Zhong Jin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1849981/publications.pdf

Version: 2024-02-01

192 papers	18,852 citations	13087 68 h-index	12585 132 g-index
199 all docs	199 docs citations	199 times ranked	24053 citing authors

#	Article	IF	Citations
1	SiOx/C-Ag nanosheets derived from Zintl phase CaSi2 via a facile redox reaction for high performance lithium storage. Nano Research, 2022, 15, 395-400.	5.8	23
2	Rapid CO2 exfoliation of Zintl phase CaSi2-derived ultrathin free-standing Si/SiOx/C nanosheets for high-performance lithium storage. Science China Materials, 2022, 65, 51-58.	3.5	18
3	A Review on Recent Advances for Boosting Initial Coulombic Efficiency of Silicon Anodic Lithium Ion batteries. Small, 2022, 18, e2102894.	5.2	60
4	Initial-anode-free aluminum ion batteries: In-depth monitoring and mechanism studies. Energy Storage Materials, 2022, 44, 461-468.	9.5	22
5	2D Arsenene and Arsenic Materials: Fundamental Properties, Preparation, and Applications. Small, 2022, 18, e2104556.	5.2	27
6	Halogen-enabled rechargeable batteries: Current advances and future perspectives. Energy Storage Materials, 2022, 45, 332-369.	9.5	20
7	Rationalâ€Designed Principles for Electrochemical and Photoelectrochemical Upgrading of CO₂ to Valueâ€Added Chemicals. Advanced Science, 2022, 9, e2105204.	5.6	75
8	Hypersaline Aqueous Lithium-Ion Slurry Flow Batteries. ACS Energy Letters, 2022, 7, 862-870.	8.8	14
9	Bicontinuous Nanoporous Nitrogen/Carbon-Codoped FeCoNiMg Alloy as a High-Performance Electrode for the Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2022, 14, 784-793.	4.0	18
10	Alkaline soluble 1,3,5,7-tetrahydroxyanthraquinone with high reversibility as anolyte for aqueous redox flow battery. Journal of Power Sources, 2022, 524, 231001.	4.0	20
11	Reversible Redox Chemistry in Pyrrolidiniumâ€Based TEMPO Radical and Extended Viologen for Highâ€Voltage and Longâ€Life Aqueous Redox Flow Batteries. Advanced Energy Materials, 2022, 12, .	10.2	56
12	2D arsenenes. Journal of Semiconductors, 2022, 43, 030201.	2.0	2
13	Interfacial Reduction Nucleation of Noble Metal Nanodots on Redox-Active Metalâ€"Organic Frameworks for High-Efficiency Electrocatalytic Conversion of Nitrate to Ammonia. Nano Letters, 2022, 22, 2529-2537.	4.5	72
14	Rapid construction of highly-dispersed cobalt nanoclusters embedded in hollow cubic carbon walls as an effective polysulfide promoter in high-energy lithium-sulfur batteries. Nano Research, 2022, 15, 5105-5113.	5.8	12
15	Ag24Au cluster decorated mesoporous Co3O4 for highly selective and efficient photothermal CO2 hydrogenation. Nano Research, 2022, 15, 4965-4972.	5.8	15
16	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
17	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
18	2D layered black arsenic-phosphorus materials: Synthesis, properties, and device applications. Nano Research, 2022, 15, 3737-3752.	5.8	36

#	Article	IF	Citations
19	Single-Atom Metal Anchored Zr₆-Cluster-Porphyrin Framework Hollow Nanocapsules with Ultrahigh Active-Center Density for Electrocatalytic CO₂ Reduction. Nano Letters, 2022, 22, 3340-3348.	4.5	29
20	Redox-Active Covalent Organic Frameworks with Nickelâ€"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
21	Brush-electroplated rGO@MnO2 composite supported on carbon cloth for flexible high-performance supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2022, 33, 13326-13338.	1.1	1
22	Controllable Solid-Phase Fabrication of an Fe₂O₃/Fe₅C₂/Feâ€"Nâ€"C Electrocatalyst toward Optimizing the Oxygen Reduction Reaction in Zincâ€"Air Batteries. Nano Letters, 2022, 22, 4879-4887.	4.5	72
