

# Zhong Jin

## 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.

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	Rational-Designed Principles for Electrochemical and Photoelectrochemical Upgrading of CO to Value-Added Chemicals.. <i>Advanced Science</i> , <b>2022</b> , e2105204	13.6	13
181	Hypersaline Aqueous Lithium-Ion Slurry Flow Batteries. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 862-870	20.1	4
180	Bicontinuous Nanoporous Nitrogen/Carbon-Codoped FeCoNiMg Alloy as a High-Performance Electrode for the Oxygen Evolution Reaction.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> , 14, 784-793	9.5	2
179	Alkaline soluble 1,3,5,7-tetrahydroxyanthraquinone with high reversibility as anolyte for aqueous redox flow battery. <i>Journal of Power Sources</i> , <b>2022</b> , 524, 231001	8.9	2
178	SiOx/C-Ag nanosheets derived from Zintl phase CaSi2 via a facile redox reaction for high performance lithium storage. <i>Nano Research</i> , <b>2022</b> , 15, 395	10	5
177	2D arsenenes. <i>Journal of Semiconductors</i> , <b>2022</b> , 43, 030201	2.3	1
176	2D layered black arsenic-phosphorus materials: Synthesis, properties, and device applications. <i>Nano Research</i> , <b>2022</b> , 15, 3737-3752	10	3
175	Initial-Anode-Free Aluminum Ion Batteries: In-depth Monitoring and Mechanism Studies. <i>Energy Storage Materials</i> , <b>2021</b> ,	19.4	3
174	2D Arsenene and Arsenic Materials: Fundamental Properties, Preparation, and Applications. <i>Small</i> , <b>2021</b> , e2104556	11	3
173	A Review on Recent Advances for Boosting Initial Coulombic Efficiency of Silicon Anodic Lithium Ion batteries. <i>Small</i> , <b>2021</b> , e2102894	11	6
172	Rh/Al Nanoantenna Photothermal Catalyst for Wide-Spectrum Solar-Driven CO Methanation with Nearly 100% Selectivity. <i>Nano Letters</i> , <b>2021</b> , 21, 8824-8830	11.5	4
171	Photodriven Catalytic Hydrogenation of CO to CH with Nearly 100% Selectivity over Ag Clusters. <i>Nano Letters</i> , <b>2021</b> , 21, 8693-8700	11.5	4
170	Cluster-Bridging-Coordinated Bimetallic Metal-Organic Framework as High-Performance Anode Material for Lithium-Ion Storage. <i>Small Structures</i> , <b>2021</b> , 2, 2100122	8.7	4
169	Nanocapillarity and Nanoconfinement Effects of Pipet-like Bismuth@Carbon Nanotubes for Highly Efficient Electrocatalytic CO Reduction. <i>Nano Letters</i> , <b>2021</b> , 21, 2650-2657	11.5	29
168	A high-performance oxygen evolution electrode of nanoporous Ni-based solid solution by simulating natural meteorites. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128340	14.7	10
167	N-alkyl-carboxylate-functionalized anthraquinone for long-cycling aqueous redox flow batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 36, 417-426	19.4	7
166	Recent Advances in Emerging Non-Lithium Metal-Sulfur Batteries: A Review. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100770	21.8	8

