

# Hong-xia Wang

## 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.

179  
papers

6,532  
citations

44  
h-index

73  
g-index

192  
ext. papers

7,902  
ext. citations

7.4  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
179	Perovskite solar cells based self-charging power packs: Fundamentals, applications and challenges. <i>Nano Energy</i> , <b>2022</b> , 94, 106910	17.1	8
178	Perovskite/Si Tandem Solar Cells <b>2022</b> , 481-530		
177	Surface Treatment of Inorganic CsPbI Nanocrystals with Guanidinium Iodide for Efficient Perovskite Light-Emitting Diodes with High Brightness.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 69	19.5	4
176	Are Metal Halide Perovskite Solar Cells Ready for Space Applications?. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2908-2920	6.4	3
175	Methylammonium thiocyanate seeds assisted heterogeneous nucleation for achieving high-performance perovskite solar cells. <i>Applied Surface Science</i> , <b>2022</b> , 153206	6.7	1
174	Hierarchical ternary composites using coaxial polyphosphazene-coated MoO <sub>3</sub> nanowires as substrate for advanced supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 905, 164241	5.7	1
173	Emergence of Ni-Based Chalcogenides (S and Se) for Clean Energy Conversion and Storage. <i>Small</i> , <b>2021</b> , 17, e2100361	11	6
172	Sulfophilic and lithophilic sites in bimetal nickel-zinc carbide with fast conversion of polysulfides for high-rate Li-S battery. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126566	14.7	16
171	Structural, electronic and optical properties of lead-free antimony-copper based hybrid double perovskites for photovoltaics and optoelectronics by first principles calculations. <i>Computational Materials Science</i> , <b>2021</b> , 186, 110009	3.2	12
170	Preparation of mulberry-like RuO <sub>2</sub> electrode material for supercapacitors. <i>Rare Metals</i> , <b>2021</b> , 40, 440-447	3.5	34
169	Spectroscopic Insight into Efficient and Stable Hole Transfer at the Perovskite/Spiro-OMeTAD Interface with Alternative Additives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5752-5761	9.5	10
168	Low-Dimensional-Networked Perovskites with A-Site-Cation Engineering for Optoelectronic Devices.. <i>Small Methods</i> , <b>2021</b> , 5, e2001147	12.8	11
167	Three-Dimensional (3D) Nanostructured Skeleton Substrate Composed of Hollow Carbon Fiber/Carbon Nanosheet/ZnO for Stable Lithium Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3078-3088	9.5	14
166	Self-assembled carbon dot-wrapped perovskites enable light trapping and defect passivation for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7508-7521	13	8
165	Towards the environmentally friendly solution processing of metal halide perovskite technology. <i>Green Chemistry</i> , <b>2021</b> , 23, 5302-5336	10	10
164	Band alignment tuning at Mo/CZTS back contact interface through surface oxidation states control of Mo substrate. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 229, 111141	6.4	1
163	Two-dimensional nanosheets constituted trimetal Ni-Co-Mn sulfide nanoflower-like structure for high-performance hybrid supercapacitors. <i>Applied Surface Science</i> , <b>2021</b> , 565, 150482	6.7	5