23	Batch-Scale Synthesis of Nanoparticle-Agminated Three-Dimensional Porous Cu@Cu₂O Microspheres for Highly Selective Electrocatalysis of Nitrate to Ammonia. Environmental Science & Technology, 2022, 56, 10299-10307.	4.6	37
24	Superstretchable, thermostable and ultrahigh-loading lithiumâ€"sulfur batteries based on nanostructural gel cathodes and gel electrolytes. Nano Energy, 2021, 80, 105510.	8.2	51
25	Highâ€Performance Lithiumâ€Ion Capacitors Based on Porosityâ€Regulated Zirconium Metalâ"Organic Frameworks. Small, 2021, 17, e2005209.	5.2	46
26	Electrochemical Mg²⁺ Displacement Driven Reversible Copper Extrusion/Intrusion Reactions for Highâ€Rate Rechargeable Magnesium Batteries. Advanced Functional Materials, 2021, 31, 2009394.	7.8	59
27	Near-Infrared-Responsive Photo-Driven Nitrogen Fixation Enabled by Oxygen Vacancies and Sulfur Doping in Black TiO_{2â€"x}S_y Nanoplatelets. ACS Applied Materials & Interfaces, 2021, 13, 4975-4983.	4.0	48
28	Nanocapillarity and Nanoconfinement Effects of Pipet-like Bismuth@Carbon Nanotubes for Highly Efficient Electrocatalytic CO₂ Reduction. Nano Letters, 2021, 21, 2650-2657.	4.5	95
29	A high-performance oxygen evolution electrode of nanoporous Ni-based solid solution by simulating natural meteorites. Chemical Engineering Journal, 2021, 410, 128340.	6.6	26
30	N-alkyl-carboxylate-functionalized anthraquinone for long-cycling aqueous redox flow batteries. Energy Storage Materials, 2021, 36, 417-426.	9.5	42
31	Recent advances in anode materials for potassium-ion batteries: A review. Nano Research, 2021, 14, 4442-4470.	5.8	76
32	Recent Advances in Emerging Nonâ€Lithium Metalâ€"Sulfur Batteries: A Review. Advanced Energy Materials, 2021, 11, 2100770.	10.2	34
33	Pseudohalide substitution and potassium doping in FA0.98K0.02Pb(SCN)2I for high-stability hole-conductor-free perovskite solar cells. Journal of Power Sources, 2021, 494, 229781.	4.0	19
34	Regulating the Alloying Degree and Electronic Structure of Ptâ€"Au Nanoparticles for High-Efficiency Direct C₂₊ Alcohol Fuel Cells. Chemistry of Materials, 2021, 33, 3767-3778.	3.2	22
35	Templateâ€Sacrificed Hot Fusion Construction and Nanoseed Modification of 3D Porous Copper Nanoscaffold Host for Stableâ€Cycling Lithium Metal Anodes. Advanced Functional Materials, 2021, 31, 2102735.	7.8	51
36	Electric-Field-Induced Ion Migration Behavior in Methylammonium Lead Iodide Perovskite. Journal of Physical Chemistry Letters, 2021, 12, 7106-7112.	2.1	10

#	Article	IF	Citations
37	Spongy-like N, S-codoped ultrathin layered carbon assembly for realizing high performance sodium-ion batteries. FlatChem, 2021, 28, 100258.	2.8	6
38	The Dual Role of Bridging Phenylene in an Extended Bipyridine System for High-Voltage and Stable Two-Electron Storage in Redox Flow Batteries. ACS Applied Materials & Interfaces, 2021, 13, 44174-44183.	4.0	34
39	Wet Chemistry Vitrification and Metalâ€toâ€Semiconductor Transition of 2D Gray Arsenene Nanoflakes. Advanced Functional Materials, 2021, 31, 2106529.	7.8	11
40	Rational design of carbon nanotube architectures for lithiumâ€“chalcogen batteries: Advances and perspectives. Energy Storage Materials, 2021, 42, 723-752.	9.5	20
41	Fluorinated quinone derived organosulfur copolymer cathodes for long-cycling, thermostable and flexible lithiumâ€“sulfur batteries. Chemical Engineering Journal, 2021, 424, 130316.	6.6	21
42	Rh/Al Nanoantenna Photothermal Catalyst for Wide-Spectrum Solar-Driven CO₂ Methanation with Nearly 100% Selectivity. Nano Letters, 2021, 21, 8824-8830.	4.5	43
43	Photodriven Catalytic Hydrogenation of CO₂ to CH₄ with Nearly 100% Selectivity over Ag₂₅ Clusters. Nano Letters, 2021, 21, 8693-8700.	4.5	27
44	Clusterâ€Bridgingâ€Coordinated Bimetallic Metalâˆ’Organic Framework as Highâ€Performance Anode Material for Lithiumâ€Ion Storage. Small Structures, 2021, 2, 2100122.	6.9	25
