

# Hong-xia Wang

## List of Publications by Citations

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7,902  
ext. citations

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L-index

#	Paper	IF	Citations
179	Boosting the cycling stability of transition metal compounds-based supercapacitors. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 545-573	19.4	288
178	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
177	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
176	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
175	Solid-state composite electrolyte LiI/3-hydroxypropionitrile/SiO <sub>2</sub> for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 6394-401	16.4	166
174	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
173	Towards lead-free perovskite photovoltaics and optoelectronics by ab-initio simulations. <i>Scientific Reports</i> , <b>2017</b> , 7, 14025	4.9	133
172	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
171	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
170	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
169	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
168	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
167	Metal oxide/graphene composite anode materials for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 434-454	19.4	109
166	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	13	103
165	Transport and Interfacial Transfer of Electrons in Dye-Sensitized Solar Cells Utilizing a Co(dbbip) <sub>2</sub> Redox Shuttle. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14300-14306	3.8	103
164	Electron Diffusion and Back Reaction in Dye-Sensitized Solar Cells: The Effect of Nonlinear Recombination Kinetics. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 748-751	6.4	102
163	Progress in research on the stability of organometal perovskite solar cells. <i>Solar Energy</i> , <b>2016</b> , 123, 74-87	7.8	100

162	Progress in Thin Film Solar Cells Based on Cu <sub>2</sub> ZnSnS <sub>4</sub> . <i>International Journal of Photoenergy</i> , <b>2011</b> , 2011, 1-10	2.1	98
161	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
160	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
159	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
158	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
157	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
156	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
155	Hindered Formation of Photoinactive $\delta$ -FAPbI <sub>3</sub> 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
154	2D-3D Mixed Organic-Inorganic Perovskite Layers for Solar Cells with Enhanced Efficiency and Stability Induced by $\gamma$ -Propylammonium Iodide Additives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29753-29764	9.5	60
153	Effect of iodine addition on solid-state electrolyte LiI/3-hydroxypropionitrile (1:4) for dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 5970-4	3.4	59
152	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
151	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
150	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
149	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	13.3	55
148	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
147	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
146	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
145	ZnO Nanocones with High-Index {101 1} Facets for Enhanced Energy Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 13836-13844	3.8	50

144	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
143	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
142	Thienylvinyleneethienyl 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
141	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
140	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
139	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
138	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
137	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
136	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
135	Ultrafast near infrared sintering of TiO <sub>2</sub> layers on metal substrates for dye-sensitized solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2011</b> , 19, 482-486	6.8	43
134	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
133	Phase-selective hydrothermal synthesis of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals: the effect of the sulphur precursor. <i>CrystEngComm</i> , <b>2014</b> , 16, 4306-4313	3.3	42
132	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
131	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
130	Kinetics of electron recombination of dye-sensitized solar cells based on TiO <sub>2</sub> nanorod arrays sensitized with different dyes. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 17359-66	3.6	41
129	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
128	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
127	Enhanced Electron Lifetime of CdSe/CdS Quantum Dot (QD) Sensitized Solar Cells Using ZnSe CoreShell Structure with Efficient Regeneration of Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 150123143809004	3.8	40

126	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
125	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
124	Fast Hole Surface Conduction Observed for Indoline Sensitizer Dyes Immobilized at Fluorine-Doped Tin Oxide/TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11822-11828	3.8	40
123	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
122	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
121	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
120	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
119	Earth-abundant amorphous catalysts for electrolysis of water. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 991-1005	11.3	37
118	One-step synthesis of high quality kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals - a hydrothermal approach. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 438-46	3	37
117	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
116	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
115	Reduced electron recombination of dye-sensitized solar cells based on TiO <sub>2</sub> spheres consisting of ultrathin nanosheets with [001] facet exposed. <i>Beilstein Journal of Nanotechnology</i> , <b>2012</b> , 3, 378-87	3	35
114	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	9.1	34
113	Preparation of mulberry-like RuO <sub>2</sub> electrode material for supercapacitors. <i>Rare Metals</i> , <b>2021</b> , 40, 440-447	7.5	34
112	Facile synthesis of SbS/MoS heterostructure as anode material for sodium-ion batteries. <i>Nanotechnology</i> , <b>2018</b> , 29, 335401	3.4	34
111	Alkaline-earth bis(trifluoromethanesulfonimide) additives for efficient and stable perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 69, 104412	17.1	33
110	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
109	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

