

Zhong Jin

List of Publications by Citations

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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.

182
papers

13,594
citations

57
h-index

114
g-index

199
ext. papers

16,195
ext. citations

11.4
avg, IF

6.64
L-index

#	Paper	IF	Citations
182	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15829-15832	16.4	700
181	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. <i>Advanced Materials</i> , 2015 , 27, 3541-5	24	573
180	Large-scale growth and characterizations of nitrogen-doped monolayer graphene sheets. <i>ACS Nano</i> , 2011 , 5, 4112-7	16.7	538
179	Fabrication of ultralong and electrically uniform single-walled carbon nanotubes on clean substrates. <i>Nano Letters</i> , 2009 , 9, 3137-41	11.5	441
178	Progress and Perspective of Electrocatalytic CO Reduction for Renewable Carbonaceous Fuels and Chemicals. <i>Advanced Science</i> , 2018 , 5, 1700275	13.6	423
177	Understanding and controlling the substrate effect on graphene electron-transfer chemistry via reactivity imprint lithography. <i>Nature Chemistry</i> , 2012 , 4, 724-32	17.6	407
176	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow CoS Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12710-12715	16.4	364
175	CsPbSnIBr Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14009-14012	16.4	353
174	Copper catalyzing growth of single-walled carbon nanotubes on substrates. <i>Nano Letters</i> , 2006 , 6, 2987-90.5	10.5	333
173	Bi- and trilayer graphene solutions. <i>Nature Nanotechnology</i> , 2011 , 6, 439-45	28.7	304
172	Breakdown in the wetting transparency of graphene. <i>Physical Review Letters</i> , 2012 , 109, 176101	7.4	268
171	Rational design of hybrid graphene films for high-performance transparent electrodes. <i>ACS Nano</i> , 2011 , 5, 6472-9	16.7	265
170	Metallic and polar Co ₉ S ₈ inlaid carbon hollow nanopolyhedra as efficient polysulfide mediator for lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 38, 239-248	17.1	241
169	Self-assembled ultrathin NiCo ₂ S ₄ nanoflakes grown on Ni foam as high-performance flexible electrodes for hydrogen evolution reaction in alkaline solution. <i>Nano Energy</i> , 2016 , 24, 139-147	17.1	233
168	Tuning on-off current ratio and field-effect mobility in a MoS ₂ -graphene heterostructure via Schottky barrier modulation. <i>ACS Nano</i> , 2014 , 8, 5790-8	16.7	207
167	Terahertz and infrared spectroscopy of gated large-area graphene. <i>Nano Letters</i> , 2012 , 12, 3711-5	11.5	203
166	Oxygen Vacancy Engineering Promoted Photocatalytic Ammonia Synthesis on Ultrathin Two-Dimensional Bismuth Oxybromide Nanosheets. <i>Nano Letters</i> , 2018 , 18, 7372-7377	11.5	200

