

Zhong Jin

List of Publications by Year in descending order

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192
papers

18,852
citations

13087

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12585

132
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199
all docs

199
docs citations

199
times ranked

24053
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15829-15832.	6.6	899
2	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. <i>Advanced Materials</i> , 2015, 27, 3541-3545.	11.1	680
3	Progress and Perspective of Electrocatalytic CO ₂ Reduction for Renewable Carbonaceous Fuels and Chemicals. <i>Advanced Science</i> , 2018, 5, 1700275.	5.6	638
4	Large-Scale Growth and Characterizations of Nitrogen-Doped Monolayer Graphene Sheets. <i>ACS Nano</i> , 2011, 5, 4112-4117.	7.3	590
5	Fabrication of Ultralong and Electrically Uniform Single-Walled Carbon Nanotubes on Clean Substrates. <i>Nano Letters</i> , 2009, 9, 3137-3141.	4.5	516
6	Understanding and controlling the substrate effect on graphene electron-transfer chemistry via reactivity imprint lithography. <i>Nature Chemistry</i> , 2012, 4, 724-732.	6.6	463
7	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow Co ₃ S ₄ Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 12710-12715.	6.6	456
8	CsPb _{0.9} Sn _{0.1} IBr ₂ Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 14009-14012.	6.6	447
9	Copper Catalyzing Growth of Single-Walled Carbon Nanotubes on Substrates. <i>Nano Letters</i> , 2006, 6, 2987-2990.	4.5	350
10	Bi- and trilayer graphene solutions. <i>Nature Nanotechnology</i> , 2011, 6, 439-445.	15.6	337
11	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.	8.2	314
12	Breakdown in the Wetting Transparency of Graphene. <i>Physical Review Letters</i> , 2012, 109, 176101.	2.9	313
13	Oxygen Vacancy Engineering Promoted Photocatalytic Ammonia Synthesis on Ultrathin Two-Dimensional Bismuth Oxybromide Nanosheets. <i>Nano Letters</i> , 2018, 18, 7372-7377.	4.5	308
14	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.	5.8	301
15	Rational Design of Hybrid Graphene Films for High-Performance Transparent Electrodes. <i>ACS Nano</i> , 2011, 5, 6472-6479.	7.3	290
16	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.	8.2	282
17	Nitrogen-doped graphene: Synthesis, characterizations and energy applications. <i>Journal of Energy Chemistry</i> , 2018, 27, 146-160.	7.1	254
18	Emerging non-lithium ion batteries. <i>Energy Storage Materials</i> , 2016, 4, 103-129.	9.5	252

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19	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.	8.2	247
20	Tuning Onâ€œOff Current Ratio and Field-Effect Mobility in a MoS ₂ â€œGraphene Heterostructure via Schottky Barrier Modulation. <i>ACS Nano</i> , 2014, 8, 5790-5798.	7.3	240
21	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.	8.2	237
22	Nitrogen-Doped Carbon Nanomaterials as Highly Active and Specific Peroxidase Mimics. <i>Chemistry of Materials</i> , 2018, 30, 6431-6439.	3.2	236
23	Terahertz and Infrared Spectroscopy of Gated Large-Area Graphene. <i>Nano Letters</i> , 2012, 12, 3711-3715.	4.5	235
24	Highly Efficient Retention of Polysulfides in â€œSea Urchinâ€œ-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithiumâ€œSulfur Batteries. <i>Nano Letters</i> , 2017, 17, 437-444.	4.5	223
25	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithiumâ€œSulfur Batteries. <i>ACS Nano</i> , 2018, 12, 4868-4876.	7.3	222
26	Cerium Oxide Nanocrystal Embedded Bimodal Microporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithiumâ€œSulfur Batteries. <i>ACS Nano</i> , 2017, 11, 7274-7283.	7.3	213
27	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithiumâ€œSulfur Batteries. <i>Nano Letters</i> , 2017, 17, 7839-7846.	4.5	206
28	eg occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. <i>Nature Communications</i> , 2019, 10, 704.	5.8	199
29	Walnutâ€œLike Multicoreâ€œShell MnO Encapsulated Nitrogenâ€œRich Carbon Nanocapsules as Anode Material for Longâ€œCycling and Softâ€œPacked Lithiumâ€œIon Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1800003.	7.8	191
30	Ultralow Feeding Gas Flow Guiding Growth of Large-Scale Horizontally Aligned Single-Walled Carbon Nanotube Arrays. <i>Nano Letters</i> , 2007, 7, 2073-2079.	4.5	189
31	Highly Branched VS ₄ Nanodendrites with 1D Atomicâ€œChain Structure as a Promising Cathode Material for Longâ€œCycling Magnesium Batteries. <i>Advanced Materials</i> , 2018, 30, e1802563.	11.1	187
32	Decoration, Migration, and Aggregation of Palladium Nanoparticles on Graphene Sheets. <i>Chemistry of Materials</i> , 2010, 22, 5695-5699.	3.2	186
33	Click Chemistry on Solution-Dispersed Graphene and Monolayer CVD Graphene. <i>Chemistry of Materials</i> , 2011, 23, 3362-3370.	3.2	169
34	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.	8.2	168
35	Allâ€œInorganic Halide Perovskites for Optoelectronics: Progress and Prospects. <i>Solar Rrl</i> , 2017, 1, 1700086.	3.1	167
36	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.	3.2	166

