

# Zonglong Zhu

## List of Publications by Citations

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136  
papers

11,178  
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58  
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143  
ext. papers

13,855  
ext. citations

14.9  
avg, IF

6.79  
L-index

#	Paper	IF	Citations
136	Nonfullerene Acceptor Molecules for Bulk Heterojunction Organic Solar Cells. <i>Chemical Reviews</i> , <b>2018</b> , 118, 3447-3507	68.1	1051
135	A strongly coupled graphene and FeNi double hydroxide hybrid as an excellent electrocatalyst for the oxygen evolution reaction. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7584-8	16.4	595
134	Efficiency enhancement of perovskite solar cells through fast electron extraction: the role of graphene quantum dots. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3760-3	16.4	590
133	Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells Using Highly Crystalline SnO <sub>2</sub> Nanocrystals as the Robust Electron-Transporting Layer. <i>Advanced Materials</i> , <b>2016</b> , 28, 6478-84	24	382
132	Nitrogen-Doped Co O Mesoporous Nanowire Arrays as an Additive-Free Air-Cathode for Flexible Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602868	24	353
131	Interface Engineering for All-Inorganic CsPbI <sub>3</sub> Br Perovskite Solar Cells with Efficiency over 14%. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802509	24	269
130	Carbon quantum dots as a visible light sensitizer to significantly increase the solar water splitting performance of bismuth vanadate photoanodes. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 772-779	35.4	241
129	High performance flexible solid-state asymmetric supercapacitors from MnO <sub>2</sub> /ZnO core-shell nanorods/specially reduced graphene oxide. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1331-1336	7.1	241
128	Effects of a Molecular Monolayer Modification of NiO Nanocrystal Layer Surfaces on Perovskite Crystallization and Interface Contact toward Faster Hole Extraction and Higher Photovoltaic Performance. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2950-2958	15.6	239
127	Mixed Cation FAPbI <sub>3</sub> /PbI <sub>3</sub> with Enhanced Phase and Ambient Stability toward High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601307	21.8	237
126	High-performance graphene-based hole conductor-free perovskite solar cells: Schottky junction enhanced hole extraction and electron blocking. <i>Small</i> , <b>2015</b> , 11, 2269-74	11	206
125	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. <i>Nature Communications</i> , <b>2020</b> , 11, 177	17.4	200
124	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 20134-20142	16.4	185
123	Co intake mediated formation of ultrathin nanosheets of transition metal LDH-an advanced electrocatalyst for oxygen evolution reaction. <i>Chemical Communications</i> , <b>2015</b> , 51, 1120-3	5.8	162
122	High performance inverted structure perovskite solar cells based on a PCBM:polystyrene blend electron transport layer. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9098-9102	13	160
121	High-Performance Hole-Extraction Layer of Sol-Gel-Processed NiO Nanocrystals for Inverted Planar Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 12779-12783	3.6	158
120	Inorganic CsPb <sub>1-x</sub> Sn <sub>x</sub> I <sub>3</sub> Br <sub>2</sub> for Efficient Wide-Bandgap Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800525	21.8	154