165	Highly Efficient Retention of Polysulfides in "Sea Urchin"-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2017 , 17, 437-444	11.5	194
164	Emerging non-lithium ion batteries. <i>Energy Storage Materials</i> , 2016 , 4, 103-129	19.4	180
163	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018 , 12, 4868-4876	16.7	177
162	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2017 , 17, 7839-7846	11.5	172
161	Decoration, Migration, and Aggregation of Palladium Nanoparticles on Graphene Sheets. <i>Chemistry of Materials</i> , 2010 , 22, 5695-5699	9.6	172
160	Review on photocatalytic and electrocatalytic artificial nitrogen fixation for ammonia synthesis at mild conditions: Advances, challenges and perspectives. <i>Nano Research</i> , 2019 , 12, 1229-1249	10	172
159	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017 , 11, 7274-7283	16.7	167
158	Ultralow feeding gas flow guiding growth of large-scale horizontally aligned single-walled carbon nanotube arrays. <i>Nano Letters</i> , 2007 , 7, 2073-9	11.5	167
157	The effects of Al substitution and partial dissolution on ultrathin NiFeAl ternary layered double hydroxide nanosheets for oxygen evolution reaction in alkaline solution. <i>Nano Energy</i> , 2017 , 35, 350-357	17.1	165
156	Nitrogen-doped graphene: Synthesis, characterizations and energy applications. <i>Journal of Energy Chemistry</i> , 2018 , 27, 146-160	12	163
155	Click Chemistry on Solution-Dispersed Graphene and Monolayer CVD Graphene. <i>Chemistry of Materials</i> , 2011 , 23, 3362-3370	9.6	156
154	Walnut-Like Multicore Shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1800003	15.6	148
153	Liquid-phase exfoliated ultrathin Bi nanosheets: Uncovering the origins of enhanced electrocatalytic CO ₂ reduction on two-dimensional metal nanostructure. <i>Nano Energy</i> , 2018 , 53, 808-816	17.1	147
152	In Situ Thermal Synthesis of Inlaid Ultrathin MoS ₂ /Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016 , 28, 5733-5742	9.6	145
151	Nitrogen-Doped Carbon Nanomaterials as Highly Active and Specific Peroxidase Mimics. <i>Chemistry of Materials</i> , 2018 , 30, 6431-6439	9.6	139
150	All-Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects. <i>Solar Rrl</i> , 2017 , 1, 1700086	7.1	134
149	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. <i>Nature Communications</i> , 2013 , 4, 1663	17.4	126
148	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , 2017 , 9, 1237-1243	7.7	121

147	Highly Branched VS Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. <i>Advanced Materials</i> , 2018 , 30, e1802563	24	119
146	e occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. <i>Nature Communications</i> , 2019 , 10, 704	17.4	112
145	MoS ₂ -Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1601208	21.8	110
144	How catalysts affect the growth of single-walled carbon nanotubes on substrates. <i>Advanced Materials</i> , 2010 , 22, 1508-15	24	104
143	Efficient photocatalytic nitrogen fixation under ambient conditions enabled by the heterojunctions of n-type BiMoO and oxygen-vacancy-rich p-type BiOBr. <i>Nanoscale</i> , 2019 , 11, 10439-10445	7.7	102
142	Ionic liquid-immobilized polymer gel electrolyte with self-healing capability, high ionic conductivity and heat resistance for dendrite-free lithium metal batteries. <i>Nano Energy</i> , 2018 , 54, 17-25	17.1	96
141	Layered and scrolled nanocomposites with aligned semi-infinite graphene inclusions at the platelet limit. <i>Science</i> , 2016 , 353, 364-7	33.3	94
140	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. <i>Nano Energy</i> , 2016 , 20, 305-314	17.1	93
139	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Few-Walled Carbon Nanotubes in Flexible Polymer Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1606604	15.6	92
138	Biomacromolecules enabled dendrite-free lithium metal battery and its origin revealed by cryo-electron microscopy. <i>Nature Communications</i> , 2020 , 11, 488	17.4	90
137	Shape-Controlled Synthesis of CdS Nanocrystals in Mixed Solvents. <i>Crystal Growth and Design</i> , 2005 , 5, 1801-1806	3.5	89
136	High energy density hybrid lithium-ion capacitor enabled by Co ₃ ZnC@N-doped carbon nanopolyhedra anode and microporous carbon cathode. <i>Energy Storage Materials</i> , 2018 , 14, 246-252	19.4	88
135	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <i>ACS Nano</i> , 2018 , 12, 12492-12502	16.7	85
134	One-Step Synthesis of 2-Ethylhexylamine Pillared Vanadium Disulfide Nanoflowers with Ultralarge Interlayer Spacing for High-Performance Magnesium Storage. <i>Advanced Energy Materials</i> , 2019 , 9, 1900145	21.8	79
133	Mechanically Assisted Exfoliation and Functionalization of Thermally Converted Graphene Sheets. <i>Chemistry of Materials</i> , 2009 , 21, 3045-3047	9.6	79
132	Graphene-Ni-EMnO ₂ and -Cu-EMnO ₂ nanowire blends as highly active non-precious metal catalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , 2012 , 48, 7931-3	5.8	76
131	Molecular Design of Fused-Ring Phenazine Derivatives for Long-Cycling Alkaline Redox Flow Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 411-417	20.1	67
130	An all-inorganic perovskite solar capacitor for efficient and stable spontaneous photocharging. <i>Nano Energy</i> , 2018 , 52, 239-245	17.1	66

