

# Hui-Ying Yang

## List of Publications by Citations

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303  
papers

14,251  
citations

66  
h-index

105  
g-index

324  
ext. papers

17,062  
ext. citations

9.3  
avg, IF

7.12  
L-index

#	Paper	IF	Citations
303	van der Waals epitaxy of MoS <sub>2</sub> layers using graphene as growth templates. <i>Nano Letters</i> , <b>2012</b> , 12, 2784-91	11.5	788
302	Selective decoration of Au nanoparticles on monolayer MoS <sub>2</sub> single crystals. <i>Scientific Reports</i> , <b>2013</b> , 3, 1839	4.9	342
301	Stable superhydrophobic surface via carbon nanotubes coated with a ZnO thin film. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 7746-8	3.4	299
300	3D nitrogen-doped graphene foam with encapsulated germanium/nitrogen-doped graphene yolk-shell nanoarchitecture for high-performance flexible Li-ion battery. <i>Nature Communications</i> , <b>2017</b> , 8, 13949	17.4	277
299	Borophene as an extremely high capacity electrode material for Li-ion and Na-ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 15340-7	7.7	272
298	Self-assembly of hierarchical MoS <sub>x</sub> /CNT nanocomposites (2). <i>Scientific Reports</i> , <b>2013</b> , 3, 2169	4.9	267
297	Carbon nanotube membranes with ultrahigh specific adsorption capacity for water desalination and purification. <i>Nature Communications</i> , <b>2013</b> , 4, 2220	17.4	259
296	Three-Dimensional NiCo <sub>2</sub> O <sub>4</sub> @Polypyrrole Coaxial Nanowire Arrays on Carbon Textiles for High-Performance Flexible Asymmetric Solid-State Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21334-46	9.5	250
295	Hybridized Nanowires and Cubes: A Novel Architecture of a Heterojunctioned TiO <sub>2</sub> /SrTiO <sub>3</sub> Thin Film for Efficient Water Splitting. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 4287-4294	15.6	246
294	Hierarchical assembly of ZnO nanostructures on SnO(2) backbone nanowires: low-temperature hydrothermal preparation and optical properties. <i>ACS Nano</i> , <b>2009</b> , 3, 3069-76	16.7	242
293	Ice Templated Free-Standing Hierarchically WS <sub>2</sub> /CNT-rGO Aerogel for High-Performance Rechargeable Lithium and Sodium Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601057	21.8	223
292	Functionalized MoS(2) nanosheet-based field-effect biosensor for label-free sensitive detection of cancer marker proteins in solution. <i>Small</i> , <b>2014</b> , 10, 1101-5	11	211
291	Regulating the polysulfide redox conversion by iron phosphide nanocrystals for high-rate and ultrastable lithium-sulfur battery. <i>Nano Energy</i> , <b>2018</b> , 51, 340-348	17.1	202
290	Dual-ions electrochemical deionization: a desalination generator. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2081-2089	35.4	176
289	CoO nanoflowers woven by CNT network for high energy density flexible micro-supercapacitor. <i>Nano Energy</i> , <b>2014</b> , 3, 46-54	17.1	162
288	Single polymer-based ternary electronic memory material and device. <i>Advanced Materials</i> , <b>2012</b> , 24, 2901-5	11.5	161
287	Three-dimensional Co <sub>3</sub> O <sub>4</sub> @C@Ni <sub>3</sub> S <sub>2</sub> sandwich-structured nanoneedle arrays: towards high-performance flexible all-solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16150-16161	13	155