119	Effects of formamidinium and bromide ion substitution in methylammonium lead triiodide toward high-performance perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 22, 328-337	17.1	152
118	Realizing Efficient Lead-Free Formamidinium Tin Triiodide Perovskite Solar Cells via a Sequential Deposition Route. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703800	24	151
117	Rational Design of Dipolar Chromophore as an Efficient Dopant-Free Hole-Transporting Material for Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11833-9	16.4	150
116	Polyfluorene Derivatives are High-Performance Organic Hole-Transporting Materials for Inorganic/Organic Hybrid Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7357-7365	15.6	150
115	Highly Efficient Porphyrin-Based OPV/Perovskite Hybrid Solar Cells with Extended Photoresponse and High Fill Factor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703980	24	148
114	Iron-doping-enhanced photoelectrochemical water splitting performance of nanostructured WO <sub>3</sub> : a combined experimental and theoretical study. <i>Nanoscale</i> , <b>2015</b> , 7, 2933-40	7.7	143
113	Modulation of Defects and Interfaces through Alkylammonium Interlayer for Efficient Inverted Perovskite Solar Cells. <i>Joule</i> , <b>2020</b> , 4, 1248-1262	27.8	143
112	A Non-fullerene Acceptor with Enhanced Intermolecular $\pi$ -Core Interaction for High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 15246-15251	16.4	138
111	Cobalt-embedded nitrogen doped carbon nanotubes: a bifunctional catalyst for oxygen electrode reactions in a wide pH range. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4048-55	9.5	137
110	Recent progress in the development of anodes for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4634-4658	13	132
109	An Azaacene Derivative as Promising Electron-Transport Layer for Inverted Perovskite Solar Cells. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2135-8	4.5	122
108	High-performance hole-extraction layer of sol-gel-processed NiO nanocrystals for inverted planar perovskite solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12571-5	16.4	121
107	Dopant-Free Organic Hole-Transporting Material for Efficient and Stable Inverted All-Inorganic and Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908011	24	120
106	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 934-940	28.7	119
105	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2665-2670	16.4	112
104	A quasi-quantum well sensitized solar cell with accelerated charge separation and collection. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9531-9	16.4	101
103	A Low-Temperature, Solution Processable Tin Oxide Electron-Transporting Layer Prepared by the Dual-Fuel Combustion Method for Efficient Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600122	4.6	94
102	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8999-9005	16.4	94

101	A Low-Temperature, Solution-Processable Organic Electron-Transporting Layer Based on Planar Coronene for High-performance Conventional Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 10786-10793	24.9	91
100	4-Tert-butylpyridine Free Organic Hole Transporting Materials for Stable and Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700683	21.8	91
99	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. <i>Chemical Science</i> , <b>2018</b> , 9, 2698-2704	9.4	87
98	Efficient large guanidinium mixed perovskite solar cells with enhanced photovoltage and low energy losses. <i>Chemical Communications</i> , <b>2019</b> , 55, 4315-4318	5.8	85
97	Highly Efficient and Stable Perovskite Solar Cells Enabled by All-Crosslinked Charge-Transporting Layers. <i>Joule</i> , <b>2018</b> , 2, 168-183	27.8	84
96	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17724-17730	16.4	83
95	Organometallic-functionalized interfaces for highly efficient inverted perovskite solar cells.. <i>Science</i> , <b>2022</b> , 376, 416-420	33.3	81
94	Over 17% Efficiency Binary Organic Solar Cells with Photoresponses Reaching 1000 nm Enabled by Selenophene-Fused Nonfullerene Acceptors. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 9-15	20.1	79
93	A 0D/3D Heterostructured All-Inorganic Halide Perovskite Solar Cell with High Performance and Enhanced Phase Stability. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904735	24	77
92	Mesoporous SnO <sub>2</sub> Single crystals as an effective electron collector for perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 18265-8	3.6	74
91	Enhanced Ambient Stability of Efficient Perovskite Solar Cells by Employing a Modified Fullerene Cathode Interlayer. <i>Advanced Science</i> , <b>2016</b> , 3, 1600027	13.6	74
90	A Nonfullerene Semitransparent Tandem Organic Solar Cell with 10.5% Power Conversion Efficiency. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800529	21.8	71
89	Highly crystalline Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles as efficient electron-transporting layers toward stable inverted and flexible conventional perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15294-15307	13.7	70
88	Co(II) <sub>1-x</sub> Co(0) <sub>x</sub> /3Mn(III) <sub>2x</sub> /3S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13348-59	9.5	65
87	Tunable Band Gap and Long Carrier Recombination Lifetime of Stable Mixed CH <sub>3</sub> NH <sub>3</sub> PbxSn <sub>1-x</sub> Br <sub>3</sub> Single Crystals. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1556-1565	9.6	63
86	Boosting Photovoltaic Performance for Lead Halide Perovskites Solar Cells with BF <sub>4</sub> <sup>-</sup> Anion Substitutions. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808833	15.6	62
85	Fluoroalkyl-substituted fullerene/perovskite heterojunction for efficient and ambient stable perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 30, 417-425	17.1	61
84	Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003177	21.8	61