162	Electrochemically induced surface reconstruction of Ni-Co oxide nanosheet arrays for hybrid supercapacitors. <i>Exploration</i> , <b>2021</b> , 1, 20210178		9
161	Spiro-OMeTAD or CuSCN as a preferable hole transport material for carbon-based planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12723-12734	13	32
160	A facile, environmentally friendly synthesis of strong photo-emissive methylammonium lead bromide perovskite nanocrystals enabled by ionic liquids. <i>Green Chemistry</i> , <b>2020</b> , 22, 3433-3440	10	9
159	Bimetallic Ni/Co-ZIF-67 derived NiCo <sub>2</sub> Se <sub>4</sub> /N-doped porous carbon nanocubes with excellent sodium storage performance. <i>Electrochimica Acta</i> , <b>2020</b> , 353, 136532	6.7	20
158	Potassium Doping to Enhance Green Photoemission of Light-Emitting Diodes Based on CsPbBr <sub>3</sub> Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000742	8.1	14
157	Dimensionality-Controlled Surface Passivation for Enhancing Performance and Stability of Perovskite Solar Cells via Triethylenetetramine Vapor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 6651-6661	9.5	18
156	High performance carbon-based planar perovskite solar cells by hot-pressing approach. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 210, 110517	6.4	22
155	The effect of ethylene-amine ligands enhancing performance and stability of perovskite solar cells. <i>Journal of Power Sources</i> , <b>2020</b> , 463, 228210	8.9	12
154	1D Pyrrolidinium Lead Iodide for Efficient and Stable Perovskite Solar Cells. <i>Energy Technology</i> , <b>2020</b> , 8, 1900918	3.5	11
153	Alkaline-earth bis(trifluoromethanesulfonimide) additives for efficient and stable perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 69, 104412	17.1	33
152	A zinc bromine Supercapattery system combining triple functions of capacitive, pseudocapacitive and battery-type charge storage. <i>Materials Horizons</i> , <b>2020</b> , 7, 495-503	14.4	30
151	Enlarging Surface/Bulk Ratios of NiO Nanoparticles toward High Utilization and Rate Capability for Supercapacitors. <i>Particle and Particle Systems Characterization</i> , <b>2020</b> , 37, 1900344	3.1	6
150	Enhancing cycling stability of transition metal-based layered double hydroxides through a self-sacrificial strategy for hybrid supercapacitors. <i>Electrochimica Acta</i> , <b>2020</b> , 334, 135586	6.7	22
149	Carbon-encapsulated Bi <sub>2</sub> Te <sub>3</sub> derived from metal-organic framework as anode for highly durable lithium and sodium storage. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 837, 155536	5.7	13
148	Boosting Capacitive Sodium-Ion Storage in Electrochemically Exfoliated Graphite for Sodium-Ion Capacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 52635-52642	9.5	13
147	Biorefining of sugarcane bagasse to fermentable sugars and surface oxygen group-rich hierarchical porous carbon for supercapacitors. <i>Renewable Energy</i> , <b>2020</b> , 162, 2306-2317	8.1	9
146	Self-charging flexible solar capacitors based on integrated perovskite solar cells and quasi-solid-state supercapacitors fabricated at low temperature. <i>Journal of Power Sources</i> , <b>2020</b> , 479, 229046	8.9	6
145	Strategically Constructed Bilayer Tin (IV) Oxide as Electron Transport Layer Boosts Performance and Reduces Hysteresis in Perovskite Solar Cells. <i>Small</i> , <b>2020</b> , 16, e1901466	11	23