45	2D black TiO2-x nanoplate-decorated Ti3C2 MXene hybrids for ultrafast and elevated stable lithium storage. FlatChem, 2020, 20, 100152.	2.8	29
46	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. Angewandte Chemie - International Edition, 2020, 59, 5151-5158.	7.2	62
47	Molecular Design of Fused-Ring Phenazine Derivatives for Long-Cycling Alkaline Redox Flow Batteries. ACS Energy Letters, 2020, 5, 411-417.	8.8	136
48	Ï€-Conjugated polyimide-based organic cathodes with extremely-long cycling life for rechargeable magnesium batteries. Energy Storage Materials, 2020, 26, 494-502.	9.5	82
49	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. Angewandte Chemie, 2020, 132, 5189-5196.	1.6	0
50	Controllable synthesis of nitrogen-doped carbon nanobubbles to realize high-performance lithium and sodium storage. Dalton Transactions, 2020, 49, 15712-15717.	1.6	6
51	A carbon-coated shuttle-like Fe₂O₃/Fe_{1âˆ’x}S heterostructure derived from metalâ€“organic frameworks with high pseudocapacitance for ultrafast lithium storage. Nanoscale Advances, 2020, 2, 5201-5208.	2.2	9
52	Inhibition of Phase Segregation in Cesium Lead Mixed-Halide Perovskites by B-Site Doping. IScience, 2020, 23, 101415.	1.9	18
53	Energetic metal-organic frameworks deflagration enabled ultrafast low-temperature synthesis of ultra-light magnetic nanoparticles decorated high-lossy materials. Carbon, 2020, 165, 286-295.	5.4	8
54	Controlled growth and ion intercalation mechanism of monocrystalline niobium pentoxide nanotubes for advanced rechargeable aluminum-ion batteries. Nanoscale, 2020, 12, 12531-12540.	2.8	17

#	Article	IF	Citations
55	Reasonable construction of Fe3O4/Ni@N-RGO nanoflowers as highly efficient counter electrodes for dye-sensitized solar cells. Sustainable Energy and Fuels, 2020, 4, 3604-3612.	2.5	6
56	Covalent Organic Frameworks: Emerging Organic Solid Materials for Energy and Electrochemical Applications. ACS Applied Materials & Interfaces, 2020, 12, 27821-27852.	4.0	116
57	Controllable growth and flexible optoelectronic devices of regularly-assembled Bi2S3 semiconductor nanowire bifurcated junctions and crosslinked networks. Nano Research, 2020, 13, 2226-2232.	5.8	16
58	Improving the capacity and cycling-stability of Lithiumâ€“sulfur batteries using self-healing binders containing dynamic disulfide bonds. Sustainable Energy and Fuels, 2020, 4, 2760-2767.	2.5	27
59	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO2 to high-value renewable fuels. Chemical Engineering Journal, 2020, 402, 126184.	6.6	123
60	Promoting Z-to-E Thermal Isomerization of Azobenzene Derivatives by Noncovalent Interaction with Phosphorene: Theoretical Prediction and Experimental Study. Journal of Physical Chemistry C, 2020, 124, 15961-15968.	1.5	3
61	Stabilizing lithium metal anode by molecular beam epitaxy grown uniform and ultrathin bismuth film. Nano Energy, 2020, 76, 105068.	8.2	46
62	Biomacromolecules enabled dendrite-free lithium metal battery and its origin revealed by cryo-electron microscopy. Nature Communications, 2020, 11, 488.	5.8	158
63	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H2 and O2. Catalysts, 2020, 10, 442.	1.6	18
64	Electronic and geometric structure engineering of bicontinuous porous Agâ€“Cu nanoarchitectures for realizing selectivity-tunable electrochemical CO2 reduction. Nano Energy, 2020, 73, 104796.	8.2	54
65	Extended Metalâ€“Organic Frameworks on Diverse Supports as Electrode Nanomaterials for Electrochemical Energy Storage. ACS Applied Nano Materials, 2020, 3, 3964-3990.	2.4	80
66	Electron migration optimization through nanostructural control of hierarchical Fe3O4 based counter electrodes for high-performance dye-sensitized solar cells. Journal of Electroanalytical Chemistry, 2020, 869, 114214.	1.9	18