83	Pseudo-bilayer architecture enables high-performance organic solar cells with enhanced exciton diffusion length. <i>Nature Communications</i> , <b>2021</b> , 12, 468	17.4	61
82	Spiro-Phenylpyrazole-9,9'-Thioxanthene Analogues as Hole-Transporting Materials for Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700823	21.8	58
81	Origin of the Different Photoelectrochemical Performance of Mesoporous BiVO <sub>4</sub> Photoanodes between the BiVO <sub>4</sub> and the FTO Side Illumination. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23350-23357	23.8	58
80	Building high-efficiency CdS/CdSe-sensitized solar cells with a hierarchically branched double-layer architecture. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 4000-5	9.5	58
79	Exploitation of two-dimensional conjugated covalent organic frameworks based on tetraphenylethylene with bicarbazole and pyrene units and applications in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11448-11459	13	58
78	Low-temperature electrodeposited crystalline SnO <sub>2</sub> as an efficient electron-transporting layer for conventional perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 164, 47-55	6.4	57
77	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , <b>2020</b> , 4, 2000687	12.8	56
76	Excess Cesium Iodide Induces Spinodal Decomposition of CsPbI <sub>3</sub> Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 194-199	6.4	55
75	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15935-15943	16.4	54
74	Epitaxial growth of ZnO Nanodisks with large exposed polar facets on nanowire arrays for promoting photoelectrochemical water splitting. <i>Small</i> , <b>2014</b> , 10, 4760-9	11	53
73	A Dopant-Free Polymeric Hole-Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902600	21.8	52
72	Vertical Orientated Dion-Jacobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. <i>Small Methods</i> , <b>2020</b> , 4, 1900831	12.8	52
71	A PCBM Electron Transport Layer Containing Small Amounts of Dual Polymer Additives that Enables Enhanced Perovskite Solar Cell Performance. <i>Advanced Science</i> , <b>2016</b> , 3, 1500353	13.6	52
70	Facile Thiol-Ene Thermal Crosslinking Reaction Facilitated Hole-Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601165	21.8	50
69	Enhanced Moisture Stability of Cesium-Containing Compositional Perovskites by a Feasible Interfacial Engineering. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700598	4.6	49
68	Improved Efficiency and Stability of Pb/Sn Binary Perovskite Solar Cells Fabricated by Galvanic Displacement Reaction. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802774	21.8	48
67	Composition Engineering of All-Inorganic Perovskite Film for Efficient and Operationally Stable Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001764	15.6	42
66	Solar-powered overall water splitting system combing metal-organic frameworks derived bimetallic nanohybrids based electrocatalysts and one organic solar cell. <i>Nano Energy</i> , <b>2019</b> , 56, 82-91	17.1	42