165	Pseudohalide substitution and potassium doping in FA0.98K0.02Pb(SCN)2I for high-stability hole-conductor-free perovskite solar cells. <i>Journal of Power Sources</i> , <b>2021</b> , 494, 229781	8.9	5
164	Regulating the Alloying Degree and Electronic Structure of PtAu Nanoparticles for High-Efficiency Direct C2+ Alcohol Fuel Cells. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3767-3778	9.6	2
163	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> , <b>2021</b> , 31, 2102735	15.6	14
162	Electric-Field-Induced Ion Migration Behavior in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 7106-7112	6.4	4
161	Superstretchable, thermostable and ultrahigh-loading lithium-sulfur batteries based on nanostructural gel cathodes and gel electrolytes. <i>Nano Energy</i> , <b>2021</b> , 80, 105510	17.1	25
160	High-Performance Lithium-Ion Capacitors Based on Porosity-Regulated Zirconium Metal-Organic Frameworks. <i>Small</i> , <b>2021</b> , 17, e2005209	11	18
159	Electrochemical Mg <sup>2+</sup> Displacement Driven Reversible Copper Extrusion/Intrusion Reactions for High-Rate Rechargeable Magnesium Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009394	15.6	16
158	Near-Infrared-Responsive Photo-Driven Nitrogen Fixation Enabled by Oxygen Vacancies and Sulfur Doping in Black TiOS Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 4975-4983	9.5	19
157	Spongy-like N, S-codoped ultrathin layered carbon assembly for realizing high performance sodium-ion batteries. <i>FlatChem</i> , <b>2021</b> , 28, 100258	5.1	2
156	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 &amp; Interfaces</i> , <b>2021</b> , 13, 44174-44183	8.5	6
155	Rational design of carbon nanotube architectures for lithium-halogen batteries: Advances and perspectives. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 723-752	19.4	4
154	Fluorinated quinone derived organosulfur copolymer cathodes for long-cycling, thermostable and flexible lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130316	14.7	7
153	Quasi-Phthalocyanine Conjugated Covalent Organic Frameworks with Nitrogen-Coordinated Transition Metal Centers for High-Efficiency Electrocatalytic Ammonia Synthesis.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	8
152	Energetic metal-organic frameworks deflagration enabled ultrafast low-temperature synthesis of ultra-light magnetic nanoparticles decorated high-lossy materials. <i>Carbon</i> , <b>2020</b> , 165, 286-295	10.4	6
151	Controlled growth and ion intercalation mechanism of monocrystalline niobium pentoxide nanotubes for advanced rechargeable aluminum-ion batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 12531-12540	7.7	9
150	Reasonable construction of Fe <sub>3</sub> O <sub>4</sub> /Ni@N-RGO nanoflowers as highly efficient counter electrodes for dye-sensitized solar cells. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 3604-3612	5.8	2
149	Covalent Organic Frameworks: Emerging Organic Solid Materials for Energy and Electrochemical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 27821-27852	9.5	44
148	Controllable growth and flexible optoelectronic devices of regularly-assembled Bi <sub>2</sub> S <sub>3</sub> semiconductor nanowire bifurcated junctions and crosslinked networks. <i>Nano Research</i> , <b>2020</b> , 13, 2226-2232	10.2	5

147	Improving the capacity and cycling-stability of Lithium-Sulfur batteries using self-healing binders containing dynamic disulfide bonds. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 2760-2767	5.8	15
146	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO <sub>2</sub> to high-value renewable fuels. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126184	14.7	55
145	Promoting Z-to-E Thermal Isomerization of Azobenzene Derivatives by Noncovalent Interaction with Phosphorene: Theoretical Prediction and Experimental Study. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15961-15968	3.8	1
144	Stabilizing lithium metal anode by molecular beam epitaxy grown uniform and ultrathin bismuth film. <i>Nano Energy</i> , <b>2020</b> , 76, 105068	17.1	19
143	Biomacromolecules enabled dendrite-free lithium metal battery and its origin revealed by cryo-electron microscopy. <i>Nature Communications</i> , <b>2020</b> , 11, 488	17.4	90
142	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H <sub>2</sub> and O <sub>2</sub> . <i>Catalysts</i> , <b>2020</b> , 10, 442	4	6
141	Electronic and geometric structure engineering of bicontinuous porous Ag <sub>2</sub> S nanoarchitectures for realizing selectivity-tunable electrochemical CO <sub>2</sub> reduction. <i>Nano Energy</i> , <b>2020</b> , 73, 104796	17.1	28
140	Determination of complex optical constants and photovoltaic device design of all-inorganic CsPbBr <sub>3</sub> perovskite thin films. <i>Optics Express</i> , <b>2020</b> , 28, 15706-15717	3.3	20
139	Electron migration optimization through nanostructural control of hierarchical Fe <sub>3</sub> O <sub>4</sub> based counter electrodes for high-performance dye-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 869, 114214	4.1	11
138	High gravity-assisted green synthesis of ZnO nanoparticles via Allium ursinum: Conjoining nanochemistry to neuroscience. <i>Nano Express</i> , <b>2020</b> , 1, 020025	2	14
137	2D black TiO <sub>2</sub> -x nanoplate-decorated Ti <sub>3</sub> C <sub>2</sub> MXene hybrids for ultrafast and elevated stable lithium storage. <i>FlatChem</i> , <b>2020</b> , 20, 100152	5.1	17
136	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5151-5158	16.4	33
135	Molecular Design of Fused-Ring Phenazine Derivatives for Long-Cycling Alkaline Redox Flow Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 411-417	20.1	67
134	Conjugated polyimide-based organic cathodes with extremely-long cycling life for rechargeable magnesium batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 494-502	19.4	49
133	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5189-5196	3.6	
132	Controllable synthesis of nitrogen-doped carbon nanobubbles to realize high-performance lithium and sodium storage. <i>Dalton Transactions</i> , <b>2020</b> , 49, 15712-15717	4.3	2
131	A carbon-coated shuttle-like Fe <sub>2</sub> O <sub>3</sub> /FeS heterostructure derived from metal-organic frameworks with high pseudocapacitance for ultrafast lithium storage. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 5201-5208	5.1	7
130	Inhibition of Phase Segregation in Cesium Lead Mixed-Halide Perovskites by B-Site Doping. <i>iScience</i> , <b>2020</b> , 23, 101415	6.1	9

