

Zhan'ao Tan

List of Publications by Year in descending order

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228
papers

13,409
citations

23500

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times ranked

12034
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal model of bifacial silicon photovoltaic modules with different backsheets under outdoor conditions. <i>International Journal of Green Energy</i> , 2023, 20, 691-700.	2.1	0
2	Layer-by-layered organic solar cells: Morphology optimizing strategies and processing techniques. <i>Aggregate</i> , 2022, 3, e107.	5.2	26
3	Recent advances of organometallic complexes in emerging photovoltaics. <i>Journal of Polymer Science</i> , 2022, 60, 865-916.	2.0	23
4	Revival of Insulating Polyethylenimine by Creatively Carbonizing with Perylene into Highly Crystallized Carbon Dots as the Cathode Interlayer for High-Performance Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1280-1289.	4.0	19
5	Coordination-Induced Defects Elimination of SnO ₂ Nanoparticles via a Small Electrolyte Molecule for High-Performance Inverted Organic Solar Cells. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	12
6	Efficient interface modification via multi-site coordination for improved efficiency and stability in organic solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 822-829.	15.6	49
7	Recent Advances of Monolithic All-Perovskite Tandem Solar Cells: From Materials to Devices. <i>Chinese Journal of Chemistry</i> , 2022, 40, 856-871.	2.6	11
8	Enhancing the Cycling Stability of Anthraquinone-Based Redox Flow Batteries by Using Thermally Oxidized Carbon Felt. <i>ACS Applied Energy Materials</i> , 2022, 5, 1984-1991.	2.5	14
9	Recent Progress in Semitransparent Organic and Perovskite Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	0.8	6
10	Narrow-bandwidth emissive carbon dots: A rising star in the fluorescent material family. , 2022, 4, 88-114.		49
11	Noncovalent interactions induced self-association in anthraquinone-iron aqueous redox flow batteries. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2045-2052.	2.5	2
12	Improving charge transport and reducing non-radiative energy loss via a nonacyclic carbazole-based third component for over 18% efficiency polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7090-7098.	5.2	14
13	Analysis of Electrode Configuration Effects on Mass Transfer and Organic Redox Flow Battery Performance. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 2915-2925.	1.8	30
14	Biuret Induced Tin Anchoring and Crystallization Regulating for Efficient Lead-Free Tin Halide Perovskite Light-Emitting Diodes. <i>Small</i> , 2022, 18, e2200036.	5.2	24
15	Interface Modification with CuCrO ₂ Nanocrystals for Highly Efficient and Stable Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13352-13360.	4.0	15
16	Morphological Stabilization in Organic Solar Cells via a Fluorene-Based Crosslinker for Enhanced Efficiency and Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1187-1194.	4.0	14
17	Recent Advances in Bismuth-Based Solar Cells: Fundamentals, Fabrication, and Optimization Strategies. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	8
18	Engineering organic-inorganic perovskite planar heterojunction for efficient carbon dots based light-emitting diodes. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	7

