Yang Zhao

List of Publications by Year
in descending order

248 papers	21,693 citations	7096 78 h-index	11052 137 g-index
251 all docs	251 docs citations	251 times ranked	19389 citing authors

#	Article	IF	Citations
1	Injectable Fiber Electronics for Tumor Treatment. Advanced Fiber Materials, 2022, 4, 246-255.	16.1	21
2	A self-healing zinc ion battery under -20 Â°C. Energy Storage Materials, 2022, 44, 517-526.	18.0	53
3	Graphene Materials for Miniaturized Energy Harvest and Storage Devices. Small Structures, 2022, 3, .	12.0	23
4	Highâ€Efficiency and Stable Liâ^'CO₂ Battery Enabled by Carbon Nanotube/Carbon Nitride Heterostructured Photocathode. Angewandte Chemie - International Edition, 2022, 61, .	13.8	51
5	Graphene Materials for Miniaturized Energy Harvest and Storage Devices. Small Structures, 2022, 3, .	12.0	3
6	In Situ Fabrication of Lead-Free Cs₃Cu₂I₅ Nanostructures Embedded in Poly(Vinylidene Fluoride) Electrospun Fibers for Polarized Emission. ACS Applied Nano Materials, 2022, 5, 508-516.	5.0	14
7	Antiperovskite Electrolytes for Solid-State Batteries. Chemical Reviews, 2022, 122, 3763-3819.	47.7	96
8	Ultrafast Shaped Laser Induced Synthesis of MXene Quantum Dots/Graphene for Transparent Supercapacitors. Advanced Materials, 2022, 34, e2110013.	21.0	75
9	A Flexible Aqueous Zincâ€"Iodine Microbattery with Unprecedented Energy Density. Advanced Materials, 2022, 34, e2109450.	21.0	49
10	Boosting Cycling Stability and Rate Capability of Liâ€"CO₂Batteries via Synergistic Photoelectric Effect and Plasmonic Interaction. Angewandte Chemie - International Edition, 2022, 61, .	13.8	32
11	Recent advances in highly integrated energy conversion and storage system. SusMat, 2022, 2, 142-160.	14.9	44
12	An Electroluminodynamic Flexible Device for Highly Efficient Eradication of Drugâ€Resistant Bacteria. Advanced Materials, 2022, 34, e2200334.	21.0	25
13	Boosting Cycling Stability and Rate Capability of Liâ€"CO ₂ Batteries via Synergistic Photoelectric Effect and Plasmonic Interaction. Angewandte Chemie, 2022, 134, .	2.0	4
14	Size-Dependent Oxidation-Induced Phase Engineering for MOFs Derivatives Via Spatial Confinement Strategy Toward Enhanced Microwave Absorption. Nano-Micro Letters, 2022, 14, 102.	27.0	156
15	Bottom-up scalable temporally-shaped femtosecond laser deposition of hierarchical porous carbon for ultrahigh-rate micro-supercapacitor. Science China Materials, 2022, 65, 2412-2420.	6.3	11
16	Pure Aqueous Planar Microsupercapacitors with Ultrahigh Energy Density under Wide Temperature Ranges. Advanced Functional Materials, 2022, 32, .	14.9	17
17	Fixture-free omnidirectional prestretching fabrication and integration of crumpled in-plane micro-supercapacitors. Science Advances, 2022, 8, .	10.3	22
18	Laserâ€Based Growth and Treatment of Graphene for Advanced Photoâ€and Electroâ€Related Device Applications. Advanced Functional Materials, 2022, 32, .	14.9	16

#	ARTICLE	IF	CITATIONS
19	Elongating the cycle life of lithium metal batteries in carbonate electrolyte with gradient solid electrolyte interphase layer. Energy Storage Materials, 2021, 34, 241-249.	18.0	52
20	Insight into Prolonged Cycling Life of 4 V Allâ€Solidâ€State Polymer Batteries by a Highâ€Voltage Stable Binder. Advanced Energy Materials, 2021, 11, .	19.5	52
21	Transition of the Reaction from Threeâ€Phase to Twoâ€Phase by Using a Hybrid Conductor for Highâ€Energyâ€Density Highâ€Rate Solidâ€State Liâ€O₂ Batteries. Angewandte Chemie, 2021, 133, 5885-5890.	2.0	14
22	Transition of the Reaction from Threeâ€Phase to Twoâ€Phase by Using a Hybrid Conductor for Highâ€Energyâ€Density Highâ€Rate Solidâ€State Liâ€O₂ Batteries. Angewandte Chemie - International Edition, 2021, 60, 5821-5826.	13.8	47