144	Plasma-induced on-surface sulfur vacancies in NiCo <sub>2</sub> S <sub>4</sub> enhance the energy storage performance of supercapatteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9278-9291	13	27
143	High-Performance Plasma-Enabled Biorefining of Microalgae to Value-Added Products. <i>ChemSusChem</i> , <b>2019</b> , 12, 4976-4985	8.3	18
142	Evaluation of Particle Beam Lithography for Fabrication of Metallic Nano-structures. <i>Procedia Manufacturing</i> , <b>2019</b> , 30, 261-267	1.5	7
141	Investigation of mechanical properties and morphology of hydrothermally manufactured titanium dioxide nanostructured surfaces. <i>Procedia Manufacturing</i> , <b>2019</b> , 30, 373-379	1.5	2
140	Electronic and optical properties of lead-free hybrid double perovskites for photovoltaic and optoelectronic applications. <i>Scientific Reports</i> , <b>2019</b> , 9, 718	4.9	55
139	One-Pot Synthesis of CuCo <sub>2</sub> S <sub>4</sub> Sub-Microspheres for High-Performance Lithium-/Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1558-1566	4.3	12
138	Multi-biofunctional properties of three species of cicada wings and biomimetic fabrication of nanopatterned titanium pillars. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 1300-1310	7.3	39
137	Low Hysteresis Perovskite Solar Cells Using an Electron-Beam Evaporated WO <sub>3</sub> Thin Film as the Electron Transport Layer. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5456-5464	6.1	32
136	2D-3D Mixed Organic-Inorganic Perovskite Layers for Solar Cells with Enhanced Efficiency and Stability Induced by -Propylammonium Iodide Additives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29753-29764	9.5	60
135	Lithium bis(trifluoromethanesulfonyl)imide assisted dual-functional separator coating materials based on covalent organic frameworks for high-performance lithium-selenium sulfide batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16323-16329	13	30
134	UV-ozone induced surface passivation to enhance the performance of Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 200, 109892	6.4	9
133	Kinetic and material properties of interfaces governing slow response and long timescale phenomena in perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2054-2079	35.4	112
132	Size-dependent capacitive behavior of homogeneous MnO nanoparticles on carbon cloth as electrodes for symmetric solid-state supercapacitors with high performance. <i>Electrochimica Acta</i> , <b>2019</b> , 307, 442-450	6.7	13
131	Flexible quasi-solid-state dual-ion asymmetric supercapacitor based on Ni(OH) <sub>2</sub> and Nb <sub>2</sub> O <sub>5</sub> nanosheet arrays. <i>Green Energy and Environment</i> , <b>2019</b> , 4, 382-390	5.7	19
130	Aqueous alkaline-acid hybrid electrolyte for zinc-bromine battery with 3V voltage window. <i>Energy Storage Materials</i> , <b>2019</b> , 19, 56-61	19.4	52
129	Fabrication of dual function disposable substrates for spectroelectrochemical nanosensing. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 287, 9-17	8.5	6
128	Metal oxide/graphene composite anode materials for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 434-454	19.4	109
127	Free-standing amorphous nanoporous nickel cobalt phosphide prepared by electrochemically delloying process as a high performance energy storage electrode material. <i>Energy Storage Materials</i> , <b>2019</b> , 17, 300-308	19.4	41

126	Fluorine substitution enabling pseudocapacitive intercalation of sodium ions in niobium oxyfluoride. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20813-20823	13	10
125	Efficiency enhancement of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film solar cells by chromium doping. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 201, 110057	6.4	8
124	Interface Engineering to Eliminate Hysteresis of Carbon-Based Planar Heterojunction Perovskite Solar Cells via CuSCN Incorporation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28431-28441	9.5	40
123	Ab initio atomistic insights into lead-free formamidinium based hybrid perovskites for photovoltaics and optoelectronics. <i>Computational Materials Science</i> , <b>2019</b> , 169, 109118	3.2	15
122	Bacteria Death and Osteoblast Metabolic Activity Correlated to Hydrothermally Synthesised TiO <sub>2</sub> Surface Properties. <i>Molecules</i> , <b>2019</b> , 24,	4.8	13
121	Synthesis of Co Ni <sub>1-2</sub> S <sub>2</sub> electrode material with a greatly enhanced electrochemical performance for supercapacitors by in-situ solid-state transformation. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 803, 950-957	5.7	15
120	Ultrathin Ni Co S nanoflakes as high energy density electrode materials for asymmetric supercapacitors. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 2207-2216	3	4
119	Dopant-free novel hole-transporting materials based on quinacridone dye for high-performance and humidity-stable mesoporous perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5315-5323	13	55
118	Cerium Based Metal-Organic Frameworks as an Efficient Separator Coating Catalyzing the Conversion of Polysulfides for High Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 1923-1931	16.7	138
117	Highly accessible hierarchical porous carbon from a bi-functional ionic liquid bulky gel: high-performance electrochemical double layer capacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25297-25304	13	10
116	Free-standing NiCo <sub>2</sub> S <sub>4</sub> @VS <sub>2</sub> nanoneedle array composite electrode for high performance asymmetric supercapacitor application. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 771, 274-280	5.7	27
115	Boosting the cycling stability of transition metal compounds-based supercapacitors. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 545-573	19.4	288
114	Tailoring Crystal Structure of FA <sub>0.83</sub> Cs <sub>0.17</sub> PbI <sub>3</sub> Perovskite Through Guanidinium Doping for Enhanced Performance and Tunable Hysteresis of Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806479	15.6	64
113	Driving forces of national and regional carbon intensity changes in China: Temporal and spatial multiplicative structural decomposition analysis. <i>Journal of Cleaner Production</i> , <b>2019</b> , 213, 1380-1410	10.3	41
112	Facile synthesis of M <sub>2</sub> SnO <sub>3</sub> (M=Mn, Co, Zn)/reduced graphene oxide nanocomposites as anode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 784, 88-95	5.7	20
111	Flower-like Cu <sub>5</sub> Sn <sub>2</sub> S <sub>7</sub> /ZnS nanocomposite for high performance supercapacitor. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 1115-1120	8.1	15
110	In-situ growth of nanowire WO <sub>2</sub> .72 on carbon cloth as a binder-free electrode for flexible asymmetric supercapacitors with high performance. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 29, 58-64	12	8
109	Ultrathin NiCo <sub>2</sub> S <sub>4</sub> @graphene with a core-shell structure as a high performance positive electrode for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5856-5861	13	128