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19	Crosslinkable and Chelatable Organic Ligand Enables Interfaces and Grains Collaborative Passivation for Efficient and Stable Perovskite Solar Cells. <i>Small</i> , 2022, 18, e2201820.	5.2	15
20	Solvent polishing engineering for quasi-two-dimensional perovskite blue light-emitting diodes. <i>Chemical Communications</i> , 2022, 58, 7132-7135.	2.2	6
21	Balance PCE, AVT and CRI for good eye comfort semi-transparent organic photovoltaics via Ga ₂ O ₃ or In ₂ O ₃ electron collection layers. <i>Organic Electronics</i> , 2022, , 106572.	1.4	2
22	Self-Assembly Metal Chelate as Ultraviolet Filterable Interface Layer for Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	7
23	Battery performance optimization and multi-component transport enhancement of organic flow battery based on channel section reconstruction. <i>Energy</i> , 2022, 258, 124757.	4.5	8
24	Ternary blend strategy in benzotriazole-based organic photovoltaics for indoor application. <i>Green Energy and Environment</i> , 2021, 6, 920-928.	4.7	23
25	Perovskite Passivation Strategies for Efficient and Stable Solar Cells. <i>Solar Rrl</i> , 2021, 5, .	3.1	23
26	Efficient organic solar cells with low-temperature in situ prepared Ga ₂ O ₃ or In ₂ O ₃ electron collection layers. <i>Science China Materials</i> , 2021, 64, 1095-1104.	3.5	5
27	High-efficiency red perovskite light-emitting diodes based on collaborative optimization of emission layer and transport layers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12367-12373.	2.7	16
28	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2010535.	7.8	55
29	Fluorescent Carbon Dots: Fantastic Electroluminescent Materials for Light-Emitting Diodes. <i>Advanced Science</i> , 2021, 8, 2001977.	5.6	141
30	Recent advances in perovskite/organic integrated solar cells. <i>Rare Metals</i> , 2021, 40, 2763-2777.	3.6	26
31	Highly Efficient and Super Stable Full-Color Quantum Dots Light-Emitting Diodes with Solution-Processed All-Inorganic Charge Transport Layers. <i>Small</i> , 2021, 17, e2007363.	5.2	32
32	Aluminum-Based Surface Polymerization on Carbon Dots with Aggregation-Enhanced Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4530-4536.	2.1	16
33	Intramolecular hydrogen bonds induced high solubility for efficient and stable anthraquinone based neutral aqueous organic redox flow batteries. <i>Journal of Power Sources</i> , 2021, 498, 229896.	4.0	21
34	p-Type Carbon Dots for Effective Surface Optimization for Near-Record Efficiency CsPbI ₂ Br Solar Cells. <i>Small</i> , 2021, 17, e2102272.	5.2	34
35	Efficient Organic Tandem Solar Cells Enabled by Solution-Processed Interconnection Layer and Fine-Tuned Active Layer. <i>Advanced Optical Materials</i> , 2021, 9, 2101246.	3.6	3
36	Realization of high performance for PM6:Y6 based organic photovoltaic cells. <i>Journal of Energy Chemistry</i> , 2021, 61, 29-46.	7.1	54

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37	Size-Controllable Metal Chelates as Both Light Scattering Centers and Electron Collection Layer for High-Performance Polymer Solar Cells. <i>CCS Chemistry</i> , 2021, 3, 37-49.	4.6	12
38	Highly efficient carbon dot-based room-temperature fluorescence-phosphorescence dual emitter. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15577-15582.	2.7	15
39	Multi-Functional Solid Additive Induced Favorable Vertical Phase Separation and Ordered Molecular Packing for Highly Efficient Layer-by-Layer Organic Solar Cells. <i>Small</i> , 2021, 17, e2103497.	5.2	49
40	Red Phosphorescent Carbon Quantum Dot Organic Framework-Based Electroluminescent Light-Emitting Diodes Exceeding 5% External Quantum Efficiency. <i>Journal of the American Chemical Society</i> , 2021, 143, 18941-18951.	6.6	54
41	β -Diketone Coordination Strategy for Highly Efficient and Stable Pb-Sn Mixed Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11772-11778.	2.1	14
42	Strategies Toward Extending the Near-Infrared Photovoltaic Response of Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900280.	3.1	13
43	Microwave-assisted <i>in situ</i> large scale synthesis of a carbon dots@g-C ₃ N ₄ composite phosphor for white light-emitting devices. <i>Materials Chemistry Frontiers</i> , 2020, 4, 517-523.	3.2	34
44	Perylene monoimide and naphthalene-annulated [3,3,3]propellanes: synthesis and device applications. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3539-3545.	3.2	8
45	Diverse applications of MoO ₃ for high performance organic photovoltaics: fundamentals, processes and optimization strategies. <i>Journal of Materials Chemistry A</i> , 2020, 8, 978-1009.	5.2	70
46	Highly efficient ternary polymer solar cells based on a novel double-cabled third component with the same molecular fragments of donor and acceptor moieties. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110326.	3.0	2
47	Lead acetate produced from lead-acid battery for efficient perovskite solar cells. <i>Nano Energy</i> , 2020, 69, 104380.	8.2	30
48	Water-Soluble SnO ₂ Nanoparticles as the Electron Collection Layer for Efficient and Stable Inverted Organic Tandem Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 12662-12671.	2.5	12
49	Crosslinkable metal chelate as the electron transport layer for efficient and stable inverted polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2995-3002.	3.2	6
50	High Performance Tandem Solar Cells with Inorganic Perovskite and Organic Conjugated Molecules to Realize Complementary Absorption. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9596-9604.	2.1	35
51	A General Approach of Adjusting the Surface-Free Energy of the Interfacial Layer for High-Performance Organic Solar Cells. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000054.	2.7	14
52	Printable SnO ₂ cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. <i>Science China Chemistry</i> , 2020, 63, 957-965.	4.2	38
53	Novel cathode buffer layer of Al(acac) ₃ enables efficient, large area and stable semi-transparent organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2072-2080.	3.2	22
54	A co-crystallization induced surface modification strategy with cyanuric acid modulates the bandgap emission of carbon dots. <i>Nanoscale</i> , 2020, 12, 10987-10993.	2.8	46