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37	Efficient photocatalytic nitrogen fixation under ambient conditions enabled by the heterojunctions of n-type Bi ₂ MoO ₆ and oxygen-vacancy-rich p-type BiOBr. <i>Nanoscale</i> , 2019, 11, 10439-10445.	2.8	160
38	Biomacromolecules enabled dendrite-free lithium metal battery and its origin revealed by cryo-electron microscopy. <i>Nature Communications</i> , 2020, 11, 488.	5.8	158
39	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. <i>Nature Communications</i> , 2013, 4, 1663.	5.8	155
40	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.	2.8	154
41	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.	10.2	139
42	Molecular Design of Fused-Ring Phenazine Derivatives for Long-Cycling Alkaline Redox Flow Batteries. <i>ACS Energy Letters</i> , 2020, 5, 411-417.	8.8	136
43	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.	10.2	131
44	Layered and scrolled nanocomposites with aligned semi-infinite graphene inclusions at the platelet limit. <i>Science</i> , 2016, 353, 364-367.	6.0	125
45	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.	6.6	123
46	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.	9.5	120
47	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.	7.8	119
48	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO ₂ Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <i>ACS Nano</i> , 2018, 12, 12492-12502.	7.3	116
49	Covalent Organic Frameworks: Emerging Organic Solid Materials for Energy and Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27821-27852.	4.0	116
50	How Catalysts Affect the Growth of Single-Walled Carbon Nanotubes on Substrates. <i>Advanced Materials</i> , 2010, 22, 1508-1515.	11.1	112
51	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. <i>Nano Energy</i> , 2016, 20, 305-314.	8.2	107
52	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.	8.8	104
53	An all-inorganic perovskite solar capacitor for efficient and stable spontaneous photocharging. <i>Nano Energy</i> , 2018, 52, 239-245.	8.2	100
54	Nanocapillarity and Nanoconfinement Effects of Pipet-like Bismuth@Carbon Nanotubes for Highly Efficient Electrocatalytic CO ₂ Reduction. <i>Nano Letters</i> , 2021, 21, 2650-2657.	4.5	95

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55	Shape-Controlled Synthesis of CdS Nanocrystals in Mixed Solvents. <i>Crystal Growth and Design</i> , 2005, 5, 1801-1806.	1.4	93
56	Mechanically Assisted Exfoliation and Functionalization of Thermally Converted Graphene Sheets. <i>Chemistry of Materials</i> , 2009, 21, 3045-3047.	3.2	92
57	All-polymer particulate slurry batteries. <i>Nature Communications</i> , 2019, 10, 2513.	5.8	91
58	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.	5.2	89
59	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.	5.2	85
60	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.	4.5	85
61	Graphene-Ni-MnO ₂ and Cu-MnO ₂ nanowire blends as highly active non-precious metal catalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , 2012, 48, 7931.	2.2	84
62	Ī-Conjugated polyimide-based organic cathodes with extremely-long cycling life for rechargeable magnesium batteries. <i>Energy Storage Materials</i> , 2020, 26, 494-502.	9.5	82
63	Extended Metal-Organic Frameworks on Diverse Supports as Electrode Nanomaterials for Electrochemical Energy Storage. <i>ACS Applied Nano Materials</i> , 2020, 3, 3964-3990.	2.4	80
64	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.	5.2	79
65	Recent advances in anode materials for potassium-ion batteries: A review. <i>Nano Research</i> , 2021, 14, 4442-4470.	5.8	76
66	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. <i>Nanoscale</i> , 2017, 9, 11841-11845.	2.8	75
67	Rational-Designed Principles for Electrochemical and Photoelectrochemical Upgrading of CO ₂ to Value-Added Chemicals. <i>Advanced Science</i> , 2022, 9, e2105204.	5.6	75
68	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. <i>Chemistry of Materials</i> , 2019, 31, 7565-7573.	3.2	73
69	Interfacial Reduction Nucleation of Noble Metal Nanodots on Redox-Active Metal-Organic Frameworks for High-Efficiency Electrocatalytic Conversion of Nitrate to Ammonia. <i>Nano Letters</i> , 2022, 22, 2529-2537.	4.5	72
70	Controllable Solid-Phase Fabrication of an Fe ₂ O ₃ /Fe ₅ C ₂ /Fe-N-C Electrolyte toward Optimizing the Oxygen Reduction Reaction in Zinc-Air Batteries. <i>Nano Letters</i> , 2022, 22, 4879-4887.	4.5	72
71	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.	9.5	69
72	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.	9.5	69