108	A Precursor Stacking Strategy to Boost Open-Circuit Voltage of Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin-Film Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 856-863	3.7	12
107	Hindered Formation of Photoinactive $\delta$ -FAPbI Phase and Hysteresis-Free Mixed-Cation Planar Heterojunction Perovskite Solar Cells with Enhanced Efficiency via Potassium Incorporation. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2113-2120	6.4	61
106	Mechanical, bactericidal and osteogenic behaviours of hydrothermally synthesised TiO nanowire arrays. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 80, 311-319	4.1	44
105	Octadecylamine-Functionalized Single-Walled Carbon Nanotubes for Facilitating the Formation of a Monolithic Perovskite Layer and Stable Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705545	15.6	53
104	Facile synthesis of Sb/CNT nanocomposite as anode material for sodium-ion batteries. <i>Functional Materials Letters</i> , <b>2018</b> , 11, 1850004	1.2	6
103	How real time pricing modifies Chinese households' electricity consumption. <i>Journal of Cleaner Production</i> , <b>2018</b> , 178, 776-790	10.3	24
102	Insight into lead-free organic-inorganic hybrid perovskites for photovoltaics and optoelectronics: A first-principles study. <i>Organic Electronics</i> , <b>2018</b> , 59, 99-106	3.5	51
101	Pseudocapacitance contribution in boron-doped graphite sheets for anion storage enables high-performance sodium-ion capacitors. <i>Materials Horizons</i> , <b>2018</b> , 5, 529-535	14.4	96
100	In-Situ Grown Ni(OH) <sub>2</sub> Nanosheets on Ni Foam for Hybrid Supercapacitors with High Electrochemical Performance. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A882-A890	3.9	14
99	Acene-based organic semiconductors for organic light-emitting diodes and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9017-9029	7.1	41
98	Low-cost, large-scale, one-pot synthesis of C/Ni <sub>3</sub> (NO <sub>3</sub> ) <sub>2</sub> (OH) <sub>4</sub> composites for high performance supercapacitor. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 217, 291-299	4.4	9
97	Protic ionic liquid assisted solution processing of lead halide perovskites with water, alcohols and acetonitrile. <i>Nano Energy</i> , <b>2018</b> , 51, 632-638	17.1	25
96	Tuning the Amount of Oxygen Vacancies in Sputter-Deposited SnO films for Enhancing the Performance of Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2018</b> , 11, 3096-3103	8.3	30
95	Inorganic p-type semiconductors and carbon materials based hole transport materials for perovskite solar cells. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 1242-1250	8.1	24
94	One-step synthesis of Pt-Pd catalyst nanoparticles supported on few-layer graphene for methanol oxidation. <i>Current Applied Physics</i> , <b>2018</b> , 18, 898-904	2.6	14
93	Sulfur-doped mesoporous carbon thermal reduction of CS by Mg for high-performance supercapacitor electrodes and Li-ion battery anodes. <i>RSC Advances</i> , <b>2018</b> , 8, 19964-19970	3.7	11
92	Improving the performance of arylamine-based hole transporting materials in perovskite solar cells: Extending $\pi$ -conjugation length or increasing the number of side groups?. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1409-1414	12	9
91	Binary NiCu layered double hydroxide nanosheets for enhanced energy storage performance as supercapacitor electrode. <i>Science China Materials</i> , <b>2018</b> , 61, 296-302	7.1	20