286	Theoretical prediction of MoN <sub>2</sub> monolayer as a high capacity electrode material for metal ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15224-15231	13	154
285	Hierarchical porous carbon nanosheets and their favorable high-rate performance in lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12369		145
284	Direct Growth of Flower-Like MnO <sub>2</sub> on Three-Dimensional Graphene for High-Performance Rechargeable Li-O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301960	21.8	139
283	Recent Advances in Growth of Novel 2D Materials: Beyond Graphene and Transition Metal Dichalcogenides. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800865	24	135
282	Observation of lasing emission from carbon nanodots in organic solvents. <i>Advanced Materials</i> , <b>2012</b> , 24, 2263-7	24	132
281	Nitrogen-doped reduced graphene oxide for high-performance flexible all-solid-state micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18125-18131	13	128
280	3D hierarchical Co <sub>3</sub> O <sub>4</sub> @Co <sub>3</sub> S <sub>4</sub> nanoarrays as cathode materials for asymmetric pseudocapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3287-3296	13	122
279	A Prussian blue anode for high performance electrochemical deionization promoted by the faradaic mechanism. <i>Nanoscale</i> , <b>2017</b> , 9, 13305-13312	7.7	114
278	Sustainable Routes for the Synthesis of Renewable Heteroatom-Containing Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5694-5707	8.3	104
277	Preparation, characterization, and photoswitching/light-emitting behaviors of coronene nanowires. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1423-1427		104
276	Coexistence of four-band nodal rings and triply degenerate nodal points in centrosymmetric metal diborides. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	101
275	Designed hybrid nanostructure with catalytic effect: beyond the theoretical capacity of SnO <sub>2</sub> anode material for lithium ion batteries. <i>Scientific Reports</i> , <b>2015</b> , 5, 9164	4.9	100
274	Direct growth of ZnO nanocrystals onto the surface of porous TiO <sub>2</sub> nanotube arrays for highly efficient and recyclable photocatalysts. <i>Small</i> , <b>2009</b> , 5, 2260-4	11	98
273	A dual-ion electrochemistry deionization system based on AgCl-NaMnO electrodes. <i>Nanoscale</i> , <b>2017</b> , 9, 10101-10108	7.7	96
272	MoS <sub>2</sub> -coated vertical graphene nanosheet for high-performance rechargeable lithium-ion batteries and hydrogen production. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e268-e268	10.3	96
271	Ultrahigh Performance of Novel Capacitive Deionization Electrodes based on A Three-Dimensional Graphene Architecture with Nanopores. <i>Scientific Reports</i> , <b>2016</b> , 6, 18966	4.9	93
270	Seed-assisted growth of Fe <sub>2</sub> O <sub>3</sub> nanorod arrays on reduced graphene oxide: a superior anode for high-performance Li-ion and Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11800-11811	13	90
269	A novel single-layered MoS <sub>2</sub> nanosheet based microfluidic biosensor for ultrasensitive detection of DNA. <i>Nanoscale</i> , <b>2015</b> , 7, 2245-9	7.7	88

268	Shape-Controlled Micro/Nanostructures of 9,10-Diphenylanthracene (DPA) and Their Application in Light-Emitting Devices. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 7924-7927	3.8	87
267	Synthesis, characterization, self-assembly, and physical properties of 11-methylbenzo[d]pyreno[4,5-b]furan. <i>Organic Letters</i> , <b>2011</b> , 13, 3004-7	6.2	87
266	Magnetic anisotropy in the ferromagnetic Cu-doped ZnO nanoneedles. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 032509	3.4	87
265	Three-dimensional hierarchical NiCo <sub>2</sub> O <sub>4</sub> nanowire@Ni <sub>3</sub> S <sub>2</sub> nanosheet core/shell arrays for flexible asymmetric supercapacitors. <i>Nanoscale</i> , <b>2016</b> , 8, 10686-94	7.7	87
264	Monitoring morphological changes in 2D monolayer semiconductors using atom-thick plasmonic nanocavities. <i>ACS Nano</i> , <b>2015</b> , 9, 825-30	16.7	86
263	Core-leaf onion-like carbon/MnO <sub>2</sub> hybrid nano-urchins for rechargeable lithium-ion batteries. <i>Carbon</i> , <b>2013</b> , 64, 230-236	10.4	84
262	3D carbon foam-supported WS <sub>2</sub> nanosheets for cable-shaped flexible sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10813-10824	13	82
261	MnO <sub>2</sub> /onion-like carbon nanocomposites for pseudocapacitors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17584		82
260	Pre-lithiation of onion-like carbon/MoS <sub>2</sub> nano-urchin anodes for high-performance rechargeable lithium ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 8884-90	7.7	81
259	Printed all-solid flexible microsupercapacitors: towards the general route for high energy storage devices. <i>Nanotechnology</i> , <b>2014</b> , 25, 094010	3.4	81
258	Bifunctional porous iron phosphide/carbon nanostructure enabled high-performance sodium-ion battery and hydrogen evolution reaction. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 98-107	19.4	80
257	Universal Scaling Laws in Schottky Heterostructures Based on Two-Dimensional Materials. <i>Physical Review Letters</i> , <b>2018</b> , 121, 056802	7.4	80
256	Directional and controllable edge-emitting ZnO ultraviolet random laser diodes. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 101116	3.4	80
255	PANPEO solid polymer electrolytes with high ionic conductivity. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 89, 390-394	4.4	80
254	Recent Advances in Heterostructure Engineering for Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003689	21.8	79
253	3D hierarchical defect-rich NiMo <sub>3</sub> S <sub>4</sub> nanosheet arrays grown on carbon textiles for high-performance sodium-ion batteries and hydrogen evolution reaction. <i>Nano Energy</i> , <b>2018</b> , 49, 460-470	17.1	78
252	Cubic-shaped WS <sub>2</sub> nanopetals on a Prussian blue derived nitrogen-doped carbon nanoporous framework for high performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10406-10415	13	77
251	A Study of MnO with Different Crystalline Forms for Pseudocapacitive Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13176-13184	9.5	77