23	Injectable fiber batteries for all-region power supply in vivo. Journal of Materials Chemistry A, 2021, 9, 1463-1470.	10.3	31
24	Stretchable supercapacitor at â^'30 Â°C. Energy and Environmental Science, 2021, 14, 3075-3085.	30.8	114
25	Atomic/molecular layer deposition for energy storage and conversion. Chemical Society Reviews, 2021, 50, 3889-3956.	38.1	109
26	Regulated lithium plating and stripping by a nano-scale gradient inorganicâ€“organic coating for stable lithium metal anodes. Energy and Environmental Science, 2021, 14, 4085-4094.	30.8	48
27	Polypyrrole-Based Composite Materials for Electromagnetic Wave Absorption. Polymer Reviews, 2021, 61, 646-687.	10.9	86
28	All-solid-state lithium batteries enabled by sulfide electrolytes: from fundamental research to practical engineering design. Energy and Environmental Science, 2021, 14, 2577-2619.	30.8	201
29	Rational Component and Structure Design of Nobleâ€Metal Composites for Optical and Catalytic Applications. Small Structures, 2021, 2, 2000138.	12.0	31
30	Reviving Anode Protection Layer in Naâ€O₂ Batteries: Failure Mechanism and Resolving Strategy. Advanced Energy Materials, 2021, 11, 2003789.	19.5	22
31	Encapsulating Sn(OH)₄ Nanoparticles in Micropores of Mesocarbon Microbeads: A New Anode Material for Highâ€Performance Lithium Ion Batteries. Advanced Materials Technologies, 2021, 6, 2000849.	5.8	14
32	What Structural Features Make Porous Carbons Work for Redox-Enhanced Electrochemical Capacitors? A Fundamental Investigation. ACS Energy Letters, 2021, 6, 854-861.	17.4	25
33	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. Advanced Functional Materials, 2021, 31, 2010526.	14.9	46
34	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. Nature Communications, 2021, 12, 2647.	12.8	97
35	I 3 â€“ /I â€“ Redox Enhanced Sodium Metal Batteries by Using Graphene Oxide Encapsulated Mesoporous Carbon Sphere Cathode. Advanced Functional Materials, 2021, 31, 2101637.	14.9	4
36	Secure Link Selection for Relay Networks with Buffer. , 2021, , .		0

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37	Lithiumâ€Metal Anodes Working at 60â€…mAâ€‰cm^{â^'2} and 60â€…mAhâ€‰cm^{â^'2} through Nanoscale Lithiumâ€Ion Adsorbing. Angewandte Chemie - International Edition, 2021, 60, 17419-17425.	13.8	39
38	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. ACS Nano, 2021, 15, 11417-11427.	14.6	77
39	Lithiumâ€Metal Anodes Working at 60â€…mAâ€‰cm^{â^'2} and 60â€…mAhâ€‰cm^{â^'2} through Nanoscale Lithiumâ€Ion Adsorbing. Angewandte Chemie, 2021, 133, 17559-17565.	2.0	7
40	An Aqueous Antiâ€Freezing and Heatâ€Tolerant Symmetric Microsupercapacitor with 2.3ÂV Output Voltage. Advanced Energy Materials, 2021, 11, 2101523.	19.5	28
41	Durable sodium battery composed of conductive Ti3C2Tx MXene modified gel polymer electrolyte. Solid State Ionics, 2021, 365, 115655.	2.7	18
42	Advanced Highâ€Voltage Allâ€Solidâ€State Liâ€Ion Batteries Enabled by a Dualâ€Halogen Solid Electrolyte. Advanced Energy Materials, 2021, 11, 2100836.	19.5	64
43	Effective Gait Feature Extraction Using Temporal Fusion And Spatial Partial. , 2021, , .		2
44	Progressive Spatio-Temporal Feature Extraction Model For Gait Recognition. , 2021, , .		2
45	Grain Boundary Design of Solid Electrolyte Actualizing Stable Allâ€Solidâ€State Sodium Batteries. Small, 2021, 17, e2103819.	10.0	29
46	Robust self-gated-carriers enabling highly sensitive wearable temperature sensors. Applied Physics Reviews, 2021, 8, .	11.3	31