67	High gravity-assisted green synthesis of ZnO nanoparticles via Allium ursinum: Conjoining nanochemistry to neuroscience. Nano Express, 2020, 1, 020025.	1.2	25
68	Determination of complex optical constants and photovoltaic device design of all-inorganic CsPbBr₃ perovskite thin films. Optics Express, 2020, 28, 15706.	1.7	40
69	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. Chemistry of Materials, 2019, 31, 7565-7573.	3.2	73
70	Chelation-assisted formation of multi-yolkâ€“shell Co₄N@carbon nanoboxes for self-discharge-suppressed high-performance Liâ€“SeS₂ batteries. Journal of Materials Chemistry A, 2019, 7, 20302-20309.	5.2	29
71	Different Dimensional Nanostructured Silicon Materials: From Synthesis Methodology to Application in Highâ€Energy Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1900962.	1.8	24
72	Intermetallic SnSb nanodots embedded in carbon nanotubes reinforced nanofabric electrodes with high reversibility and rate capability for flexible Li-ion batteries. Nanoscale, 2019, 11, 13282-13288.	2.8	27

#	Article	IF	Citations
73	Hybrid Mg/Li-ion batteries enabled by Mg2+/Li+ co-intercalation in VS4 nanodendrites. Energy Storage Materials, 2019, 23, 741-748.	9.5	69
74	All-polymer particulate slurry batteries. Nature Communications, 2019, 10, 2513.	5.8	91
75	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
76	High-performance Li-ion capacitor based on black-TiO2-x/graphene aerogel anode and biomass-derived microporous carbon cathode. Nano Research, 2019, 12, 1713-1719.	5.8	64
77	Tuning the liquid-phase exfoliation of arsenic nanosheets by interaction with various solvents. Physical Chemistry Chemical Physics, 2019, 21, 12087-12090.	1.3	25
78	Oneâ€Step Synthesis of 2â€Ethylhexylamine Pillared Vanadium Disulfide Nanoflowers with Ultralarge Interlayer Spacing for Highâ€Performance Magnesium Storage. Advanced Energy Materials, 2019, 9, 1900145.	10.2	131
79	Co_xFe_yN nanoparticles decorated on graphene sheets as high-performance electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 12489-12497.	5.2	56
80	Efficient photocatalytic nitrogen fixation under ambient conditions enabled by the heterojunctions of n-type Bi₂MoO₆ and oxygen-vacancy-rich p-type BiOBr. Nanoscale, 2019, 11, 10439-10445.	2.8	160
81	Surface plasmon resonance enhanced direct Z-scheme TiO₂/ZnTe/Au nanocorncob heterojunctions for efficient photocatalytic overall water splitting. Nanoscale, 2019, 11, 9053-9060.	2.8	55
82	The dealloyingâ€"lithiation/delithiationâ€"realloying mechanism of a breithauptite (NiSb) nanocrystal embedded nanofabric anode for flexible Li-ion batteries. Nanoscale, 2019, 11, 8803-8811.	2.8	24
83	eg occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. Nature Communications, 2019, 10, 704.	5.8	199
84	Review on photocatalytic and electrocatalytic artificial nitrogen fixation for ammonia synthesis at mild conditions: Advances, challenges and perspectives. Nano Research, 2019, 12, 1229-1249.	5.8	301
85	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithiumâ€"Sulfur Batteries. ACS Nano, 2018, 12, 4868-4876.	7.3	222
86	Nanoporous and lyophilic battery separator from regenerated eggshell membrane with effective suppression of dendritic lithium growth. Energy Storage Materials, 2018, 14, 258-266.	9.5	69
87	Ultrafast one-step synthesis of N and Ti3+ codoped TiO2 nanosheets via energetic material deflagration. Nano Research, 2018, 11, 4735-4743.	5.8	18
88	High energy density hybrid lithium-ion capacitor enabled by Co3ZnC@N-doped carbon nanopolyhedra anode and microporous carbon cathode. Energy Storage Materials, 2018, 14, 246-252.	9.5	120