250	Enhancement of ultraviolet lasing from Ag-coated highly disordered ZnO films by surface-plasmon resonance. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 231106	3.4	77
249	Enabling Superior Sodium Capture for Efficient Water Desalination by a Tubular Polyaniline Decorated with Prussian Blue Nanocrystals. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907404	24	76
248	Ultrahigh performance of a novel electrochemical deionization system based on a NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /rGO nanocomposite. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18157-18165	13	76
247	Phase Transformation Induced Capacitance Activation for 3D Graphene-CoO Nanorod Pseudocapacitor. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301788	21.8	75
246	Fe <sub>3</sub> O <sub>4</sub> quantum dot decorated MoS <sub>2</sub> nanosheet arrays on graphite paper as free-standing sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9122-9131	13	74
245	3D graphene supported MoO <sub>2</sub> for high performance binder-free lithium ion battery. <i>Nanoscale</i> , <b>2014</b> , 6, 9839-45	7.7	74
244	Bimetallic metal-organic framework derived porous carbon nanostructures for high performance membrane capacitive desalination. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6113-6121	13	71
243	Green Fabrication of Silkworm Cocoon-like Silicon-Based Composite for High-Performance Li-Ion Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 8628-8635	16.7	71
242	Two dimensional layered Co <sub>0.85</sub> Se nanosheets as a high-capacity anode for lithium-ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 14992-5000	7.7	70
241	Onion-like carbon matrix supported Co <sub>3</sub> O <sub>4</sub> nanocomposites: a highly reversible anode material for lithium ion batteries with excellent cycling stability. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5212	13	68
240	Laser action in ZnO nanoneedles selectively grown on silicon and plastic substrates. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 013104	3.4	68
239	A high charge efficiency electrode by self-assembling sulphonated reduced graphene oxide onto carbon fibre: towards enhanced capacitive deionization. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3484	13	65
238	Exciton radiative lifetime in ZnO nanorods fabricated by vapor phase transport method. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 013107	3.4	65
237	Efficient Sodium-Ion Intercalation into the Freestanding Prussian Blue/Graphene Aerogel Anode in a Hybrid Capacitive Deionization System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5989-5998	9.5	64
236	ZnO random laser diode arrays for stable single-mode operation at high power. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 241107	3.4	64
235	Ar plasma modification of 2D MXene Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanosheets for efficient capacitive desalination. <i>FlatChem</i> , <b>2018</b> , 8, 17-24	5.1	63
234	Low energy consumption dual-ion electrochemical deionization system using NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> -AgNPs electrodes. <i>Desalination</i> , <b>2019</b> , 451, 241-247	10.3	63
233	Preparation of MoS <sub>2</sub> -MoO <sub>3</sub> hybrid nanomaterials for light-emitting diodes. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12560-5	16.4	62