129	Extended Metal-Organic Frameworks on Diverse Supports as Electrode Nanomaterials for Electrochemical Energy Storage. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3964-3990	5.6	46
128	Intermetallic SnSb nanodots embedded in carbon nanotubes reinforced nanofabric electrodes with high reversibility and rate capability for flexible Li-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 13282-13288	7.7	17
127	Hybrid Mg/Li-ion batteries enabled by Mg <sup>2+</sup> /Li <sup>+</sup> co-intercalation in VS <sub>4</sub> nanodendrites. <i>Energy Storage Materials</i> , <b>2019</b> , 23, 741-748	19.4	43
126	All-polymer particulate slurry batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 2513	17.4	57
125	van der Waals Epitaxial Growth and Interfacial Passivation of Two-Dimensional Single-Crystalline Few-Layer Gray Arsenic Nanoflakes. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4524-4535	9.6	23
124	High-performance Li-ion capacitor based on black-TiO <sub>2-x</sub> /graphene aerogel anode and biomass-derived microporous carbon cathode. <i>Nano Research</i> , <b>2019</b> , 12, 1713-1719	10	42
123	Tuning the liquid-phase exfoliation of arsenic nanosheets by interaction with various solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 12087-12090	3.6	18
122	One-Step Synthesis of 2-Ethylhexylamine Pillared Vanadium Disulfide Nanoflowers with Ultralarge Interlayer Spacing for High-Performance Magnesium Storage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900145	21.8	79
121	CoxFeyN nanoparticles decorated on graphene sheets as high-performance electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12489-12497	13	32
120	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> , <b>2019</b> , 11, 10439-10445	7.7	102
119	Surface plasmon resonance enhanced direct Z-scheme TiO <sub>2</sub> /ZnTe/Au nanocorn cob heterojunctions for efficient photocatalytic overall water splitting. <i>Nanoscale</i> , <b>2019</b> , 11, 9053-9060	7.7	44
118	The dealloying-lithiation/delithiation-realloying mechanism of a breithauptite (NiSb) nanocrystal embedded nanofabric anode for flexible Li-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 8803-8811	7.7	16
117	e occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. <i>Nature Communications</i> , <b>2019</b> , 10, 704	17.4	112
116	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7565-7573	9.6	45
115	Chelation-assisted formation of multi-yolk-shell Co <sub>4</sub> N@carbon nanoboxes for self-discharge-suppressed high-performance LiBeS <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20302-20309	13	22
114	Different Dimensional Nanostructured Silicon Materials: From Synthesis Methodology to Application in High-Energy Lithium-Ion Batteries. <i>Energy Technology</i> , <b>2019</b> , 7, 1900962	3.5	14
113	Review on photocatalytic and electrocatalytic artificial nitrogen fixation for ammonia synthesis at mild conditions: Advances, challenges and perspectives. <i>Nano Research</i> , <b>2019</b> , 12, 1229-1249	10	172
112	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 4868-4876	16.7	177