129	Nitrogen-Doped Carbon Nanotube Forests Planted on Cobalt Nanoflowers as Polysulfide Mediator for Ultralow Self-Discharge and High Areal-Capacity Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2018 , 18, 7949-7954	11.5	66
128	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9510-9516	13	65
127	Nano-Engineered Spacing in Graphene Sheets for Hydrogen Storage. <i>Chemistry of Materials</i> , 2011 , 23, 923-925	9.6	65
126	Resistive switching in nanogap systems on SiO ₂ substrates. <i>Small</i> , 2009 , 5, 2910-5	11	58
125	All-polymer particulate slurry batteries. <i>Nature Communications</i> , 2019 , 10, 2513	17.4	57
124	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2047-2052	13	56
123	High-Performance Alkaline Organic Redox Flow Batteries Based on 2-Hydroxy-3-carboxy-1,4-naphthoquinone. <i>ACS Energy Letters</i> , 2018 , 3, 2404-2409	20.1	56
122	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO ₂ to high-value renewable fuels. <i>Chemical Engineering Journal</i> , 2020 , 402, 126184	14.7	55
121	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. <i>Nanoscale</i> , 2017 , 9, 11841-11845	7.7	55
120	Disorder imposed limits of mono- and bilayer graphene electronic modification using covalent chemistry. <i>Nano Letters</i> , 2013 , 13, 809-17	11.5	55
119	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , 2016 , 8, 17911-17918	7.7	54
118	Heterointerface engineering of trilayer-shelled ultrathin MoS ₂ /MoP/N-doped carbon hollow nanobubbles for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24783-24792	13	54
117	Well-designed Te/SnS ₂ /Ag artificial nanoleaves for enabling and enhancing visible-light driven overall splitting of pure water. <i>Nano Energy</i> , 2017 , 39, 539-545	17.1	53
116	Two-terminal nonvolatile memories based on single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 4122-66.7	53	
115	Nitrogen-Doped Single-Walled Carbon Nanotubes Grown on Substrates: Evidence for Framework Doping and Their Enhanced Properties. <i>Advanced Functional Materials</i> , 2011 , 21, 986-992	15.6	52
114	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. <i>Science Advances</i> , 2016 , 2, e1600209	14.3	49
113	Conjugated polyimide-based organic cathodes with extremely-long cycling life for rechargeable magnesium batteries. <i>Energy Storage Materials</i> , 2020 , 26, 494-502	19.4	49
112	Recycling PM _{2.5} carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. <i>Nano Energy</i> , 2017 , 33, 229-237	17.1	48