90	CuCo <sub>2</sub> S <sub>4</sub> /reduced graphene oxide nanocomposites synthesized by one-step solvothermal method as anode materials for sodium ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 895-902	6.7	49
89	One-pot synthesis of 2D Ti <sub>3</sub> C <sub>2</sub> /Ni <sub>2</sub> CO <sub>3</sub> (OH) <sub>2</sub> composite as electrode material with superior capacity and high stability for hybrid supercapacitor. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 168-179	6.7	23
88	Optimization of Mo/Cr bilayer back contacts for thin-film solar cells. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 2700-2707	3	6
87	Tuning the Amount of Oxygen Vacancies in Sputter-Deposited SnO <sub>x</sub> films for Enhancing the Performance of Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2018</b> , 11, 3022-3022	8.3	
86	Thermal effect on CZTS solar cells in different process of ZnO/ITO window layer fabrication. <i>Sustainable Materials and Technologies</i> , <b>2018</b> , 18, e00078	5.3	4
85	Controlling the adsorption behavior of hydrogen at the interface of polycrystalline CVD graphene. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 18735-18744	6.7	3
84	Layered tin sulfide and selenide anode materials for Li- and Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12185-12214	13	177
83	Facile synthesis of SbS/MoS heterostructure as anode material for sodium-ion batteries. <i>Nanotechnology</i> , <b>2018</b> , 29, 335401	3.4	34
82	MnO Quantum Dots Supported on Nitrogen-Doped Partially Exfoliated Multiwall Carbon Nanotubes as Oxygen Reduction Electrocatalysts for High-Performance Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23900-23909	9.5	43
81	Enhanced visible-light-driven photocatalytic performance of Ag/AgGaO <sub>2</sub> metal semiconductor heterostructures. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 701, 16-22	5.7	25
80	Strain Mediated Bandgap Reduction, Light Spectrum Broadening, and Carrier Mobility Enhancement of Methylammonium Lead/Tin Iodide Perovskites. <i>Particle and Particle Systems Characterization</i> , <b>2017</b> , 34, 1600288	3.1	12
79	Crack-free perovskite layers for high performance and reproducible devices via improved control of ambient conditions during fabrication. <i>Applied Surface Science</i> , <b>2017</b> , 407, 427-433	6.7	14
78	Electrochemical performances of Na <sub>2</sub> MnSiO <sub>4</sub> as an energy storage material in sodium-ion capacitors. <i>Journal of Applied Electrochemistry</i> , <b>2017</b> , 47, 343-349	2.6	7
77	Enhanced perovskite electronic properties via a modified lead(II) chloride Lewis acid-base adduct and their effect in high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5195-5203	12	103
76	2-Methylimidazole-Derived Ni-Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15510-15524	9.5	256
75	New insight into solvent engineering technology from evolution of intermediates via one-step spin-coating approach. <i>Science China Materials</i> , <b>2017</b> , 60, 392-398	7.1	46
74	Earth-abundant amorphous catalysts for electrolysis of water. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 991-1005	11.3	37
73	Novel fabrication of Ni <sub>3</sub> S <sub>2</sub> /MnS composite as high performance supercapacitor electrode. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 722, 662-668	5.7	36