111	Nanoporous and lyophilic battery separator from regenerated eggshell membrane with effective suppression of dendritic lithium growth. <i>Energy Storage Materials</i> , <b>2018</b> , 14, 258-266	19.4	41
110	Ultrafast one-step synthesis of N and Ti <sup>3+</sup> codoped TiO <sub>2</sub> nanosheets via energetic material deflagration. <i>Nano Research</i> , <b>2018</b> , 11, 4735-4743	10	16
109	High energy density hybrid lithium-ion capacitor enabled by Co <sub>3</sub> ZnC@N-doped carbon nanopolyhedra anode and microporous carbon cathode. <i>Energy Storage Materials</i> , <b>2018</b> , 14, 246-252	19.4	88
108	Correction to 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> , <b>2018</b> , 18, 1553	11.5	4
107	Interface Engineering of Anchored Ultrathin TiO/MoS Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 6084-6089	9.5	43
106	Flexible devices: from materials, architectures to applications. <i>Journal of Semiconductors</i> , <b>2018</b> , 39, 011010	10	38
105	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> , <b>2018</b> , 28, 1800003	15.6	148
104	Progress and Perspective of Electrocatalytic CO Reduction for Renewable Carbonaceous Fuels and Chemicals. <i>Advanced Science</i> , <b>2018</b> , 5, 1700275	13.6	423
103	An all-inorganic perovskite solar capacitor for efficient and stable spontaneous photocharging. <i>Nano Energy</i> , <b>2018</b> , 52, 239-245	17.1	66
102	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> , <b>2018</b> , 11, 6436-6446	10	29
101	Nitrogen-Doped Carbon Nanomaterials as Highly Active and Specific Peroxidase Mimics. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6431-6439	9.6	139
100	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> , <b>2018</b> , 53, 91-96	17.1	34
99	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2047-2052	13	56
98	Nitrogen-doped graphene: Synthesis, characterizations and energy applications. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 146-160	12	163
97	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 12492-12502	16.7	85
96	Heterointerface engineering of trilayer-shelled ultrathin MoS <sub>2</sub> /MoP/N-doped carbon hollow nanobubbles for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24783-24792	13	54
95	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> , <b>2018</b> , 18, 7949-7954	11.5	66
94	Liquid-phase exfoliated ultrathin Bi nanosheets: Uncovering the origins of enhanced electrocatalytic CO <sub>2</sub> reduction on two-dimensional metal nanostructure. <i>Nano Energy</i> , <b>2018</b> , 53, 808-816	17.1	147

93	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> , <b>2018</b> , 54, 17-25	17.1	96
92	Oxygen Vacancy Engineering Promoted Photocatalytic Ammonia Synthesis on Ultrathin Two-Dimensional Bismuth Oxybromide Nanosheets. <i>Nano Letters</i> , <b>2018</b> , 18, 7372-7377	11.5	200
91	Cobalt-Iron Oxide Nanoarrays Supported on Carbon Fiber Paper with High Stability for Electrochemical Oxygen Evolution at Large Current Densities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39809-39818	9.5	43
90	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> , <b>2018</b> , 6, 20076-20082	12.0	33
89	High-Performance Alkaline Organic Redox Flow Batteries Based on 2-Hydroxy-3-carboxy-1,4-naphthoquinone. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2404-2409	20.1	56
88	Highly Branched VS Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802563	24	119
87	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. <i>Nano Energy</i> , <b>2017</b> , 33, 229-237	17.1	48
86	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. <i>Nanoscale</i> , <b>2017</b> , 9, 1972-1977	7.7	36
85	Cucurbit[8]uril-Based Water-Soluble Supramolecular Dendronized Polymer: Evidence from Single Polymer Chain Morphology and Force Spectroscopy. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 139-143	6.6	26
84	Scalable Production of the Silicon-Tin Yin-Yang Hybrid Structure with Graphene Coating for High Performance Lithium-Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15388-15393	9.5	33
83	Metallic and polar Co <sub>9</sub> S <sub>8</sub> inlaid carbon hollow nanopolyhedra as efficient polysulfide mediator for lithium-sulfur batteries. <i>Nano Energy</i> , <b>2017</b> , 38, 239-248	17.1	241
82	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> , <b>2017</b> , 35, 350-357	17.1	165
81	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Few-Walled Carbon Nanotubes in Flexible Polymer Composites. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606604	15.6	92
80	Controlled growth and photoconductive properties of hexagonal SnS <sub>2</sub> nanoflakes with mesa-shaped atomic steps. <i>Nano Research</i> , <b>2017</b> , 10, 1434-1447	10	36
79	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> , <b>2017</b> , 17, 437-444	11.5	194
78	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , <b>2017</b> , 9, 1237-1243	7.7	121
77	All-Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects (Solar RRL 1002017). <i>Solar Rrl</i> , <b>2017</b> , 1, 1770138	7.1	6
76	Near-Infrared-Emissive Amphiphilic BODIPY Assemblies Manipulated by Charge-Transfer Interaction: From Nanofibers to Nanorods and Nanodisks. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 3088-3095	14.5	15