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55	Facile Method of Solvent-Flushing To Building Component Distribution within Photoactive Layers for High-Performance Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31459-31466.	4.0	10
56	Recent advances and comprehensive insights on nickel oxide in emerging optoelectronic devices. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4415-4458.	2.5	33
57	High Performance Quasi-2D Perovskite Sky-Blue Light-Emitting Diodes Using a Dual-Ligand Strategy. <i>Small</i> , 2020, 16, e2002940.	5.2	65
58	Deep-blue carbon dots offer high colour purity. <i>Nature Photonics</i> , 2020, 14, 130-131.	15.6	20
59	Efficient Two-Dimensional Tin Halide Perovskite Light-Emitting Diodes via a Spacer Cation Substitution Strategy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1120-1127.	2.1	97
60	High-Efficiency Fluorescence through Bioinspired Supramolecular Self-Assembly. <i>ACS Nano</i> , 2020, 14, 2798-2807.	7.3	49
61	Multifarious Chiral Nanoarchitectures Serving as Handed-Selective Fluorescence Filters for Generating Full-Color Circularly Polarized Luminescence. <i>ACS Nano</i> , 2020, 14, 3208-3218.	7.3	76
62	Self-assembled bulk heterojunctions from integral molecules with nonconjugately linked donor and acceptor units for photovoltaic applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3190-3210.	2.5	3
63	Material and device engineering for high-performance blue quantum dot light-emitting diodes. <i>Nanoscale</i> , 2020, 12, 13186-13224.	2.8	57
64	Vertically Oriented Bil ₃ Template Featured Bil ₃ /Polymer Heterojunction for High Photocurrent and Long-Term Stable Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32509-32516.	4.0	27
65	Low-temperature in-situ preparation of ZnO electron extraction layer for efficient inverted polymer solar cells. <i>Organic Electronics</i> , 2019, 74, 82-88.	1.4	18
66	P&O.6: Highly Luminescent Blue Quantum Dots Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 871-874.	0.1	0
67	Multifunctional p-Type Carbon Quantum Dots: a Novel Hole Injection Layer for High-Performance Perovskite Light-Emitting Diodes with Significantly Enhanced Stability. <i>Advanced Optical Materials</i> , 2019, 7, 1901299.	3.6	52
68	Expanding the Light Harvesting of CsPb ₂ Br to Near Infrared by Integrating with Organic Bulk Heterojunction for Efficient and Stable Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37991-37998.	4.0	25
69	Enhancing charge transport in an organic photoactive layer via vertical component engineering for efficient perovskite/organic integrated solar cells. <i>Nanoscale</i> , 2019, 11, 4035-4043.	2.8	22
70	Multifunctional bipyramid-Au@ZnO core-shell nanoparticles as a cathode buffer layer for efficient non-fullerene inverted polymer solar cells with improved near-infrared photoresponse. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2667-2676.	5.2	27
71	Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15887-15894.	5.2	83
72	A pentacyclic S-N-heteroacene based electron acceptor with strong near-infrared absorption for efficient organic solar cells. <i>Chemical Communications</i> , 2019, 55, 7057-7060.	2.2	20