111	Understanding surfactant/graphene interactions using a graphene field effect transistor: relating molecular structure to hysteresis and carrier mobility. <i>Langmuir</i> , 2012 , 28, 8579-86	4	46
110	Extended Metal-Organic Frameworks on Diverse Supports as Electrode Nanomaterials for Electrochemical Energy Storage. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3964-3990	5.6	46
109	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. <i>Chemistry of Materials</i> , 2019 , 31, 7565-7573	9.6	45
108	Surface plasmon resonance enhanced direct Z-scheme TiO ₂ /ZnTe/Au nanocorn cob heterojunctions for efficient photocatalytic overall water splitting. <i>Nanoscale</i> , 2019 , 11, 9053-9060	7.7	44
107	Covalent Organic Frameworks: Emerging Organic Solid Materials for Energy and Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27821-27852	9.5	44
106	Circular polarization dependent cyclotron resonance in large-area graphene in ultrahigh magnetic fields. <i>Physical Review B</i> , 2012 , 85,	3.3	44
105	One-step fabrication of large-area ultrathin MoS ₂ nanofilms with high catalytic activity for photovoltaic devices. <i>Nanoscale</i> , 2016 , 8, 16017-25	7.7	44
104	Hybrid Mg/Li-ion batteries enabled by Mg ²⁺ /Li ⁺ co-intercalation in VS ₄ nanodendrites. <i>Energy Storage Materials</i> , 2019 , 23, 741-748	19.4	43
103	Interface Engineering of Anchored Ultrathin TiO ₂ /MoS ₂ Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6084-6089	9.5	43
102	Li ₃ V ₂ (PO ₄) ₃ encapsulated flexible free-standing nanofabric cathodes for fast charging and long life-cycle lithium-ion batteries. <i>Nanoscale</i> , 2016 , 8, 7408-15	7.7	43
101	A structure-function relationship for the optical modulation of phenyl boronic acid-grafted, polyethylene glycol-wrapped single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17620-7	16.4	43
100	Cobalt-Iron Oxide Nanoarrays Supported on Carbon Fiber Paper with High Stability for Electrochemical Oxygen Evolution at Large Current Densities. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39809-39818	9.5	43
99	High-performance Li-ion capacitor based on black-TiO ₂ -x/graphene aerogel anode and biomass-derived microporous carbon cathode. <i>Nano Research</i> , 2019 , 12, 1713-1719	10	42
98	Solution-phase synthesis of heteroatom-substituted carbon scaffolds for hydrogen storage. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15246-51	16.4	42
97	Nanoporous and lyophilic battery separator from regenerated eggshell membrane with effective suppression of dendritic lithium growth. <i>Energy Storage Materials</i> , 2018 , 14, 258-266	19.4	41
96	In situ synthesis of polymer-modified mesoporous carbon CMK-3 composites for CO ₂ sequestration. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4782-6	9.5	41
95	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26834-26841	9.5	40
94	Flexible devices: from materials, architectures to applications. <i>Journal of Semiconductors</i> , 2018 , 39, 011010	10	38

93	Direct Preparation and Patterning of Iron Oxide Nanoparticles via Microcontact Printing on Silicon Wafers for the Growth of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006 , 18, 4109-4114	9.6	38
92	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. <i>Nanoscale</i> , 2017 , 9, 1972-1977	7.7	36
91	Controlled growth and photoconductive properties of hexagonal SnS ₂ nanoflakes with mesa-shaped atomic steps. <i>Nano Research</i> , 2017 , 10, 1434-1447	10	36
90	Ultrahigh rate capability and ultralong cycling stability of sodium-ion batteries enabled by wrinkled black titania nanosheets with abundant oxygen vacancies. <i>Nano Energy</i> , 2018 , 53, 91-96	17.1	34
89	Direct Growth of Single-Walled Carbon Nanotubes without Metallic Residues by Using Lead as a Catalyst. <i>Chemistry of Materials</i> , 2008 , 20, 7521-7525	9.6	34
88	Design of a wearable and shape-memory fibriform sensor for the detection of multimodal deformation. <i>Nanoscale</i> , 2017 , 10, 118-123	7.7	34
87	Scalable Production of the Silicon-Tin Yin-Yang Hybrid Structure with Graphene Coating for High Performance Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15388-15393	9.5	33
86	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25232-25238	9.5	33
85	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5151-5158	16.4	33
84	Highly efficient overall water splitting driven by all-inorganic perovskite solar cells and promoted by bifunctional bimetallic phosphide nanowire arrays. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20076-20082	13	33
83	CoxFeyN nanoparticles decorated on graphene sheets as high-performance electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12489-12497	13	32
82	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15041-15048	13	30
81	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. <i>Nano Research</i> , 2018 , 11, 6436-6446	10	29
80	Nanocapillarity and Nanoconfinement Effects of Pipet-like Bismuth@Carbon Nanotubes for Highly Efficient Electrocatalytic CO Reduction. <i>Nano Letters</i> , 2021 , 21, 2650-2657	11.5	29
79	Electronic and geometric structure engineering of bicontinuous porous Ag ₂ O nanoarchitectures for realizing selectivity-tunable electrochemical CO ₂ reduction. <i>Nano Energy</i> , 2020 , 73, 104796	17.1	28
78	Cucurbit[8]uril-Based Water-Soluble Supramolecular Dendronized Polymer: Evidence from Single Polymer Chain Morphology and Force Spectroscopy. <i>ACS Macro Letters</i> , 2017 , 6, 139-143	6.6	26
77	Preferential growth of single-walled carbon nanotubes on silica spheres by chemical vapor deposition. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6963-7	3.4	25
76	Superstretchable, thermostable and ultrahigh-loading lithium-sulfur batteries based on nanostructural gel cathodes and gel electrolytes. <i>Nano Energy</i> , 2021 , 80, 105510	17.1	25