108	Increased charge transfer of Poly (ethylene oxide) based electrolyte by addition of small molecule and its application in dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2013</b> , 87, 526-531	6.7	32
107	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
106	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
105	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
104	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
103	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
102	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
101	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
100	Characterization of Interactions among 3-Hydroxypropionitrile/LiI Electrolytes. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A302		26
99	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
98	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
97	How real time pricing modifies Chinese households electricity consumption. <i>Journal of Cleaner Production</i> , <b>2018</b> , 178, 776-790	10.3	24
96	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
95	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
94	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
93	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
92	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
91	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

90	High capacitive amorphous barium nickel phosphate nanofibers for electrochemical energy storage. <i>RSC Advances</i> , <b>2016</b> , 6, 45986-45992	3.7	20
89	Facile synthesis of MSnO <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
88	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
87	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
86	One-step synthesis of titanium oxide with trilayer structure for dye-sensitized solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 133113	3.4	19
85	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
84	High-Performance Plasma-Enabled Biorefining of Microalgae to Value-Added Products. <i>ChemSusChem</i> , <b>2019</b> , 12, 4976-4985	8.3	18
83	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
82	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
81	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
80	Polymer-in-salt like conduction behavior of small-molecule electrolytes. <i>Chemical Communications</i> , <b>2004</b> , 2186-7	5.8	16
79	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
78	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
77	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
76	Synthesis of Co Ni <sub>1-5</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
75	An ultraviolet selective photodetector based on a nanocrystalline TiO <sub>2</sub> photoelectrochemical cell. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 171, 87-92	3.9	15
74	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
73	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

72	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
71	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
70	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
69	N-Aryl stilbazolium dyes as sensitizers for solar cells. <i>Dyes and Pigments</i> , <b>2012</b> , 92, 766-777	4.6	14
68	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
67	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
66	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
65	Dinuclear Ru(II) Complexes: Electronic Characterisation and Application to Dye-Sensitised Solar Cells. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 589-596	2.3	13
64	Highly efficient dye-sensitized solar cells using a composite electrolyte. <i>Comptes Rendus Chimie</i> , <b>2006</b> , 9, 627-630	2.7	13
63	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
62	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
61	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
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50	Low-Dimensional-Networked Perovskites with A-Site-Cation Engineering for Optoelectronic Devices.. <i>Small Methods</i> , <b>2021</b> , 5, e2001147	12.8	11
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47	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
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42	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
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40	Improving the performance of arylamine-based hole transporting materials in perovskite solar cells: Extending conjugation length or increasing the number of side groups?. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1409-1414	12	9
39	Electrochemically induced surface reconstruction of Ni-Co oxide nanosheet arrays for hybrid supercapacitors. <i>Exploration</i> , <b>2021</b> , 1, 20210178		9
38	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
37	Perovskite solar cells based self-charging power packs: Fundamentals, applications and challenges. <i>Nano Energy</i> , <b>2022</b> , 94, 106910	17.1	8

36	In-situ growth of nanowire WO <sub>2.72</sub> 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
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34	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
33	Evaluation of Particle Beam Lithography for Fabrication of Metallic Nano-structures. <i>Procedia Manufacturing</i> , <b>2019</b> , 30, 261-267	1.5	7
32	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
31	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
30	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
29	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
28	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
27	Emergence of Ni-Based Chalcogenides (S and Se) for Clean Energy Conversion and Storage. <i>Small</i> , <b>2021</b> , 17, e2100361	11	6
26	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
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20	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
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14	Inorganic Aqueous Anionic Redox Liquid Electrolyte for Supercapacitors. <i>Advanced Materials Technologies</i> , 2100501	6.8	3
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12	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
11	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
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8	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
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