47	PEO based polymer in plastic crystal electrolytes for room temperature high-voltage lithium metal batteries. Nano Energy, 2021, 88, 106205.	16.0	88
48	An Airâ€Stable and Liâ€Metalâ€Compatible Glassâ€Ceramic Electrolyte enabling Highâ€Performance Allâ€Solidâ€State Li Metal Batteries. Advanced Materials, 2021, 33, e2006577.	21.0	82
49	Fracture and Fatigue of Al2O3-Graphene Nanolayers. Nano Letters, 2021, 21, 437-444.	9.1	9
50	Electrolyte Dynamics Engineering for Flexible Fiber-Shaped Aqueous Zinc-Ion Battery with Ultralong Stability. Nano Letters, 2021, 21, 9651-9660.	9.1	77
51	Gradually Crosslinking Carbon Nanotube Array in Mimicking the Beak of Giant Squid for Compressionâ€Sensing Supercapacitor. Advanced Functional Materials, 2020, 30, 1902971.	14.9	18
52	Making Fiberâ€Shaped Ni//Bi Battery Simultaneously with High Energy Density, Power Density, and Safety. Advanced Functional Materials, 2020, 30, 1905971.	14.9	40
53	Dual-functional interfaces for highly stable Ni-rich layered cathodes in sulfide all-solid-state batteries. Energy Storage Materials, 2020, 27, 117-123.	18.0	109
54	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO₂ batteries. Journal of Materials Chemistry A, 2020, 8, 2769-2776.	10.3	72

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55	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state Liâ€“Se batteries. Journal of Materials Chemistry A, 2020, 8, 278-286.	10.3	41
56	Variable-Energy Hard X-ray Photoemission Spectroscopy: A Nondestructive Tool to Analyze the Cathodeâ€“Solid-State Electrolyte Interface. ACS Applied Materials & Interfaces, 2020, 12, 2293-2298.	8.0	15
57	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. Nano Energy, 2020, 69, 104396.	16.0	76
58	Compact Assembly and Programmable Integration of Supercapacitors. Advanced Materials, 2020, 32, e1907005.	21.0	42
59	2D Grapheneâ€Based Macroscopic Assemblies for Microâ€Supercapacitors. ChemSusChem, 2020, 13, 1255-1274.	6.8	16
60	Highly-stable P2â€“Na0.67MnO2 electrode enabled by lattice tailoring and surface engineering. Energy Storage Materials, 2020, 26, 503-512.	18.0	101
61	Large-Scale Spinning Approach to Engineering Knittable Hydrogel Fiber for Soft Robots. ACS Nano, 2020, 14, 14929-14938.	14.6	64
62	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. Nature Communications, 2020, 11, 5700.	12.8	122
63	Stabilizing and understanding the interface between nickel-rich cathode and PEO-based electrolyte by lithium niobium oxide coating for high-performance all-solid-state batteries. Nano Energy, 2020, 78, 105107.	16.0	88
64	Tuning ionic conductivity and electrode compatibility of Li3YBr6 for high-performance all solid-state Li batteries. Nano Energy, 2020, 77, 105097.	16.0	41
65	Tuning bifunctional interface for advanced sulfide-based all-solid-state batteries. Energy Storage Materials, 2020, 33, 139-146.	18.0	44
66	Fast Charging All Solidâ€State Lithium Batteries Enabled by Rational Design of Dual Verticallyâ€Aligned Electrodes. Advanced Functional Materials, 2020, 30, 2005357.	14.9	24
67	Signatures of many-body localization and metastability by weak perturbation. Physical Review B, 2020, 102, .	3.2	2
68	Composite Nanostructure Construction on the Grain Surface of Liâ€Rich Layered Oxides. Advanced Materials, 2020, 32, e1906070.	21.0	74
69	Tuning the Anodeâ€“Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	21.0	156
70	Liâ€CO₂ Batteries Efficiently Working at Ultraâ€Low Temperatures. Advanced Functional Materials, 2020, 30, 2001619.	14.9	61
71	Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. Energy Storage Materials, 2020, 30, 238-249.	18.0	46