232	Mechanism Investigation of High-Performance Li-Polysulfide Batteries Enabled by Tungsten Disulfide Nanopetals. <i>ACS Nano</i> , <b>2018</b> , 12, 9504-9512	16.7	61
231	Fabrication of magnetic cryptomelane-type manganese oxide nanowires for water treatment. <i>Chemical Communications</i> , <b>2011</b> , 47, 1890-2	5.8	60
230	Bifunctional NiCo <sub>2</sub> S <sub>4</sub> catalysts supported on a carbon textile interlayer for ultra-stable LiS battery. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7604-7613	13	60
229	An aqueous rechargeable chloride ion battery. <i>Energy Storage Materials</i> , <b>2017</b> , 7, 189-194	19.4	57
228	Efficient Sodium Storage in Rolled-Up Amorphous Si Nanomembranes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706637	24	57
227	Surface modification of Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> nanofibre arrays using N-doped graphene quantum dots as advanced anodes for sodium-ion batteries with ultra-stable and high-rate capability. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12751-12762	13	56
226	3D self-branched zinc-cobalt Oxide@N-doped carbon hollow nanowall arrays for high-performance asymmetric supercapacitors and oxygen electrocatalysis. <i>Energy Storage Materials</i> , <b>2019</b> , 23, 653-663	19.4	56
225	X-ray generation using carbon-nanofiber-based flexible field emitters. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 103105	3.4	56
224	Hybrid nodal loop metal: Unconventional magnetoresponse and material realization. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	54
223	Ultrahigh-Desalination-Capacity Dual-Ion Electrochemical Deionization Device Based on NaV(PO) <sub>4</sub> @C-AgCl Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 40540-40548	9.5	53
222	Synthesis of self-assembled cobalt sulphide coated carbon nanotube and its superior electrochemical performance as anodes for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 167, 388-395	6.7	52
221	Miniature Pneumatic Actuators for Soft Robots by High-Resolution Multimaterial 3D Printing. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900427	6.8	52
220	Excellent BODIPY Dye Containing Dimesitylboryl Groups as PeT-Based Fluorescent Probes for Fluoride. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19947-19954	3.8	52
219	Integrated NiCo <sub>2</sub> -LDHs@MXene/rGO aerogel: Componential and structural engineering towards enhanced performance stability of hybrid supercapacitor. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125197	14.7	50
218	Construction of complex NiS multi-shelled hollow structures with enhanced sodium storage. <i>Energy Storage Materials</i> , <b>2019</b> , 23, 17-24	19.4	49
217	Dual wavelength electroluminescence from CdSe/CdS tetrapods. <i>ACS Nano</i> , <b>2014</b> , 8, 2873-9	16.7	49
216	Design and synthesis of NiO nanoflakes/graphene nanocomposite as high performance electrodes of pseudocapacitor. <i>RSC Advances</i> , <b>2013</b> , 3, 19409	3.7	49
215	Defect and Doping-Co-Engineered Non-Metal Nanocarbon ORR Electrocatalyst. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 65	19.5	49