65	All-Inorganic CsPbI <sub>3</sub> Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005930	15.6	42
64	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7227-7233	16.4	42
63	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801214	21.8	40
62	Hybrid Perovskite-Organic Flexible Tandem Solar Cell Enabling Highly Efficient Electrocatalysis Overall Water Splitting. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000361	21.8	37
61	Boosting the Performance of Environmentally Friendly Quantum Dot-Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903698	21.8	37
60	Efficient and UV-stable perovskite solar cells enabled by side chain-engineered polymeric hole-transporting layers. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12999-13004	13	36
59	Close-Packed Colloidal SiO <sub>2</sub> as a Nanoreactor: Generalized Synthesis of Metal Oxide Mesoporous Single Crystals and Mesocrystals. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5700-5709	9.6	36
58	Strongly Coupled NiCoO Nanocrystal/MXene Hybrid through In Situ Ni/Co-F Bonds for Efficient Wearable Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44639-44647	9.5	36
57	Dopant-free dicyanofluoranthene-based hole transporting material with low cost enables efficient flexible perovskite solar cells. <i>Nano Energy</i> , <b>2021</b> , 82, 105701	17.1	35
56	Hierarchical Dual-Scaffolds Enhance Charge Separation and Collection for High Efficiency Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600484	4.6	34
55	Theoretical calculation guided electrocatalysts design: Nitrogen saturated porous Mo <sub>2</sub> C nanostructures for hydrogen production. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117891	21.8	33
54	Minimized surface deficiency on wide-bandgap perovskite for efficient indoor photovoltaics. <i>Nano Energy</i> , <b>2020</b> , 78, 105377	17.1	32
53	Dopant-Free Crossconjugated Hole-Transporting Polymers for Highly Efficient Perovskite Solar Cells. <i>Advanced Science</i> , <b>2020</b> , 7, 1903331	13.6	29
52	Recent Progresses in Electrochemical Carbon Dioxide Reduction on Copper-Based Catalysts toward Multicarbon Products. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102151	15.6	28
51	Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105539	24	27
50	The nanoscale carbon p-n junction between carbon nanotubes and N,B-codoped holey graphene enhances the catalytic activity towards selective oxidation. <i>Chemical Communications</i> , <b>2014</b> , 50, 7517-20	5.8	26
49	Trihydrazine Dihydriodide-Assisted Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900285	7.1	25
48	Improved Ambient-Stable Perovskite Solar Cells Enabled by a Hybrid Polymeric Electron-Transporting Layer. <i>ChemSusChem</i> , <b>2016</b> , 9, 2586-2591	8.3	24

47	Modifying Surface Termination of CsPbI <sub>3</sub> Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009515	15.6	24
46	Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 13090-13128	58.5	23
45	Interfacial Modification through a Multifunctional Molecule for Inorganic Perovskite Solar Cells with over 18% Efficiency. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000205	7.1	22
44	Magnetic-field-assisted aerosol pyrolysis synthesis of iron pyrite sponge-like nanochain networks as cost-efficient counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5508-5515	13	22
43	Improving Photovoltaic Performance Using Perovskite/Surface-Modified Graphitic Carbon Nitride Heterojunction. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900413	7.1	22
42	A Vinylene-Linker-Based Polymer Acceptor Featuring Co-planar and Rigid Molecular Conformation Enables High-Performance All-Polymer Solar Cells.. <i>Advanced Materials</i> , <b>2022</b> , e2200361	24	22
41	Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101768	21.8	18
40	Technical Challenges and Perspectives for the Commercialization of Solution-Processable Solar Cells. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000960	6.8	18
39	In situ growth of a TiO <sub>2</sub> layer on a flexible Ti substrate targeting the interface recombination issue of BiVO <sub>4</sub> photoanodes for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20195-20201	13	17
38	Highly Efficient and Rapid Inactivation of Coronavirus on Non-Metal Hydrophobic Laser-Induced Graphene in Mild Conditions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101195	15.6	17
37	Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103236	21.8	17
36	Enhanced Near-Infrared Photoresponse of Inverted Perovskite Solar Cells Through Rational Design of Bulk-Heterojunction Electron-Transporting Layers. <i>Advanced Science</i> , <b>2019</b> , 6, 1901714	13.6	16
35	An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics. <i>Nano Energy</i> , <b>2022</b> , 93, 106853	17.1	15
34	Selenium-Containing Organic Photovoltaic Materials. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 3906-3916	14.3	15
33	Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104369	15.6	15
32	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9145-9149	3.6	14
31	Improved stability and efficiency of perovskite/organic tandem solar cells with an all-inorganic perovskite layer. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 19778-19787	13	13
30	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 20437-20442	16.4	13