89	Correction to Highly Efficient Retention of Polysulfides in â€œSea-Urchinâ€•Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithiumâ€"Sulfur Batteries. Nano Letters, 2018, 18, 1553-1553.	4.5	5
90	Interface Engineering of Anchored Ultrathin TiO₂/MoS₂ Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 6084-6089.	4.0	47

#	Article	IF	Citations
91	Flexible devices: from materials, architectures to applications. Journal of Semiconductors, 2018, 39, 011010.	2.0	56
92	Walnutâ€Like Multicoreâ€“Shell MnO Encapsulated Nitrogenâ€Rich Carbon Nanocapsules as Anode Material for Longâ€Cycling and Softâ€Packed Lithiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1800003.	7.8	191
93	Progress and Perspective of Electrocatalytic CO₂ Reduction for Renewable Carbonaceous Fuels and Chemicals. Advanced Science, 2018, 5, 1700275.	5.6	638
94	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. Journal of Materials Chemistry A, 2018, 6, 2047-2052.	5.2	85
95	Nitrogen-doped graphene: Synthesis, characterizations and energy applications. Journal of Energy Chemistry, 2018, 27, 146-160.	7.1	254
96	Design of a wearable and shape-memory fibriform sensor for the detection of multimodal deformation. Nanoscale, 2018, 10, 118-123.	2.8	58
97	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO_{2â€“x} Nanoflakes for High-Performance Rechargeable Magnesium Batteries. ACS Nano, 2018, 12, 12492-12502.	7.3	116
98	Heterointerface engineering of trilayer-shelled ultrathin MoS₂/MoP/N-doped carbon hollow nanobubbles for efficient hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 24783-24792.	5.2	79
99	Nitrogen-Doped Carbon Nanotube Forests Planted on Cobalt Nanoflowers as Polysulfide Mediator for Ultralow Self-Discharge and High Areal-Capacity Lithiumâ€“Sulfur Batteries. Nano Letters, 2018, 18, 7949-7954.	4.5	85
100	Liquid-phase exfoliated ultrathin Bi nanosheets: Uncovering the origins of enhanced electrocatalytic CO2 reduction on two-dimensional metal nanostructure. Nano Energy, 2018, 53, 808-816.	8.2	247
101	Ionic liquid-immobilized polymer gel electrolyte with self-healing capability, high ionic conductivity and heat resistance for dendrite-free lithium metal batteries. Nano Energy, 2018, 54, 17-25.	8.2	168
102	Oxygen Vacancy Engineering Promoted Photocatalytic Ammonia Synthesis on Ultrathin Two-Dimensional Bismuth Oxybromide Nanosheets. Nano Letters, 2018, 18, 7372-7377.	4.5	308
103	Cobalt-Iron Oxide Nanoarrays Supported on Carbon Fiber Paper with High Stability for Electrochemical Oxygen Evolution at Large Current Densities. ACS Applied Materials & Interfaces, 2018, 10, 39809-39818.	4.0	60
104	Highly efficient overall water splitting driven by all-inorganic perovskite solar cells and promoted by bifunctional bimetallic phosphide nanowire arrays. Journal of Materials Chemistry A, 2018, 6, 20076-20082.	5.2	51
105	High-Performance Alkaline Organic Redox Flow Batteries Based on 2-Hydroxy-3-carboxy-1,4-naphthoquinone. ACS Energy Letters, 2018, 3, 2404-2409.	8.8	104
106	Highly Branched VS₄ Nanodendrites with 1D Atomicâ€Chain Structure as a Promising Cathode Material for Longâ€Cycling Magnesium Batteries. Advanced Materials, 2018, 30, e1802563.	11.1	187
107	An all-inorganic perovskite solar capacitor for efficient and stable spontaneous photocharging. Nano Energy, 2018, 52, 239-245.	8.2	100
108	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

#	Article	IF	Citations
109	Nitrogen-Doped Carbon Nanomaterials as Highly Active and Specific Peroxidase Mimics. Chemistry of Materials, 2018, 30, 6431-6439.	3.2	236
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	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. Nano Energy, 2017, 33, 229-237.	8.2	55
112	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. Nanoscale, 2017, 9, 1972-1977.	2.8	42
