 2D Covalent Organic Framework Nanosheets Induce Growth of High-Quality Perovskite Film for Efficient and Stable Solar Cells. <i>Advanced Functional Materials</i> , 2110030	15.6	5
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