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73	Electroluminescent Warm White Light-Emitting Diodes Based on Passivation Enabled Bright Red Bandgap Emission Carbon Quantum Dots. <i>Advanced Science</i> , 2019, 6, 1900397.	5.6	174
74	Performance Evaluation of Electron Transport Layers based on PCBM/P3HT BHJ Organic Solar Cells. , 2019, , .		0
75	Achieving Balanced Charge Injection of Blue Quantum Dot Light-Emitting Diodes through Transport Layer Doping Strategies. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 960-965.	2.1	84
76	Tandem structure: a breakthrough in power conversion efficiency for highly efficient polymer solar cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 910-934.	2.5	28
77	High-Performance Blue Quantum Dot Light-Emitting Diodes with Balanced Charge Injection. <i>Advanced Electronic Materials</i> , 2019, 5, 1800794.	2.6	34
78	Enhancing the electron blocking ability of n-type MoO ₃ by doping with p-type NiO for efficient nonfullerene polymer solar cells. <i>Organic Electronics</i> , 2019, 68, 168-175.	1.4	31
79	A Novel Photovoltaic Array Outlier Cleaning Algorithm Based on Sliding Standard Deviation Mutation. <i>Energies</i> , 2019, 12, 4316.	1.6	6
80	Green-solvent-processable strategies for achieving large-scale manufacture of organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22826-22847.	5.2	76
81	Semitransparent solar cells with over 12% efficiency based on a new low bandgap fluorinated small molecule acceptor. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2483-2490.	3.2	55
82	Flow characteristics in the containment cooling pools of small modular reactors. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 445-460.	2.5	3
83	Passivation of the grain boundaries of CH ₃ NH ₃ PbI ₃ using carbon quantum dots for highly efficient perovskite solar cells with excellent environmental stability. <i>Nanoscale</i> , 2019, 11, 115-124.	2.8	164
84	New Insights into the Formation and Color-Tunable Optical Properties of Multinary Cu ₂ Ch ₂ Zn ₂ Based Chalcogenide Semiconductor Nanocrystals. <i>Advanced Optical Materials</i> , 2018, 6, 1701389.	3.6	37
85	Engineering the interconnecting layer for efficient inverted tandem polymer solar cells with absorption complementary fullerene and nonfullerene acceptors. <i>Solar Energy Materials and Solar Cells</i> , 2018, 180, 1-9.	3.0	26
86	Boosting photocurrent of GaInP top-cell for current-matched III-V monolithic multiple-junction solar cells via plasmonic decahedral-shaped Au nanoparticles. <i>Solar Energy</i> , 2018, 166, 181-186.	2.9	8
87	Extending absorption of near-infrared wavelength range for high efficiency CIGS solar cell via adjusting energy band. <i>Current Applied Physics</i> , 2018, 18, 484-490.	1.1	31
88	Efficient perovskite/organic integrated solar cells with extended photoresponse to 930 nm and enhanced near-infrared external quantum efficiency of over 50%. <i>Nanoscale</i> , 2018, 10, 3245-3253.	2.8	33
89	Optical-Electrical-Chemical Engineering of PEDOT:PSS by Incorporation of Hydrophobic Nafion for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3902-3911.	4.0	89
90	Synergy of a titanium chelate electron collection layer and a vertical phase separated photoactive layer for efficient inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7257-7264.	5.2	20