72	Enhanced visible-light-driven photocatalytic activities of LiInO <sub>2</sub> by Mo <sup>6+</sup> -doping strategy. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2781-2789	3.8	4
71	Enhanced morphology and stability of high-performance perovskite solar cells with ultra-smooth surface and high fill factor via crystal growth engineering. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 907-914	5.8	27
70	Towards lead-free perovskite photovoltaics and optoelectronics by ab-initio simulations. <i>Scientific Reports</i> , <b>2017</b> , 7, 14025	4.9	133
69	Prospects of e-beam evaporated molybdenum oxide as a hole transport layer for perovskite solar cells. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 123105	2.5	16
68	All-solid-state flexible asymmetric supercapacitors with high energy and power densities based on NiCo <sub>2</sub> S <sub>4</sub> @MnS and active carbon. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 1260-1266	12	40
67	Guanidinium thiocyanate selective Ostwald ripening induced large grain for high performance perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 41, 476-487	17.1	124
66	Ternary NiCoFe Layered Double Hydroxide Nanosheets Synthesized by Cation Exchange Reaction for Oxygen Evolution Reaction. <i>Electrochimica Acta</i> , <b>2017</b> , 257, 118-127	6.7	73
65	How reliable are efficiency measurements of perovskite solar cells? The first inter-comparison, between two accredited and eight non-accredited laboratories. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22542-22558	13	55
64	High performance all-solid-state symmetric supercapacitor based on porous carbon made from a metal-organic framework compound. <i>Journal of Power Sources</i> , <b>2017</b> , 364, 9-15	8.9	58
63	Thienylvinylene-thienyl and Naphthalene Core Substituted with Triphenylamines Highly Efficient Hole Transporting Materials and Their Comparative Study for Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700105	7.1	49
62	Effect of different thermo-treatment at relatively low temperatures on the properties of indium-tin-oxide thin films. <i>Thin Solid Films</i> , <b>2017</b> , 636, 702-709	2.2	11
61	Molecular Engineering of Simple Benzene-Arylamine Hole-Transporting Materials for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27657-27663	9.5	39
60	A highly efficient electrocatalyst based on amorphous PdCuS material for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18793-18800	13	47
59	Metallic Nanomesh with Disordered Dual-Size Apertures As Wide-Viewing-Angle Transparent Conductive Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22768-73	9.5	15
58	Morphology evolution and stability of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals in sodium halides salt solution. <i>Thin Solid Films</i> , <b>2016</b> , 615, 305-310	2.2	4
57	Organic/Inorganic bismuth (III)-based material: A lead-free, air-stable and solution-processable light-absorber beyond organolead perovskites. <i>Nano Research</i> , <b>2016</b> , 9, 692-702	10	283
56	10% Efficiency Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> thin film solar cells fabricated by magnetron sputtering with enlarged depletion region width. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 149, 242-249	6.4	128
55	Progress in research on the stability of organometal perovskite solar cells. <i>Solar Energy</i> , <b>2016</b> , 123, 74-87	7.8	100