214	Dual-Ion Electrochemical Deionization System with Binder-Free Aerogel Electrodes. <i>Small</i> , <b>2019</b> , 15, e1805505	11	48
213	Field emission from zinc oxide nanoneedles on plastic substrates. <i>Nanotechnology</i> , <b>2005</b> , 16, 1300-1303	3.4	48
212	Boosting Sodium Storage of FeS/MoS Composite via Heterointerface Engineering. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 80	19.5	47
211	SnSe <sub>2</sub> Quantum Dot/rGO composite as high performing lithium anode. <i>Energy Storage Materials</i> , <b>2018</b> , 10, 92-101	19.4	47
210	Hybrid CuO/SnO <sub>2</sub> nanocomposites: Towards cost-effective and high performance binder free lithium ion batteries anode materials. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 143905	3.4	47
209	Reproducible X-ray Imaging with a Perovskite Nanocrystal Scintillator Embedded in a Transparent Amorphous Network Structure. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102529	24	47
208	Unconventional Mn Vacancies in MnFe Prussian Blue Analogs: Suppressing Jahn-Teller Distortion for Ultrastable Sodium Storage. <i>CheM</i> , <b>2020</b> , 6, 1804-1818	16.2	46
207	Promoting Highly Reversible Sodium Storage of Iron Sulfide Hollow Polyhedrons via Cobalt Incorporation and Graphene Wrapping. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901584	21.8	46
206	Ultraviolet coherent random lasing in randomly assembled SnO <sub>2</sub> nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 241121	3.4	43
205	Reliable and flexible carbon-nanofiber-based all-plastic field emission devices. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 143103	3.4	43
204	Promoting polysulfide conversion by catalytic ternary Fe <sub>3</sub> O <sub>4</sub> /carbon/graphene composites with ordered microchannels for ultrahigh-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25078-25087	13	43
203	Three-dimensional graphene oxide and polyvinyl alcohol composites as structured activated carbons for capacitive desalination. <i>Desalination</i> , <b>2019</b> , 451, 172-181	10.3	43
202	A high performance electrochemical deionization method to desalinate brackish water with an FePO <sub>4</sub> /RGO nanocomposite. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8901-8908	13	42
201	Hydrothermally synthesized graphene and Fe <sub>3</sub> O <sub>4</sub> nanocomposites for high performance capacitive deionization. <i>RSC Advances</i> , <b>2016</b> , 6, 11967-11972	3.7	42
200	Low-loss and directional output ZnO thin-film ridge waveguide random lasers with MgO capped layer. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 031112	3.4	41
199	Flexible ultraviolet random lasers based on nanoparticles. <i>Small</i> , <b>2005</b> , 1, 956-9	11	41
198	Au-Decorated Cracked Carbon Tube Arrays as Binder-Free Catalytic Cathode Enabling Guided Li <sub>2</sub> O <sub>2</sub> Inner Growth for High-Performance Li-O <sub>2</sub> Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7725-7732	15.6	40
197	Synthesis, physical properties, and self-assembly of a novel asymmetric aryleneimidazophenazine. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 665-9	4.5	40

196	Enhanced sodium storage kinetics by volume regulation and surface engineering via rationally designed hierarchical porous FeP@C/rGO. <i>Nanoscale</i> , <b>2020</b> , 12, 4341-4351	7.7	40
195	NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> -Ag electrodes based desalination battery and energy recovery. <i>FlatChem</i> , <b>2018</b> , 8, 9-16	5.1	39
194	Wide-bandwidth lasing from C-dot/epoxy nanocomposite Fabry-Pérot cavities with ultralow threshold. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1525	7.1	39
193	High-temperature random lasing in ZnO nanoneedles. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 011103	3.4	39
192	High-Temperature Lasing Characteristics of ZnO Epilayers. <i>Advanced Materials</i> , <b>2006</b> , 18, 771-774	24	37
191	Germagraphene as a promising anode material for lithium-ion batteries predicted from first-principles calculations. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 457-463	10.8	36
190	Tracking Optical Welding through Groove Modes in Plasmonic Nanocavities. <i>Nano Letters</i> , <b>2016</b> , 16, 5605-5613	11.3	36
189	Hydrogen-bonded supramolecular conjugated polymer nanoparticles for white light-emitting devices. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 895-900	4.8	36
188	Ultraviolet electroluminescence from randomly assembled n-SnO <sub>2</sub> /GaN:Mg heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1191-4	9.5	36
187	Strain dependence of lasing mechanisms in ZnO epilayers. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 261111	3.4	36
186	Ferromagnetic Cu-doped AlN nanorods. <i>Nanotechnology</i> , <b>2007</b> , 18, 105601	3.4	35
185	Ultraviolet photoluminescence from ferromagnetic Fe-doped AlN nanorods. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 193118	3.4	35
184	Design Multifunctional Catalytic Interface: Toward Regulation of Polysulfide and Li S Redox Conversion in Li-S Batteries. <i>Small</i> , <b>2019</b> , 15, e1906132	11	35
183	Nontopotactic Reaction in Highly Reversible Sodium Storage of Ultrathin Co Se /rGO Hybrid Nanosheets. <i>Small</i> , <b>2017</b> , 13, 1603980	11	34
182	Effects of Graphene Oxide Function Groups on SnO <sub>2</sub> /Graphene Nanocomposites for Lithium Storage Application. <i>Electrochimica Acta</i> , <b>2015</b> , 154, 338-344	6.7	33
181	MoS <sub>2</sub> coated hollow carbon spheres for anodes of lithium ion batteries. <i>2D Materials</i> , <b>2016</b> , 3, 024001	5.9	33
180	Tunable Pseudocapacitive Behavior in Metal-Organic Framework-Derived TiO <sub>2</sub> @Porous Carbon Enabling High-Performance Membrane Capacitive Deionization. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1812-1822	6.1	32
179	3D Printed Compressible Quasi-Solid-State Nickel-Iron Battery. <i>ACS Nano</i> , <b>2020</b> , 14, 9675-9686	16.7	32