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91	Broadening the Photoresponse to Near-Infrared Region by Cooperating Fullerene and Nonfullerene Acceptors for High Performance Ternary Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700492.	2.0	10
92	Solution-Processed Titanium Chelate Used as Both Electrode Modification Layer and Intermediate Layer for Efficient Inverted Tandem Polymer Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018, 36, 194-198.	2.6	19
93	Bright prospect of using alcohol-soluble Nb ₂ O ₅ as anode buffer layer for efficient polymer solar cells based on fullerene and non-fullerene acceptors. <i>Organic Electronics</i> , 2018, 52, 323-328.	1.4	14
94	All-solution-processed perovskite light-emitting diodes with all metal oxide transport layers. <i>Chemical Communications</i> , 2018, 54, 13283-13286.	2.2	42
95	Manipulating the Trade-off Between Quantum Yield and Electrical Conductivity for High-Brightness Quasi-2D Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018, 28, 1804187.	7.8	113
96	Low-temperature solution-processed vanadium oxide as hole transport layer for efficient and stable perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21746-21754.	1.3	40
97	Efficient Polymer Solar Cells with Alcohol-Soluble Zirconium(IV) Isopropoxide Cathode Buffer Layer. <i>Energies</i> , 2018, 11, 328.	1.6	6
98	Two-dimensional organic-inorganic hybrid perovskite: from material properties to device applications. <i>Science China Materials</i> , 2018, 61, 1257-1277.	3.5	84
99	Constructing Desired Vertical Component Distribution Within a PBDB-T:ITIC-M Photoactive Layer via Fine-Tuning the Surface Free Energy of a Titanium Chelate Cathode Buffer Layer. <i>Frontiers in Chemistry</i> , 2018, 6, 292.	1.8	21
100	Perfect Complementary in Absorption Spectra with Fullerene, Nonfullerene Acceptors and Medium Band Gap Donor for High-Performance Ternary Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29831-29839.	4.0	15
101	Enhancing the Performance of Blue Quantum Dots Light-Emitting Diodes through Interface Engineering with Deoxyribonucleic Acid. <i>Advanced Optical Materials</i> , 2018, 6, 1800578.	3.6	25
102	Fine Tuning the Light Distribution within the Photoactive Layer by Both Solution-Processed Anode and Cathode Interlayers for High Performance Polymer Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800141.	3.1	10
103	Engineering triangular carbon quantum dots with unprecedented narrow bandwidth emission for multicolored LEDs. <i>Nature Communications</i> , 2018, 9, 2249.	5.8	676
104	Enhanced Electron Injection and Exciton Confinement for Pure Blue Quantum-Dot Light-Emitting Diodes by Introducing Partially Oxidized Aluminum Cathode. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	1
105	A Review of the Challenges and Possibilities of Using Carbon Nanotubes in Organic Solar Cells. <i>Science of Advanced Materials</i> , 2018, 10, 747-760.	0.1	15
106	Growing Carbon Quantum Dots for Optoelectronic Devices. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 1250-1263.	2.2	13
107	Decahedral-shaped Au nanoparticles as plasmonic centers for high performance polymer solar cells. <i>Organic Electronics</i> , 2017, 43, 33-40.	1.4	24
108	Light-Emitting Diodes: Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Light-Emitting Diodes (Adv. Mater. 3/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	5

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109	Effect of Energy Alignment, Electron Mobility, and Film Morphology of Perylene Diimide Based Polymers as Electron Transport Layer on the Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 10983-10991.	4.0	76
110	Highly reproducible and uniform SERS substrates based on Ag nanoparticles with optimized size and gap. Photonics and Nanostructures - Fundamentals and Applications, 2017, 23, 58-63.	1.0	17
111	Pure Blue and Highly Luminescent Quantum Dot Light-Emitting Diodes with Enhanced Electron Injection and Exciton Confinement via Partially Oxidized Aluminum Cathode. Advanced Optical Materials, 2017, 5, 1700035.	3.6	39
112	Thiophene Arylamine Hole-Transporting Materials in Perovskite Solar Cells: Substitution Position Effect. Energy Technology, 2017, 5, 1788-1794.	1.8	44
113	Two cyclohexanofullerenes used as electron transport materials in perovskite solar cells. Inorganica Chimica Acta, 2017, 468, 146-151.	1.2	11
114	Tuning driving forces for preparation of faceted single crystalline Au nanoparticles from Au films. Materials Characterization, 2017, 128, 1-6.	1.9	0
115	Engineering the vertical concentration distribution within the polymer:fullerene blends for high performance inverted polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 2319-2327.	5.2	37
116	Tetraphenylmethane Arylamine Hole-Transporting Materials for Perovskite Solar Cells. ChemSusChem, 2017, 10, 968-975.	3.6	45
117	Influence of T-linker on triphenylamine-based hole transporting materials in perovskite solar cells. Dyes and Pigments, 2017, 139, 129-135.	2.0	69
118	Synthesis of highly fluorescent InP/ZnS small-core/thick-shell tetrahedral-shaped quantum dots for blue light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 8243-8249.	2.7	93
119	Achieving mixed halide perovskite via halogen exchange during vapor-assisted solution process for efficient and stable perovskite solar cells. Organic Electronics, 2017, 50, 33-42.	1.4	23
120	Molecular Engineering of Simple Benzene Arylamine Hole-Transporting Materials for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 27657-27663.	4.0	42
121	Enhancing the crystallinity of HC(NH ₂) ₂ PbI ₃ film by incorporating methylammonium halide intermediate for efficient and stable perovskite solar cells. Nano Energy, 2017, 40, 248-257.	8.2	72
122	Anthracene Arylamine hole transporting materials for perovskite solar cells. Chemical Communications, 2017, 53, 9558-9561.	2.2	45
123	Efficient and Stable Pure Green All-Inorganic Perovskite CsPbBr ₃ Light-Emitting Diodes with a Solution-Processed NiO Interlayer. Journal of Physical Chemistry C, 2017, 121, 28132-28138.	1.5	100
124	Incorporating an Electrode Modification Layer with a Vertical Phase Separated Photoactive Layer for Efficient and Stable Inverted Nonfullerene Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 43871-43879.	4.0	23
125	Efficient Planar Structured Perovskite Solar Cells with Enhanced Open-Circuit Voltage and Suppressed Charge Recombination Based on a Slow Grown Perovskite Layer from Lead Acetate Precursor. ACS Applied Materials & Interfaces, 2017, 9, 41937-41944.	4.0	23
126	High performance polymer solar cells with electron extraction and light-trapping dual functional cathode interfacial layer. Nano Energy, 2017, 31, 201-209.	8.2	27