72	Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. ACS Energy Letters, 2020, 5, 2156-2164.	17.4	76

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73	Interface-assisted in-situ growth of halide electrolytes eliminating interfacial challenges of all-inorganic solid-state batteries. Nano Energy, 2020, 76, 105015.	16.0	80
74	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for Highâ€Performance Metallic Lithium Anode. Advanced Energy Materials, 2020, 10, 2001139.	19.5	36
75	Unveiling the critical role of interfacial ionic conductivity in all-solid-state lithium batteries. Nano Energy, 2020, 72, 104686.	16.0	56
76	Site-Occupation-Tuned Superionic Li_xScCl_{3+x}Halide Solid Electrolytes for All-Solid-State Batteries. Journal of the American Chemical Society, 2020, 142, 7012-7022.	13.7	260
77	3D Printing of Free-Standing â€œO₂ Breathableâ€•Air Electrodes for High-Capacity and Long-Life Naâ€“O₂ Batteries. Chemistry of Materials, 2020, 32, 3018-3027.	6.7	37
78	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. ACS Energy Letters, 2020, 5, 1035-1043.	17.4	176
79	Temperatureâ€Dependent Chemical and Physical Microstructure of Li Metal Anodes Revealed through Synchrotronâ€Based Imaging Techniques. Advanced Materials, 2020, 32, e2002550.	21.0	53
80	A directly swallowable and ingestible micro-supercapacitor. Journal of Materials Chemistry A, 2020, 8, 4055-4061.	10.3	39
81	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm^{â^'2}/20 mAh cm^{â^'2} Realized by Selective Nucleation within Microchannel Walls. Advanced Energy Materials, 2020, 10, 1903753.	19.5	62
82	A Versatile Snâ€Substituted Argyrodite Sulfide Electrolyte for Allâ€Solidâ€State Li Metal Batteries. Advanced Energy Materials, 2020, 10, 1903422.	19.5	183
83	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. Chemistry of Materials, 2020, 32, 1272-1280.	6.7	17
84	Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zincâ€“Air Battery in Mild Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 7239-7248.	8.0	88
85	Suppressed dendrite formation realized by selective Li deposition in all-solid-state lithium batteries. Energy Storage Materials, 2020, 27, 198-204.	18.0	40
86	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solidâ€State Na Metal Batteries. Advanced Functional Materials, 2020, 30, 2001118.	14.9	53
87	Regulation of 2D Graphene Materials for Electrocatalysis. Chemistry - an Asian Journal, 2020, 15, 2271-2281.	3.3	20
88	Tunable Graphene Systems for Water Desalination. ChemNanoMat, 2020, 6, 1028-1048.	2.8	34
89	Na Metal Batteries: Interface Design from Liquid to Solid Systems. ECS Meeting Abstracts, 2020, MA2020-01, 565-565.	0.0	0
90	Rational Design of Protective Film for Long-Life and Stable Lithium Metal Anode Via Molecular Layer Deposition. ECS Meeting Abstracts, 2020, MA2020-01, 555-555.	0.0	0

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91	Stabilizing the Li Metal Interface: Molecular Layer Deposition for Advanced Next-Generation Energy Storage Systems. ECS Meeting Abstracts, 2020, MA2020-01, 281-281.	0.0	0
92	Ultralongâ€Life Quasiâ€Solidâ€State Liâ€O₂ Batteries Enabled by Coupling Advanced Air Electrode Design with Li Metal Anode Protection. Small Methods, 2019, 3, 1800437.	8.6	35
93	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zircone Coatings for Long Life Nextâ€Generation Battery Systems. Angewandte Chemie, 2019, 131, 15944-15949.	2.0	18
94	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zircone Coatings for Long Life Nextâ€Generation Battery Systems. Angewandte Chemie - International Edition, 2019, 58, 15797-15802.	13.8	96