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73	Resistive Switching in Nanogap Systems on SiO ₂ Substrates. <i>Small</i> , 2009, 5, 2910-2915.	5.2	68
74	Nano-Engineered Spacing in Graphene Sheets for Hydrogen Storage. <i>Chemistry of Materials</i> , 2011, 23, 923-925.	3.2	68
75	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. <i>Science Advances</i> , 2016, 2, e1600209.	4.7	67
76	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.	5.8	64
77	Disorder Imposed Limits of Mono- and Bilayer Graphene Electronic Modification Using Covalent Chemistry. <i>Nano Letters</i> , 2013, 13, 809-817.	4.5	62
78	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.	7.2	62
79	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.	8.2	61
80	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.	4.0	60
81	A Review on Recent Advances for Boosting Initial Coulombic Efficiency of Silicon Anodic Lithium Ion batteries. <i>Small</i> , 2022, 18, e2102894.	5.2	60
82	Electrochemical Mg ²⁺ Displacement Driven Reversible Copper Extrusion/Intrusion Reactions for High-Rate Rechargeable Magnesium Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2009394.	7.8	59
83	Design of a wearable and shape-memory fibriform sensor for the detection of multimodal deformation. <i>Nanoscale</i> , 2018, 10, 118-123.	2.8	58
84	Two-Terminal Nonvolatile Memories Based on Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 4122-4126.	7.3	57
85	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , 2016, 8, 17911-17918.	2.8	57
86	Flexible devices: from materials, architectures to applications. <i>Journal of Semiconductors</i> , 2018, 39, 011010.	2.0	56
87	Co _x Fe _y N 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.	5.2	56
88	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> , 2022, 12, .	10.2	56
89	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. <i>Nano Energy</i> , 2017, 33, 229-237.	8.2	55
90	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.	2.8	55

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91	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.	7.8	54
92	Electronic and geometric structure engineering of bicontinuous porous Ag-Cu nanoarchitectures for realizing selectivity-tunable electrochemical CO ₂ reduction. <i>Nano Energy</i> , 2020, 73, 104796.	8.2	54
93	Understanding Surfactant/Graphene Interactions Using a Graphene Field Effect Transistor: Relating Molecular Structure to Hysteresis and Carrier Mobility. <i>Langmuir</i> , 2012, 28, 8579-8586.	1.6	53
94	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.	4.0	52
95	One-step fabrication of large-area ultrathin MoS ₂ nanofilms with high catalytic activity for photovoltaic devices. <i>Nanoscale</i> , 2016, 8, 16017-16025.	2.8	51
96	Controlled growth and photoconductive properties of hexagonal SnS ₂ nanoflakes with mesa-shaped atomic steps. <i>Nano Research</i> , 2017, 10, 1434-1447.	5.8	51
97	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.	5.2	51
98	Superstretchable, thermostable and ultrahigh-loading lithium-sulfur batteries based on nanostructural gel cathodes and gel electrolytes. <i>Nano Energy</i> , 2021, 80, 105510.	8.2	51
99	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.	7.8	51
100	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, 17620-17627.	6.6	50
101	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.	4.0	50
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, 7408-7415.	2.8	49
103	Near-Infrared-Responsive Photo-Driven Nitrogen Fixation Enabled by Oxygen Vacancies and Sulfur Doping in Black TiO ₂ S Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4975-4983.	4.0	48
104	Solution-Phase Synthesis of Heteroatom-Substituted Carbon Scaffolds for Hydrogen Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 15246-15251.	6.6	47
105	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.	4.0	47
106	Circular polarization dependent cyclotron resonance in large-area graphene in ultrahigh magnetic fields. <i>Physical Review B</i> , 2012, 85, .	1.1	46
107	Stabilizing lithium metal anode by molecular beam epitaxy grown uniform and ultrathin bismuth film. <i>Nano Energy</i> , 2020, 76, 105068.	8.2	46
108	High-Performance Lithium-Ion Capacitors Based on Porosity-Regulated Zirconium Metal-Organic Frameworks. <i>Small</i> , 2021, 17, e2005209.	5.2	46