75	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> , <b>2017</b> , 139, 12710-12715	16.4	364
74	All-Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700087.1	7.1	134
73	CsPbSnIBr Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14009-14012	16.4	353
72	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. <i>Nanoscale</i> , <b>2017</b> , 9, 11841-11845	7.7	55
71	Well-designed Te/SnS <sub>2</sub> /Ag artificial nanoleaves for enabling and enhancing visible-light driven overall splitting of pure water. <i>Nano Energy</i> , <b>2017</b> , 39, 539-545	17.1	53
70	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 7839-7846	11.5	172
69	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25232-25238	9.5	33
68	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 7274-7283	16.7	167
67	MoS <sub>2</sub> -Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601208	21.8	110
66	Design of a wearable and shape-memory fibriform sensor for the detection of multimodal deformation. <i>Nanoscale</i> , <b>2017</b> , 10, 118-123	7.7	34
65	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15829-15832	16.4	700
64	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. <i>Science Advances</i> , <b>2016</b> , 2, e1600209	14.3	49
63	In Situ Thermal Synthesis of Inlaid Ultrathin MoS <sub>2</sub> /Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5733-5742	9.6	145
62	Layered and scrolled nanocomposites with aligned semi-infinite graphene inclusions at the platelet limit. <i>Science</i> , <b>2016</b> , 353, 364-7	33.3	94
61	Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> encapsulated flexible free-standing nanofabric cathodes for fast charging and long life-cycle lithium-ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 7408-15	7.7	43
60	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 20, 305-314	17.1	93
59	Emerging non-lithium ion batteries. <i>Energy Storage Materials</i> , <b>2016</b> , 4, 103-129	19.4	180
58	Self-assembled ultrathin NiCo <sub>2</sub> S <sub>4</sub> nanoflakes grown on Ni foam as high-performance flexible electrodes for hydrogen evolution reaction in alkaline solution. <i>Nano Energy</i> , <b>2016</b> , 24, 139-147	17.1	233



57	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15041-15048	13	30
56	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26834-26841	9.5	40
55	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , <b>2016</b> , 8, 17911-17918	7.7	54
54	One-step fabrication of large-area ultrathin MoS <sub>2</sub> nanofilms with high catalytic activity for photovoltaic devices. <i>Nanoscale</i> , <b>2016</b> , 8, 16017-25	7.7	44
53	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. <i>Advanced Materials</i> , <b>2015</b> , 27, 3541-5	24	573
52	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9510-9516	13	65
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50	Nanolithography based on metalized DNA templates for graphene patterning. <i>Current Protocols in Chemical Biology</i> , <b>2014</b> , 6, 53-64	1.8	1
49	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. <i>Nature Communications</i> , <b>2013</b> , 4, 1663	17.4	126
48	Charge transfer at junctions of a single layer of graphene and a metallic single walled carbon nanotube. <i>Small</i> , <b>2013</b> , 9, 1954-63	11	16
47	Disorder imposed limits of mono- and bilayer graphene electronic modification using covalent chemistry. <i>Nano Letters</i> , <b>2013</b> , 13, 809-17	11.5	55
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44	Pointwise plucking of suspended carbon nanotubes. <i>Nano Letters</i> , <b>2012</b> , 12, 3663-7	11.5	4
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42	Breakdown in the wetting transparency of graphene. <i>Physical Review Letters</i> , <b>2012</b> , 109, 176101	7.4	268
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40	Understanding surfactant/graphene interactions using a graphene field effect transistor: relating molecular structure to hysteresis and carrier mobility. <i>Langmuir</i> , <b>2012</b> , 28, 8579-86	4	46