95	Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. Nano Energy, 2019, 65, 103988.	16.0	45
96	An Airâ€Stable and Dendriteâ€Free Li Anode for Highly Stable Allâ€Solidâ€State Sulfideâ€Based Li Batteries. Advanced Energy Materials, 2019, 9, 1902125.	19.5	133
97	Self-healing electrostatic shield enabling uniform lithium deposition in all-solid-state lithium batteries. Energy Storage Materials, 2019, 22, 194-199.	18.0	55
98	Tunable-Deformed Graphene Layers for Actuation. Frontiers in Chemistry, 2019, 7, 725.	3.6	6
99	O₂/O₂^{â€“} Crossover- and Dendrite-Free Hybrid Solid-State Naâ€“O₂ Batteries. Chemistry of Materials, 2019, 31, 9024-9031.	6.7	24
100	A Sodiophilic Interphaseâ€Mediated, Dendriteâ€Free Anode with Ultrahigh Specific Capacity for Sodiumâ€Metal Batteries. Angewandte Chemie, 2019, 131, 17210-17216.	2.0	49
101	A Sodiophilic Interphaseâ€Mediated, Dendriteâ€Free Anode with Ultrahigh Specific Capacity for Sodiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2019, 58, 17054-17060.	13.8	119
102	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. ACS Catalysis, 2019, 9, 9350-9358.	11.2	106
103	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. Matter, 2019, 1, 1215-1231.	10.0	120
104	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2019, 4, 2480-2488.	17.4	154
105	In situ formation of highly controllable and stable Na₃PS₄ as a protective layer for Na metal anode. Journal of Materials Chemistry A, 2019, 7, 4119-4125.	10.3	51
106	Radio frequency heating of metallic and semiconducting single-walled carbon nanotubes. Nanoscale, 2019, 11, 9617-9625.	5.6	22
107	Promoting the Transformation of Li₂S₂ to Li₂S: Significantly Increasing Utilization of Active Materials for Highâ€Sulfurâ€Loading Liâ€“S Batteries. Advanced Materials, 2019, 31, e1901220.	21.0	303
108	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. ACS Catalysis, 2019, 9, 5365-5374.	11.2	47

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109	Manipulating Interfacial Nanostructure to Achieve Highâ€Performance Allâ€Solidâ€State Lithiumâ€Ion Batteries. Small Methods, 2019, 3, 1900261.	8.6	90
110	Rational design of porous structures via molecular layer deposition as an effective stabilizer for enhancing Pt ORR performance. Nano Energy, 2019, 60, 111-118.	16.0	62
111	Engineering a â€œnanonetâ€•reinforced polymer electrolyte for long-life Liâ€“O2 batteries. Journal of Materials Chemistry A, 2019, 7, 24947-24952.	10.3	16
112	Tiâ€Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. Small, 2019, 15, e1904740.	10.0	121
113	In Situ Intercalation of Bismuth into 3D Reduced Graphene Oxide Scaffolds for High Capacity and Long Cycleâ€Life Energy Storage. Small, 2019, 15, e1905903.	10.0	11
114	Nanomechanical elasticity and fracture studies of lithium phosphate (LPO) and lithium tantalate (LTO) solid-state electrolytes. Nanoscale, 2019, 11, 18730-18738.	5.6	17
115	Stabilizing Lithium into Crossâ€Stacked Nanotube Sheets with an Ultraâ€High Specific Capacity for Lithium Oxygen Batteries. Angewandte Chemie - International Edition, 2019, 58, 2437-2442.	13.8	111
116	Stabilizing Lithium into Crossâ€Stacked Nanotube Sheets with an Ultraâ€High Specific Capacity for Lithium Oxygen Batteries. Angewandte Chemie, 2019, 131, 2459-2464.	2.0	18
117	A Novel Organic â€œPolyureaâ€•Thin Film for Ultralongâ€Life Lithiumâ€Metal Anodes via Molecularâ€Layer Deposition. Advanced Materials, 2019, 31, e1806541.	21.0	204
118	Molecular-Level Engineering of Protected Li Metal Anodes for High Performance Next-Generation Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
119	Molecular Layer Deposition for Energy Conversion and Storage. ACS Energy Letters, 2018, 3, 899-914.	17.4	123