113	Cucurbit[8]uril-Based Water-Soluble Supramolecular Dendronized Polymer: Evidence from Single Polymer Chain Morphology and Force Spectroscopy. ACS Macro Letters, 2017, 6, 139-143.	2.3	27
114	Scalable Production of the Siliconâ€"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
115	Metallic and polar Co 9 S 8 inlaid carbon hollow nanopolyhedra as efficient polysulfide mediator for lithiumâˆ'sulfur batteries. Nano Energy, 2017, 38, 239-248.	8.2	314
116	The effects of Al substitution and partial dissolution on ultrathin NiFeAl trinary layered double hydroxide nanosheets for oxygen evolution reaction in alkaline solution. Nano Energy, 2017, 35, 350-357.	8.2	237
117	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Fewâ€Walled Carbon Nanotubes in Flexible Polymer Composites. Advanced Functional Materials, 2017, 27, 1606604.	7.8	119
118	Controlled growth and photoconductive properties of hexagonal SnS2 nanoflakes with mesa-shaped atomic steps. Nano Research, 2017, 10, 1434-1447.	5.8	51
119	Highly Efficient Retention of Polysulfides in â€œSea Urchinâ€•Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithiumâ€"Sulfur Batteries. Nano Letters, 2017, 17, 437-444.	4.5	223
120	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. Nanoscale, 2017, 9, 1237-1243.	2.8	154
121	Allâ€Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects (Solar RRL 10âˆ•2017). Solar Rrl, 2017, 1, 1770138.	3.1	11
122	Nearâ€Infraredâ€Emissive Amphiphilic BODIPY Assemblies Manipulated by Chargeâ€Transfer Interaction: From Nanofibers to Nanorods and Nanodisks. Chemistry - an Asian Journal, 2017, 12, 3088-3095.	1.7	18
123	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow Co₃S₄ Nanoboxes for High-Rate and Heat-Resistant Lithiumâ€"Sulfur Batteries. Journal of the American Chemical Society, 2017, 139, 12710-12715.	6.6	456
124	Allâ€Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects. Solar Rrl, 2017, 1, 1700086.	3.1	167
125	CsPb_{0.9}Sn_{0.1}IBr₂ Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. Journal of the American Chemical Society, 2017, 139, 14009-14012.	6.6	447
126	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. Nanoscale, 2017, 9, 11841-11845.	2.8	75

#	Article	IF	Citations
127	Well-designed Te/SnS2/Ag artificial nanoleaves for enabling and enhancing visible-light driven overall splitting of pure water. Nano Energy, 2017, 39, 539-545.	8.2	61
128	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithiumâ€"Sulfur Batteries. Nano Letters, 2017, 17, 7839-7846.	4.5	206
129	High-Performance Liâ€"Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. ACS Applied Materials & Interfaces, 2017, 9, 25232-25238.	4.0	50
130	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithiumâ€"Sulfur Batteries. ACS Nano, 2017, 11, 7274-7283.	7.3	213
131	MoS₂â€Based Allâ€Purpose Fibrous Electrode and Selfâ€Powering Energy Fiber for Efficient Energy Harvesting and Storage. Advanced Energy Materials, 2017, 7, 1601208.	10.2	139
132	Emerging non-lithium ion batteries. Energy Storage Materials, 2016, 4, 103-129.	9.5	252
133	Self-assembled ultrathin NiCo2S4 nanoflakes grown on Ni foam as high-performance flexible electrodes for hydrogen evolution reaction in alkaline solution. Nano Energy, 2016, 24, 139-147.	8.2	282
134	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
135	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. ACS Applied Materials & Interfaces, 2016, 8, 26834-26841.	4.0	52
136	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. Nanoscale, 2016, 8, 17911-17918.	2.8	57
137	One-step fabrication of large-area ultrathin MoS₂nanofilms with high catalytic activity for photovoltaic devices. Nanoscale, 2016, 8, 16017-16025.	2.8	51