75	van der Waals Epitaxial Growth and Interfacial Passivation of Two-Dimensional Single-Crystalline Few-Layer Gray Arsenic Nanoflakes. <i>Chemistry of Materials</i> , 2019 , 31, 4524-4535	9.6	23
74	Recent advances in anode materials for potassium-ion batteries: A review. <i>Nano Research</i> , 2019 , 11, 1050-1061	10	23
73	Chelation-assisted formation of multi-yolk-shell Co ₄ N@carbon nanoboxes for self-discharge-suppressed high-performance LiFeS ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20302-20309	13	22
72	Ultrahigh secondary electron emission of carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 96, 213113	3.4	20
71	Determination of complex optical constants and photovoltaic device design of all-inorganic CsPbBr ₃ perovskite thin films. <i>Optics Express</i> , 2020 , 28, 15706-15717	3.3	20
70	Stabilizing lithium metal anode by molecular beam epitaxy grown uniform and ultrathin bismuth film. <i>Nano Energy</i> , 2020 , 76, 105068	17.1	19
69	Inorganic hierarchical nanostructures induced by concentration difference and gradient. <i>Nano Research</i> , 2008 , 1, 213-220	10	19
68	Near-Infrared-Responsive Photo-Driven Nitrogen Fixation Enabled by Oxygen Vacancies and Sulfur Doping in Black TiOS Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4975-4983	9.5	19
67	Tuning the liquid-phase exfoliation of arsenic nanosheets by interaction with various solvents. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 12087-12090	3.6	18
66	High-Performance Lithium-Ion Capacitors Based on Porosity-Regulated Zirconium Metal-Organic Frameworks. <i>Small</i> , 2021 , 17, e2005209	11	18
65	Intermetallic SnSb nanodots embedded in carbon nanotubes reinforced nanofabric electrodes with high reversibility and rate capability for flexible Li-ion batteries. <i>Nanoscale</i> , 2019 , 11, 13282-13288	7.7	17
64	2D black TiO _{2-x} nanoplate-decorated Ti ₃ C ₂ MXene hybrids for ultrafast and elevated stable lithium storage. <i>FlatChem</i> , 2020 , 20, 100152	5.1	17
63	The dealloying-lithiation/delithiation-realloying mechanism of a breithauptite (NiSb) nanocrystal embedded nanofabric anode for flexible Li-ion batteries. <i>Nanoscale</i> , 2019 , 11, 8803-8811	7.7	16
62	Ultrafast one-step synthesis of N and Ti ³⁺ codoped TiO ₂ nanosheets via energetic material deflagration. <i>Nano Research</i> , 2018 , 11, 4735-4743	10	16
61	Charge transfer at junctions of a single layer of graphene and a metallic single walled carbon nanotube. <i>Small</i> , 2013 , 9, 1954-63	11	16
60	Site-Specific Deposition of Gold Nanoparticles on SWNTs. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13437-13441	3.8	16
59	Electrochemical Mg ²⁺ Displacement Driven Reversible Copper Extrusion/Intrusion Reactions for High-Rate Rechargeable Magnesium Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2009394	15.6	16
58	Near-Infrared-Emissive Amphiphilic BODIPY Assemblies Manipulated by Charge-Transfer Interaction: From Nanofibers to Nanorods and Nanodisks. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 3088-3095	15	15