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33	Bi- and trilayer graphene solutions. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 439-45	28.7	304
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31	Ultrahigh secondary electron emission of carbon nanotubes. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 213113	3.4	20
30	Solution-phase synthesis of heteroatom-substituted carbon scaffolds for hydrogen storage. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15246-51	16.4	42
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28	Preparation and properties of CdS/Au composite nanorods and hollow Au tubes. <i>Science Bulletin</i> , <b>2010</b> , 55, 921-926		15
27	How catalysts affect the growth of single-walled carbon nanotubes on substrates. <i>Advanced Materials</i> , <b>2010</b> , 22, 1508-15	24	104
26	Resistive switching in nanogap systems on SiO <sub>2</sub> substrates. <i>Small</i> , <b>2009</b> , 5, 2910-5	11	58
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20	Two-terminal nonvolatile memories based on single-walled carbon nanotubes. <i>ACS Nano</i> , <b>2009</b> , 3, 4122-66.7		53
19	Site-Specific Deposition of Gold Nanoparticles on SWNTs. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 13437-13441	3.8	16
18	Direct Growth of Single-Walled Carbon Nanotubes without Metallic Residues by Using Lead as a Catalyst. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 7521-7525	9.6	34
17	Seed-mediated growth of ZnO nanorods on multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4441-6	1.3	7
16	Inorganic hierarchical nanostructures induced by concentration difference and gradient. <i>Nano Research</i> , <b>2008</b> , 1, 213-220	10	19
15	Ultralow feeding gas flow guiding growth of large-scale horizontally aligned single-walled carbon nanotube arrays. <i>Nano Letters</i> , <b>2007</b> , 7, 2073-9	11.5	167
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12	Direct growth of carbon nanotube junctions by a two-step chemical vapor deposition. <i>Chemical Physics Letters</i> , <b>2006</b> , 432, 177-183	2.5	11
11	The preparation of Mg <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> nanotubes under solvothermal conditions. <i>Journal of Porous Materials</i> , <b>2006</b> , 13, 275-279	2.4	11
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9	Preferential growth of single-walled carbon nanotubes on silica spheres by chemical vapor deposition. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 6963-7	3.4	25
8	Controlled radical double ring-opening polymerization of 2-methylene-1,4,6-trioxaspiro[4,4]nonane. <i>Polymer International</i> , <b>2000</b> , 49, 1496-1499	3.3	6
7	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> , 2103478	21.8	4
6	Recent advances in anode materials for potassium-ion batteries: A review. <i>Nano Research</i> , 1	10	23
5	Rapid CO <sub>2</sub> exfoliation of Zintl phase CaSi <sub>2</sub> -derived ultrathin free-standing Si/SiO <sub>x</sub> /C nanosheets for high-performance lithium storage. <i>Science China Materials</i> , 1	7.1	3
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3	Rapid construction of highly-dispersed cobalt nanoclusters embedded in hollow cubic carbon walls as an effective polysulfide promoter in high-energy lithium-sulfur batteries. <i>Nano Research</i> ,1	10	0
2	Ag <sub>24</sub> Au cluster decorated mesoporous Co <sub>3</sub> O <sub>4</sub> for highly selective and efficient photothermal CO <sub>2</sub> hydrogenation. <i>Nano Research</i> ,1	10	1
1	Controllable Solid-Phase Fabrication of an Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>5</sub> C <sub>2</sub> /Fe <sub>3</sub> C Electro catalyst toward Optimizing the Oxygen Reduction Reaction in Zinc Air Batteries. <i>Nano Letters</i> ,	11.5	4