138	All-Inorganic Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 15829-15832.	6.6	899
139	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. Science Advances, 2016, 2, e1600209.	4.7	67
140	In Situ Thermal Synthesis of Inlaid Ultrathin MoS₂/Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. Chemistry of Materials, 2016, 28, 5733-5742.	3.2	166
141	Layered and scrolled nanocomposites with aligned semi-infinite graphene inclusions at the platelet limit. Science, 2016, 353, 364-367.	6.0	125
142	Li₃V₂(PO₄)₃encapsulated flexible free-standing nanofabric cathodes for fast charging and long life-cycle lithium-ion batteries. Nanoscale, 2016, 8, 7408-7415.	2.8	49
143	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. Nano Energy, 2016, 20, 305-314.	8.2	107
144	Hydrophilic Hierarchical Nitrogenâ€Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. Advanced Materials, 2015, 27, 3541-3545.	11.1	680

#	Article	IF	Citations
145	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. Journal of Materials Chemistry A, 2015, 3, 9510-9516.	5.2	89
146	Nanolithography Based on Metalized DNA Templates for Graphene Patterning. Current Protocols in Chemical Biology, 2014, 6, 53-64.	1.7	1
147	Tuning Onâ€“Off Current Ratio and Field-Effect Mobility in a MoS₂â€“Graphene Heterostructure via Schottky Barrier Modulation. ACS Nano, 2014, 8, 5790-5798.	7.3	240
148	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. Nature Communications, 2013, 4, 1663.	5.8	155
149	Charge Transfer at Junctions of a Single Layer of Graphene and a Metallic Single Walled Carbon Nanotube. Small, 2013, 9, 1954-1963.	5.2	24
150	Disorder Imposed Limits of Mono- and Bilayer Graphene Electronic Modification Using Covalent Chemistry. Nano Letters, 2013, 13, 809-817.	4.5	62
151	A Structureâ€“Function Relationship for the Optical Modulation of Phenyl Boronic Acid-Grafted, Polyethylene Glycol-Wrapped Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2012, 134, 17620-17627.	6.6	50
152	Circular polarization dependent cyclotron resonance in large-area graphene in ultrahigh magnetic fields. Physical Review B, 2012, 85, .	1.1	46
153	Pointwise Plucking of Suspended Carbon Nanotubes. Nano Letters, 2012, 12, 3663-3667.	4.5	5
154	Understanding and controlling the substrate effect on graphene electron-transfer chemistry via reactivity imprint lithography. Nature Chemistry, 2012, 4, 724-732.	6.6	463
155	Breakdown in the Wetting Transparency of Graphene. Physical Review Letters, 2012, 109, 176101.	2.9	313
156	Terahertz and Infrared Spectroscopy of Gated Large-Area Graphene. Nano Letters, 2012, 12, 3711-3715.	4.5	235
157	Understanding Surfactant/Graphene Interactions Using a Graphene Field Effect Transistor: Relating Molecular Structure to Hysteresis and Carrier Mobility. Langmuir, 2012, 28, 8579-8586.	1.6	53
158	Grapheneâ€“Niâ€“Î±-MnO2 and â€“Cuâ€“Î±-MnO2 nanowire blends as highly active non-precious metal catalysts for the oxygen reduction reaction. Chemical Communications, 2012, 48, 7931.	2.2	84
159	Terahertz and infrared conductivity of large-area graphene. , 2011, , .		0
160	Cyclotron resonance in graphene at ultrahigh magnetic fields. , 2011, , .		0
161	Large-Scale Growth and Characterizations of Nitrogen-Doped Monolayer Graphene Sheets. ACS Nano, 2011, 5, 4112-4117.	7.3	590
162	In situ Synthesis of Polymer-Modified Mesoporous Carbon CMK-3 Composites for CO₂ Sequestration. ACS Applied Materials & Interfaces, 2011, 3, 4782-4786.	4.0	45

#	Article	IF	Citations
163	Rational Design of Hybrid Graphene Films for High-Performance Transparent Electrodes. ACS Nano, 2011, 5, 6472-6479.	7.3	290
164	Click Chemistry on Solution-Dispersed Graphene and Monolayer CVD Graphene. Chemistry of Materials, 2011, 23, 3362-3370.	3.2	169