54	Investigation of the electrochemical growth of a Cu <sub>2</sub> ZnSn film on a molybdenum substrate using a citrate solution. <i>Journal of Applied Electrochemistry</i> , <b>2016</b> , 46, 769-778	2.6	7
53	High capacitive amorphous barium nickel phosphate nanofibers for electrochemical energy storage. <i>RSC Advances</i> , <b>2016</b> , 6, 45986-45992	3.7	20
52	Growth of Cu <sub>2</sub> ZnSnSe <sub>4</sub> Film under Controllable Se Vapor Composition and Impact of Low Cu Content on Solar Cell Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10283-92	9.5	50
51	Precisely Controlled Synthesis of High Quality Kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Film via Co-Electrodeposited CuZnSn Alloy Film. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 5701-6	1.3	1
50	Enhanced Electron Lifetime of CdSe/CdS Quantum Dot (QD) Sensitized Solar Cells Using ZnSe Core/Shell Structure with Efficient Regeneration of Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 150123143809004	3.8	40
49	Perovskite Solar Cells Based on Nanocrystalline SnO <sub>2</sub> Material with Extremely Small Particle Sizes. <i>Australian Journal of Chemistry</i> , <b>2015</b> , 68, 1783	1.2	9
48	Effects of metal ion concentration on electrodeposited CuZnSn film and its application in kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 65114-65122	3.7	17
47	Bias-dependent effects in planar perovskite solar cells based on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> films. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 453, 9-14	9.3	11
46	Carbon concentration dependent grain growth of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films. <i>RSC Advances</i> , <b>2015</b> , 5, 20178-20185	3.8	34
45	Graphene-covered perovskites: an effective strategy to enhance light absorption and resist moisture degradation. <i>RSC Advances</i> , <b>2015</b> , 5, 82346-82350	3.7	40
44	An efficient hole transport material composite based on poly(3-hexylthiophene) and bamboo-structured carbon nanotubes for high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2784-2793	13	116
43	On the growth process of Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> absorber layer formed by selenizing Cu <sub>2</sub> ZnSnS <sub>4</sub> precursors and its photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 132, 363-371	6.4	38
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39	Determination of Dimethyl Sulfide in Gas Samples by Single Photon Ionization Time of Flight Mass Spectrometry. <i>Analytical Letters</i> , <b>2014</b> , 47, 2003-2011	2.2	2
38	Size control of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) nanocrystals in the colloidal medium synthesis <b>2013</b> ,		1
37	Electrochemically exfoliated graphene for electrode films: effect of graphene flake thickness on the sheet resistance and capacitive properties. <i>Langmuir</i> , <b>2013</b> , 29, 13307-14	4	83

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34	Enhancing photoactivity of TiO <sub>2</sub> (B)/anatase core-shell nanofibers by selectively doping cerium ions into the TiO <sub>2</sub> (B) core. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 5113-9	4.8	50
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32	Enhanced photocatalytic activity of titanium oxide nanotubes after heating treatment. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 1141-4	1.3	4
31	Size-dependent photodegradation of CdS particles deposited onto TiO <sub>2</sub> mesoporous films by SILAR method. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	35
30	Thin Film Solar Cells Based on Cu <sub>2</sub> ZnSnS <sub>4</sub> Absorber <b>2012</b> , 1011-1018		3
29	N-Aryl stilbazolium dyes as sensitizers for solar cells. <i>Dyes and Pigments</i> , <b>2012</b> , 92, 766-777	4.6	14
28	Influence of Electrolyte Cations on Electron Transport and Electron Transfer in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10468-10475	3.8	76
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16	Novel ruthenium bipyridyl dyes with S-donor ligands and their application in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2009</b> , 202, 196-204	4.7	46
15	Characterization of Electron Trapping in Dye-Sensitized Solar Cells by Near-IR Transmittance Measurements. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8532-8536	3.8	40
14	A Comparison of Different Methods To Determine the Electron Diffusion Length in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18125-18133	3.8	89
13	Effect of Inorganic Iodides on Performance of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 15125-15131	3.8	44
12	Ion transport in small-molecule electrolytes based on LiI/3-hydroxypropionitrile with high salt contents. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 2039-2044	6.7	19
11	Influence of addition of larger particles into 3-nm particles of TiO <sub>2</sub> film on the performance of dye-sensitized solar cells <b>2007</b> ,		1
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4	An alternative ionic liquid based electrolyte for dye-sensitized solar cells. <i>Photochemical and Photobiological Sciences</i> , <b>2004</b> , 3, 918-9	4.2	30
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2	Non-thermal plasma enhances performances of biochar in wastewater treatment and energy storage applications. <i>Frontiers of Chemical Science and Engineering</i> , 1	4.5	1
1	Inorganic Aqueous Anionic Redox Liquid Electrolyte for Supercapacitors. <i>Advanced Materials Technologies</i> , 2100501	6.8	3