57	Improving the capacity and cycling-stability of Lithium-Sulfur batteries using self-healing binders containing dynamic disulfide bonds. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2760-2767	5.8	15
56	Preparation and properties of CdS/Au composite nanorods and hollow Au tubes. <i>Science Bulletin</i> , 2010 , 55, 921-926		15
55	Different Dimensional Nanostructured Silicon Materials: From Synthesis Methodology to Application in High-Energy Lithium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1900962	3.5	14
54	High gravity-assisted green synthesis of ZnO nanoparticles via <i>Allium ursinum</i> : Conjoining nanochemistry to neuroscience. <i>Nano Express</i> , 2020 , 1, 020025	2	14
53	Template-Sacrificed Hot Fusion Construction and Nanoseed Modification of 3D Porous Copper Nanoscaffold Host for Stable-Cycling Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102735	15.6	14
52	Rational-Designed Principles for Electrochemical and Photoelectrochemical Upgrading of CO to Value-Added Chemicals.. <i>Advanced Science</i> , 2022 , e2105204	13.6	13
51	Photoluminescence spectral imaging of ultralong single-walled carbon nanotubes: Micromanipulation-induced strain, rupture, and determination of handedness. <i>Physical Review B</i> , 2009 , 80,	3.3	12
50	Assembling Structure of Single-Walled Carbon Nanotube Thin Bundles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8132-8135	3.8	11
49	Direct growth of carbon nanotube junctions by a two-step chemical vapor deposition. <i>Chemical Physics Letters</i> , 2006 , 432, 177-183	2.5	11
48	The preparation of Mg ₃ Si ₂ O ₅ (OH) ₄ nanotubes under solvothermal conditions. <i>Journal of Porous Materials</i> , 2006 , 13, 275-279	2.4	11
47	Electron migration optimization through nanostructural control of hierarchical Fe ₃ O ₄ based counter electrodes for high-performance dye-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 869, 114214	4.1	11
46	A high-performance oxygen evolution electrode of nanoporous Ni-based solid solution by simulating natural meteorites. <i>Chemical Engineering Journal</i> , 2021 , 410, 128340	14.7	10
45	Controlled growth and ion intercalation mechanism of monocrystalline niobium pentoxide nanotubes for advanced rechargeable aluminum-ion batteries. <i>Nanoscale</i> , 2020 , 12, 12531-12540	7.7	9
44	Inhibition of Phase Segregation in Cesium Lead Mixed-Halide Perovskites by B-Site Doping. <i>IScience</i> , 2020 , 23, 101415	6.1	9
43	Recent Advances in Emerging Non-Lithium Metal-Sulfur Batteries: A Review. <i>Advanced Energy Materials</i> , 2021 , 11, 2100770	21.8	8
42	Quasi-Phthalocyanine Conjugated Covalent Organic Frameworks with Nitrogen-Coordinated Transition Metal Centers for High-Efficiency Electrocatalytic Ammonia Synthesis.. <i>Nano Letters</i> , 2021 ,	11.5	8
41	Seed-mediated growth of ZnO nanorods on multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4441-6	1.3	7
40	A carbon-coated shuttle-like Fe ₂ O ₃ /Fe _{1-x} S heterostructure derived from metal-organic frameworks with high pseudocapacitance for ultrafast lithium storage. <i>Nanoscale Advances</i> , 2020 , 2, 5201-5208	5.1	7