165	Nano-Engineered Spacing in Graphene Sheets for Hydrogen Storage. Chemistry of Materials, 2011, 23, 923-925.	3.2	68
166	Bi- and trilayer graphene solutions. Nature Nanotechnology, 2011, 6, 439-445.	15.6	337
167	Nitrogenâ€Doped Singleâ€Walled Carbon Nanotubes Grown on Substrates: Evidence for Framework Doping and Their Enhanced Properties. Advanced Functional Materials, 2011, 21, 986-992.	7.8	54
168	Preparation and properties of CdS/Au composite nanorods and hollow Au tubes. Science Bulletin, 2010, 55, 921-926.	1.7	15
169	How Catalysts Affect the Growth of Singleâ€Walled Carbon Nanotubes on Substrates. Advanced Materials, 2010, 22, 1508-1515.	11.1	112
170	Ultrahigh secondary electron emission of carbon nanotubes. Applied Physics Letters, 2010, 96, .	1.5	22
171	Carbon nanotube FETs decorated by gold nanoparticles: Electrical properties and mechanism. , 2010, , .		0
172	Solution-Phase Synthesis of Heteroatom-Substituted Carbon Scaffolds for Hydrogen Storage. Journal of the American Chemical Society, 2010, 132, 15246-15251.	6.6	47
173	Decoration, Migration, and Aggregation of Palladium Nanoparticles on Graphene Sheets. Chemistry of Materials, 2010, 22, 5695-5699.	3.2	186
174	Resistive Switching in Nanogap Systems on SiO₂ Substrates. Small, 2009, 5, 2910-2915.	5.2	68
175	Fabrication of Ultralong and Electrically Uniform Single-Walled Carbon Nanotubes on Clean Substrates. Nano Letters, 2009, 9, 3137-3141.	4.5	516
176	Photoluminescence spectral imaging of ultralong single-walled carbon nanotubes: Micromanipulation-induced strain, rupture, and determination of handedness. Physical Review B, 2009, 80, .	1.1	12
177	Abnormal Raman Intensity of Single-Walled Carbon Nanotubes Grown on Silica Spheres. Journal of Physical Chemistry C, 2009, 113, 5075-5080.	1.5	2
178	Assembling Structure of Single-Walled Carbon Nanotube Thin Bundles. Journal of Physical Chemistry C, 2009, 113, 8132-8135.	1.5	11
179	Mechanically Assisted Exfoliation and Functionalization of Thermally Converted Graphene Sheets. Chemistry of Materials, 2009, 21, 3045-3047.	3.2	92
180	Two-Terminal Nonvolatile Memories Based on Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 4122-4126.	7.3	57

#	Article	IF	Citations
181	Inorganic hierarchical nanostructures induced by concentration difference and gradient. Nano Research, 2008, 1, 213-220.	5.8	21
182	Site-Specific Deposition of Gold Nanoparticles on SWNTs. Journal of Physical Chemistry C, 2008, 112, 13437-13441.	1.5	17
183	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
184	Seed-Mediated Growth of ZnO Nanorods on Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2008, 8, 4441-4446.	0.9	8
185	Ultralow Feeding Gas Flow Guiding Growth of Large-Scale Horizontally Aligned Single-Walled Carbon Nanotube Arrays. Nano Letters, 2007, 7, 2073-2079.	4.5	189
186	Copper Catalyzing Growth of Single-Walled Carbon Nanotubes on Substrates. Nano Letters, 2006, 6, 2987-2990.	4.5	350
187	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
188	Direct growth of carbon nanotube junctions by a two-step chemical vapor deposition. Chemical Physics Letters, 2006, 432, 177-183.	1.2	12
189	The preparation of Mg3Si2O5(OH)4 nanotubes under solvothermal conditions. Journal of Porous Materials, 2006, 13, 275-279.	1.3	11
190	Shape-Controlled Synthesis of CdS Nanocrystals in Mixed Solvents. Crystal Growth and Design, 2005, 5, 1801-1806.	1.4	93
191	Preferential Growth of Single-Walled Carbon Nanotubes on Silica Spheres by Chemical Vapor Deposition. Journal of Physical Chemistry B, 2005, 109, 6963-6967.	1.2	28
192	Controlled radical double ring-opening polymerization of 2-methylene-1,4,6-trioxaspiro[4,4]nonane. Polymer International, 2000, 49, 1496-1499.	1.6	6