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127	Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Light-Emitting Diodes. <i>Advanced Materials</i> , 2017, 29, 1604436.	11.1	643
128	The Effect of Donor and Nonfullerene Acceptor Inhomogeneous Distribution within the Photoactive Layer on the Performance of Polymer Solar Cells with Different Device Structures. <i>Polymers</i> , 2017, 9, 571.	2.0	18
129	Blue LEDs: Pure Blue and Highly Luminescent Quantum-Dot Light-Emitting Diodes with Enhanced Electron Injection and Exciton Confinement via Partially Oxidized Aluminum Cathode (Advanced) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	1.0	14
130	Mesoporous TiO ₂ Nanowire Film for Dye-Sensitized Solar Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5605-5610.	0.9	14
131	Diketopyrrolopyrrole or benzodithiophene-arylamine small-molecule hole transporting materials for stable perovskite solar cells. <i>RSC Advances</i> , 2016, 6, 87454-87460.	1.7	26
132	Formulation engineering for optimizing ternary electron acceptors exemplified by isomeric PC ₇₁ BM in planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18776-18782.	5.2	26
133	Efficient planar perovskite solar cells prepared via a low-pressure vapor-assisted solution process with fullerene/TiO ₂ as an electron collection bilayer. <i>RSC Advances</i> , 2016, 6, 78585-78594.	1.7	27
134	Morphology Engineering for High-Performance and Multicolored Perovskite Light-Emitting Diodes with Simple Device Structures. <i>Small</i> , 2016, 12, 4412-4420.	5.2	125
135	Regular Hexagonal Gold Nanoprisms Fabricated by a Physical Method: Toward Use as Ultrasensitive Surface-Enhanced Raman Scattering Substrates. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 254-260.	1.2	5
136	Tailoring film agglomeration for preparation of silver nanoparticles with controlled morphology. <i>Materials and Design</i> , 2016, 103, 315-320.	3.3	16
137	Efficient synthesis and photovoltaic properties of highly rigid perylene-embedded benzothiazolyls. <i>Polymer Chemistry</i> , 2016, 7, 780-784.	1.9	15
138	Efficient lead acetate sourced planar heterojunction perovskite solar cells with enhanced substrate coverage via one-step spin-coating. <i>Organic Electronics</i> , 2016, 33, 194-200.	1.4	48
139	The growth of a CH ₃ NH ₃ PbI ₃ thin film using simplified close space sublimation for efficient and large dimensional perovskite solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 1486-1494.	15.6	104
140	Optimization of the Energy Level Alignment between the Photoactive Layer and the Cathode Contact Utilizing Solution-Processed Hafnium Acetylacetonate as Buffer Layer for Efficient Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 432-441.	4.0	24
141	Management of the light distribution within the photoactive layer for high performance conventional and inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1915-1922.	5.2	12
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