39	N-alkyl-carboxylate-functionalized anthraquinone for long-cycling aqueous redox flow batteries. <i>Energy Storage Materials</i> , 2021 , 36, 417-426	19.4	7
38	Fluorinated quinone derived organosulfur copolymer cathodes for long-cycling, thermostable and flexible lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 424, 1303-16	14.7	7
37	All-Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects (Solar RRL 100017). <i>Solar Rrl</i> , 2017 , 1, 1770-138	7.1	6
36	Energetic metal-organic frameworks deflagration enabled ultrafast low-temperature synthesis of ultra-light magnetic nanoparticles decorated high-lossy materials. <i>Carbon</i> , 2020 , 165, 286-295	10.4	6
35	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H ₂ and O ₂ . <i>Catalysts</i> , 2020 , 10, 442	4	6
34	Controlled radical double ring-opening polymerization of 2-methylene-1,4,6-trioxaspiro[4,4]nonane. <i>Polymer International</i> , 2000 , 49, 1496-1499	3.3	6
33	A Review on Recent Advances for Boosting Initial Coulombic Efficiency of Silicon Anodic Lithium Ion batteries. <i>Small</i> , 2021 , e2102894	11	6
32	The Dual Role of Bridging Phenylene in an Extended Bipyridine System for High-Voltage and Stable Two-Electron Storage in Redox Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44174-44183	9.5	6
31	Controllable growth and flexible optoelectronic devices of regularly-assembled Bi ₂ S ₃ semiconductor nanowire bifurcated junctions and crosslinked networks. <i>Nano Research</i> , 2020 , 13, 2226-2232	10	5
30	SiO _x /C-Ag nanosheets derived from Zintl phase CaSi ₂ via a facile redox reaction for high performance lithium storage. <i>Nano Research</i> , 2022 , 15, 395	10	5
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27	Pointwise plucking of suspended carbon nanotubes. <i>Nano Letters</i> , 2012 , 12, 3663-7	11.5	4
26	Hypersaline Aqueous Lithium-Ion Slurry Flow Batteries. <i>ACS Energy Letters</i> , 2022 , 7, 862-870	20.1	4
25	Reversible Redox Chemistry in Pyrrolidinium-Based TEMPO Radical and Extended Viologen for High-Voltage and Long-Life Aqueous Redox Flow Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2103478	21.8	4
24	Rh/Al Nanoantenna Photothermal Catalyst for Wide-Spectrum Solar-Driven CO Methanation with Nearly 100% Selectivity. <i>Nano Letters</i> , 2021 , 21, 8824-8830	11.5	4
23	Photodriven Catalytic Hydrogenation of CO to CH ₄ with Nearly 100% Selectivity over Ag Clusters. <i>Nano Letters</i> , 2021 , 21, 8693-8700	11.5	4
22	Cluster-Bridging-Coordinated Bimetallic Metal-Organic Framework as High-Performance Anode Material for Lithium-Ion Storage. <i>Small Structures</i> , 2021 , 2, 2100122	8.7	4

21	Electric-Field-Induced Ion Migration Behavior in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7106-7112	6.4	4
20	Rational design of carbon nanotube architectures for lithium-halogen batteries: Advances and perspectives. <i>Energy Storage Materials</i> , 2021 , 42, 723-752	19.4	4
19	Controllable Solid-Phase Fabrication of an Fe ₂ O ₃ /Fe ₅ C ₂ /Fe ₃ O ₄ Electrocatalyst toward Optimizing the Oxygen Reduction Reaction in Zinc-Air Batteries. <i>Nano Letters</i> ,	11.5	4
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17	2D Arsenene and Arsenic Materials: Fundamental Properties, Preparation, and Applications. <i>Small</i> , 2021 , e2104556	11	3
16	Rapid CO ₂ exfoliation of Zintl phase CaSi ₂ -derived ultrathin free-standing Si/SiO _x /C nanosheets for high-performance lithium storage. <i>Science China Materials</i> ,1	7.1	3
15	2D layered black arsenic-phosphorus materials: Synthesis, properties, and device applications. <i>Nano Research</i> , 2022 , 15, 3737-3752	10	3
14	Reasonable construction of Fe ₃ O ₄ /Ni@N-RGO nanoflowers as highly efficient counter electrodes for dye-sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3604-3612	5.8	2
13	Abnormal Raman Intensity of Single-Walled Carbon Nanotubes Grown on Silica Spheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5075-5080	3.8	2
12	Bicontinuous Nanoporous Nitrogen/Carbon-Codoped FeCoNiMg Alloy as a High-Performance Electrode for the Oxygen Evolution Reaction.. <i>ACS Applied Materials & Interfaces</i> , 2022 , 14, 784-793	9.5	2
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5	Nanolithography based on metalized DNA templates for graphene patterning. <i>Current Protocols in Chemical Biology</i> , 2014 , 6, 53-64	1.8	1
4	2D arsenenes. <i>Journal of Semiconductors</i> , 2022 , 43, 030201	2.3	1

3	Ag ₂₄ Au cluster decorated mesoporous Co ₃ O ₄ for highly selective and efficient photothermal CO ₂ hydrogenation. <i>Nano Research</i> ,1	10	1
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1	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. <i>Angewandte Chemie</i> , 2020 , 132, 5189-5196	3.6	