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109	In situ Synthesis of Polymer-Modified Mesoporous Carbon CMK-3 Composites for CO ₂ Sequestration. ACS Applied Materials & Interfaces, 2011, 3, 4782-4786.	4.0	45
110	Ultrahigh rate capability and ultralong cycling stability of sodium-ion batteries enabled by wrinkled black titania nanosheets with abundant oxygen vacancies. Nano Energy, 2018, 53, 91-96.	8.2	44
111	Rh/Al Nanoantenna Photothermal Catalyst for Wide-Spectrum Solar-Driven CO ₂ Methanation with Nearly 100% Selectivity. Nano Letters, 2021, 21, 8824-8830.	4.5	43
112	Quasi-Phthalocyanine Conjugated Covalent Organic Frameworks with Nitrogen-Coordinated Transition Metal Centers for High-Efficiency Electrocatalytic Ammonia Synthesis. Nano Letters, 2022, 22, 372-379.	4.5	43
113	Direct Preparation and Patterning of Iron Oxide Nanoparticles via Microcontact Printing on Silicon Wafers for the Growth of Single-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 4109-4114.	3.2	42
114	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. Nanoscale, 2017, 9, 1972-1977.	2.8	42
115	N-alkyl-carboxylate-functionalized anthraquinone for long-cycling aqueous redox flow batteries. Energy Storage Materials, 2021, 36, 417-426.	9.5	42
116	Redox-Active Covalent Organic Frameworks with Nickel-Bis(dithiolene) Units as Guiding Layers for High-Performance Lithium Metal Batteries. Journal of the American Chemical Society, 2022, 144, 8267-8277.	6.6	42
117	van der Waals Epitaxial Growth and Interfacial Passivation of Two-Dimensional Single-Crystalline Few-Layer Gray Arsenic Nanoflakes. Chemistry of Materials, 2019, 31, 4524-4535.	3.2	41
118	Determination of complex optical constants and photovoltaic device design of all-inorganic CsPbBr ₃ perovskite thin films. Optics Express, 2020, 28, 15706.	1.7	40
119	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. Nano Research, 2018, 11, 6436-6446.	5.8	38
120	Crystalline Modulation Engineering of Ru Nanoclusters for Boosting Ammonia Electrosynthesis from Dinitrogen or Nitrate. ACS Applied Materials & Interfaces, 2022, 14, 17470-17478.	4.0	37
121	Batch-Scale Synthesis of Nanoparticle-Agminated Three-Dimensional Porous Cu@Cu ₂ O Microspheres for Highly Selective Electrocatalysis of Nitrate to Ammonia. Environmental Science & Technology, 2022, 56, 10299-10307.	4.6	37
122	Direct Growth of Single-Walled Carbon Nanotubes without Metallic Residues by Using Lead as a Catalyst. Chemistry of Materials, 2008, 20, 7521-7525.	3.2	36
123	Scalable Production of the Silicon-Tin Yin-Yang Hybrid Structure with Graphene Coating for High Performance Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 15388-15393.	4.0	36
124	2D layered black arsenic-phosphorus materials: Synthesis, properties, and device applications. Nano Research, 2022, 15, 3737-3752.	5.8	36
125	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. Journal of Materials Chemistry A, 2016, 4, 15041-15048.	5.2	35
126	Recent Advances in Emerging Non-Lithium Metal Sulfur Batteries: A Review. Advanced Energy Materials, 2021, 11, 2100770.	10.2	34

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127	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.	4.0	34
128	Chelation-assisted formation of multi-yolk-shell Co ₄ N@carbon nanoboxes for self-discharge-suppressed high-performance Li-SeS ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20302-20309.	5.2	29
129	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.	2.8	29
130	Single-Atom Metal Anchored Zr ₆ -Cluster-Porphyrin Framework Hollow Nanocapsules with Ultrahigh Active-Center Density for Electrocatalytic CO ₂ Reduction. <i>Nano Letters</i> , 2022, 22, 3340-3348.	4.5	29
131	Preferential Growth of Single-Walled Carbon Nanotubes on Silica Spheres by Chemical Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6963-6967.	1.2	28
132	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.	2.3	27
133	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.	2.8	27
134	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.	2.5	27
135	Photodriven Catalytic Hydrogenation of CO ₂ to CH ₄ with Nearly 100% Selectivity over Ag ₂₅ Clusters. <i>Nano Letters</i> , 2021, 21, 8693-8700.	4.5	27
136	2D Arsenene and Arsenic Materials: Fundamental Properties, Preparation, and Applications. <i>Small</i> , 2022, 18, e2104556.	5.2	27
137	A high-performance oxygen evolution electrode of nanoporous Ni-based solid solution by simulating natural meteorites. <i>Chemical Engineering Journal</i> , 2021, 410, 128340.	6.6	26
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