29	Engineering Ternary Copper-Cobalt Sulfide Nanosheets as High-performance Electrocatalysts toward Oxygen Evolution Reaction. <i>Catalysts</i> , <b>2019</b> , 9, 459	4	12
28	A review of hard carbon anode: Rational design and advanced characterization in potassium ion batteries. <i>Information Materials</i> ,	23.1	12
27	Dopant-Free Hole-Transporting Material with Enhanced Intermolecular Interaction for Efficient and Stable n-i-p Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100967	21.8	11
26	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17888-17894	36.6	10
25	Fabrication and Enhanced Rectifying Performance of Zn <sub>1-x</sub> CoxO Nanowall Vertically Growing on Si Wafer. <i>Chemistry Letters</i> , <b>2010</b> , 39, 994-995	1.7	10
24	Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2107359	15.6	10
23	Low-Temperature Processed Carbon Electrode-Based Inorganic Perovskite Solar Cells with Enhanced Photovoltaic Performance and Stability. <i>Energy and Environmental Materials</i> , <b>2021</b> , 4, 95-102	13	10
22	Confined growth of silver-copper Janus nanostructures with {100} facets for highly selective tandem electrocatalytic carbon dioxide reduction.. <i>Advanced Materials</i> , <b>2022</b> , e2110607	24	10
21	p-Type NiO modified BiVO <sub>4</sub> photoanodes with enhanced charge separation and solar water oxidation kinetics. <i>Materials Letters</i> , <b>2019</b> , 249, 128-131	3.3	8
20	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8810-8819	9.6	8
19	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7303-7309	3.6	8
18	Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO <sub>2</sub> inorganic interlayer. <i>Matter</i> , <b>2021</b> ,	12.7	8
17	Efficient wafer-scale poling of electro-optic polymer thin films on soda-lime glass substrates: large second-order nonlinear coefficients and exceptional homogeneity of optical birefringence. <i>Optical Materials Express</i> , <b>2017</b> , 7, 1909	2.6	7
16	Coordination and interface engineering to boost catalytic property of two-dimensional ZIFs for wearable Zn-air batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> ,	12	7
15	Atomic layer deposited Al <sub>2</sub> O <sub>3</sub> layer confinement: an efficient strategy to synthesize durable MOF-derived catalysts toward the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 1432-1438	6.8	6
14	Impermeable inorganic walls sandwiching perovskite layer toward inverted and indoor photovoltaic devices. <i>Nano Energy</i> , <b>2021</b> , 88, 106286	17.1	6
13	A simple paper-based colorimetric analytical device for rapid detection of <i>Enterococcus faecalis</i> under the stress of chlorophenols. <i>Talanta</i> , <b>2021</b> , 225, 121966	6.2	5
12	Interface Engineering for All-Inorganic CsPbIBr <sub>2</sub> Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%. <i>Energy Technology</i> , 2100562	3.5	5



11	Efficient and stable Cs <sub>2</sub> AgBiBr <sub>6</sub> double perovskite solar cells through in-situ surface modulation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137144	14.7	5
10	Gold-based nanoalloys: synthetic methods and catalytic applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 19025-19053	13	3
9	Synthesis of star-shaped non-fullerene acceptors and their applications in organic solar cells. <i>Synthetic Metals</i> , <b>2018</b> , 245, 167-174	3.6	3
8	Surface engineered CoP/CoO heterojunction for high-performance bi-functional water splitting electro-catalysis. <i>Nanoscale</i> , <b>2021</b> ,	7.7	2
7	3D Porous Nb <sub>2</sub> C MXene/reduced graphene oxide aerogel coupled with NiFe alloy nanoparticles for wearable Zn  air batteries. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 7315-7322	7.8	2
6	In Situ Formation of Ag <sub>2</sub> MoO <sub>4</sub> in a Ag/MoO <sub>3</sub> Buffer Layer Enables Highly Efficient Inverted Perovskite Cell for a Tandem Structure. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9742-9749	6.1	1
5	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 20600-20605	3.6	1
4	Plasmonic Local Heating Induced Strain Modulation for Enhanced Efficiency and Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 200186	21.8	1
3	Interface and Nanostructural Engineering of Low-cost, Efficient and Stable Perovskite Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1771, 171-179		0
2	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16071-16079	3.6	0
1	Laser-Induced Graphene: Highly Efficient and Rapid Inactivation of Coronavirus on Non-Metal Hydrophobic Laser-Induced Graphene in Mild Conditions (Adv. Funct. Mater. 24/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170175	15.6	