178	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. <i>Nano Letters</i> , <b>2021</b> , 21, 823-832	11.5	32
177	Concurrent Synthesis of High-Performance Monolayer Transition Metal Disulfides. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605896	15.6	31
176	Au-nanocrystals-decorated MnO <sub>2</sub> as an efficient catalytic cathode for high-performance Li-O <sub>2</sub> batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 9589-96	7.7	31
175	Free standing SnS <sub>2</sub> nanosheets on 3D graphene foam: an outstanding hybrid nanostructure anode for Li-ion batteries. <i>2D Materials</i> , <b>2015</b> , 2, 024010	5.9	31
174	A review on free-standing electrodes for energy-effective desalination: Recent advances and perspectives in capacitive deionization. <i>Desalination</i> , <b>2020</b> , 493, 114662	10.3	31
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40	Polypyrrole coated niobium disulfide nanowires as high performance electrocatalysts for hydrogen evolution reaction. <i>Nanotechnology</i> , <b>2019</b> , 30, 405601	3.4	4
39	An Index-Guided ZnO Random Laser Array. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 522-524	2.2	4
38	Broadband near ultraviolet random lasing in ZnO 3-D nanowalls. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 9326-32	1.3	4
37	One-Pot Confined Epitaxial Growth of 2D Heterostructure Arrays <b>2021</b> , 3, 217-223		4
36	Ladder Mechanisms of Ion Transport in Prussian Blue Analogues.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	4
35	Fabrication of Li <sub>1.4</sub> Al <sub>0.4</sub> Ti <sub>1.6</sub> (PO <sub>4</sub> ) <sub>3</sub> quasi-solid electrolyte with high conductivity and compatibility through AAO template. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 191902	3.4	4



34	Two-dimensional SnS <sub>2</sub> nanosheets on Prussian blue template for high performance sodium ion batteries. <i>Frontiers of Chemical Science and Engineering</i> , <b>2019</b> , 13, 493-500	4.5	3
33	Fast-neutron irradiation effects on monolayer MoS <sub>2</sub> . <i>Applied Physics Express</i> , <b>2019</b> , 12, 056001	2.4	3
32	Real-time, sensitive electrical detection of <i>Cryptosporidium parvum</i> oocysts based on chemical vapor deposition-grown graphene. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 063705	3.4	3
31	ZnO/ZnMgO Multiple Quantum-Well Ridge Waveguide Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1624-1626	2.2	3
30	Synthesis, optical properties and functional applications of ZnO nano-materials: A review <b>2008</b> ,		3
29	An Exfoliation/Evaporation Strategy To Regulate N Coordination Number of Co Single-Atom Catalysts for High-Performance Lithium/Sulfur Batteries 1-10		3
28	Ocean Mining: A Fluidic Electrochemical Route for Lithium Extraction from Seawater <b>2020</b> , 2, 1662-1668		3
27	Hydrogel-elastomer-based stretchable strain sensor fabricated by a simple projection lithography method. <i>International Journal of Smart and Nano Materials</i> , 1-13	3.6	3
26	Electrochemically activated layered manganese oxide for selective removal of calcium and magnesium ions in hybrid capacitive deionization. <i>Desalination</i> , <b>2021</b> , 520, 115374	10.3	3
25	Reconstructing Cu Nanoparticle Supported on Vertical Graphene Surfaces via Electrochemical Treatment to Tune the Selectivity of CO <sub>2</sub> Reduction toward Valuable Products. <i>ACS Catalysis</i> , 4792-4805 <sup>13.1</sup>		3
24	Ultraviolet Lasing Characteristics of ZnS Microbelt Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 1501705-1501705	3.8	2
23	Suppression of Random Lasing Modes in Polycrystalline ZnO Thin-Film by Using Distributed Bragg Reflector. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 549-551	2.2	2
22	Electric field modulated ion-sieving effects of graphene oxide membranes. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 244-253	13	2
21	Design of Black Phosphorous Derivatives with Excellent Stability and Ion-Kinetics for Alkali Metal-Ion Battery. <i>Energy Storage Materials</i> , <b>2021</b> , 35, 283-309	19.4	2
20	A membrane-less desalination battery with ultrahigh energy efficiency. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7216-7226	13	2
19	Improved thermal and structural stabilities of LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> cathode by La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> multifunctional modification. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 093902	3.4	2
18	A crystalline dihydroxyanthraquinone anodic material for proton batteries. <i>Materials Today Energy</i> , <b>2021</b> , 22, 100872	7	2
17	Prompting structure stability of O <sub>3</sub> /LaNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> via effective surface regulation based on atomic layer deposition. <i>Ceramics International</i> , <b>2021</b> , 47, 28521-28527	5.1	2

16	Multi-stage anisotropic etching of two-dimensional heterostructures. <i>Nano Research</i> ,1	10	2
15	Progress on 3D-Printed Metal-Organic Frameworks with Hierarchical Structures. <i>Advanced Materials Technologies</i> ,2200023	6.8	2
14	Boron detection and quantification based on the absorption spectra of pyridoxine and its boron complex. <i>Environmental Chemistry</i> , <b>2017</b> , 14, 135	3.2	1
13	Reversible Sodium Storage: Promoting Highly Reversible Sodium Storage of Iron Sulfide Hollow Polyhedrons via Cobalt Incorporation and Graphene Wrapping (Adv. Energy Mater. 33/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970127	21.8	1
12	Ink-jet printed In-Ga-Zn oxide nonvolatile TFT memory utilizing silicon nanocrystals embedded in SiO <sub>2</sub> gate dielectric <b>2013</b> ,		1
11	Random laser action in 3-D ZnO nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S154-S157		1
10	Topotactic Epitaxy Self-Assembly of Potassium Manganese Hexacyanoferrate Superstructures for Highly Reversible Sodium-Ion Batteries.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	1
9	3D porous H-Ti <sub>3</sub> C <sub>2</sub> T films as free-standing electrodes for zinc ion hybrid capacitors. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135052	14.7	1
8	Quasi-solid electrolyte developed on hierarchical rambutan-like AlOOH microspheres with high ionic conductivity for lithium ion batteries. <i>Nanoscale</i> , <b>2021</b> , 13, 13310-13317	7.7	1
7	A minireview on chemical vapor deposition growth of wafer-scale monolayer -BN single crystals. <i>Nanoscale</i> , <b>2021</b> , 13, 17310-17317	7.7	1
6	Unveiling the Relationship between the Surface Chemistry of Nanoparticles and Ion Transport Properties of the Resulting Composite Electrolytes. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 642-649	6.4	1
5	Recent advances in kinetic optimizations of cathode materials for rechargeable magnesium batteries. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 466, 214597	23.2	1
4	Determination of boron concentration in aqueous solutions based on conductivity measurement: a boron sensor based on conductivity measurement. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 1711-1716	3.3	0
3	Fabrication and Optical Properties of ZnO Quantum Dots. <i>Advanced Materials Research</i> , <b>2007</b> , 31, 71-73	0.5	
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