120	High Capacity, Dendriteâ€Free Growth, and Minimum Volume Change Na Metal Anode. Small, 2018, 14, e1703717.	10.0	104
121	Robust Metallic Lithium Anode Protection by the Molecularâ€Layerâ€Deposition Technique. Small Methods, 2018, 2, 1700417.	8.6	84
122	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. Advanced Functional Materials, 2018, 28, 1705967.	14.9	78
123	Sticky-note supercapacitors. Journal of Materials Chemistry A, 2018, 6, 3355-3360.	10.3	28
124	Aligning the binder effect on sodiumâ€“air batteries. Journal of Materials Chemistry A, 2018, 6, 1473-1484.	10.3	21
125	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. Nano Energy, 2018, 48, 35-43.	16.0	143
126	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 1654-1661.	8.0	85

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127	Gel Polymer Electrolytes for Electrochemical Energy Storage. Advanced Energy Materials, 2018, 8, 1702184.	19.5	674
128	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. Nano Energy, 2018, 43, 368-375.	16.0	117
129	A capacity recoverable zinc-ion micro-supercapacitor. Energy and Environmental Science, 2018, 11, 3367-3374.	30.8	263
130	Multi-functional nanowall arrays with unrestricted Li⁺ transport channels and an integrated conductive network for high-areal-capacity Liâ€“S batteries. Journal of Materials Chemistry A, 2018, 6, 22958-22965.	10.3	31
131	Stabilization of all-solid-state Liâ€“S batteries with a polymerâ€“ceramic sandwich electrolyte by atomic layer deposition. Journal of Materials Chemistry A, 2018, 6, 23712-23719.	10.3	77
132	Addressing Interfacial Issues in Liquid-Based and Solid-State Batteries by Atomic and Molecular Layer Deposition. Joule, 2018, 2, 2583-2604.	24.0	198
133	Selective atomic layer deposition of RuO_x catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. Journal of Materials Chemistry A, 2018, 6, 24397-24406.	10.3	31
134	In Situ Li₃PS₄ Solidâ€State Electrolyte Protection Layers for Superior Longâ€Life and Highâ€Rate Lithiumâ€Metal Anodes. Advanced Materials, 2018, 30, e1804684.	21.0	140
135	Towards high performance Li metal batteries: Nanoscale surface modification of 3D metal hosts for pre-stored Li metal anodes. Nano Energy, 2018, 54, 375-382.	16.0	123
136	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. Nature Communications, 2018, 9, 4509.	12.8	175
137	Origin of achieving the enhanced activity and stability of Pt electrocatalysts with strong metal-support interactions via atomic layer deposition. Nano Energy, 2018, 53, 716-725.	16.0	53
138	Ultrahighâ€Capacity and Longâ€Life Lithiumâ€“Metal Batteries Enabled by Engineering Carbon Nanofiberâ€“Stabilized Graphene Aerogel Film Host. Small, 2018, 14, e1803310.	10.0	48
139	Versatile origami micro-supercapacitors array as a wind energy harvester. Journal of Materials Chemistry A, 2018, 6, 19750-19756.	10.3	37
140	Recent developments and insights into the understanding of Na metal anodes for Na-metal batteries. Energy and Environmental Science, 2018, 11, 2673-2695.	30.8	388
141	On the Cycling Performance of Naâ€O₂ Cells: Revealing the Impact of the Superoxide Crossover toward the Metallic Na Electrode. Advanced Functional Materials, 2018, 28, 1801904.	14.9	37
142	Dendrite-free and minimum volume change Li metal anode achieved by three-dimensional artificial interlayers. Energy Storage Materials, 2018, 15, 415-421.	18.0	40
143	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2018, 10, 31240-31248.	8.0	207
144	Stabilizing interface between Li10SnP2S12 and Li metal by molecular layer deposition. Nano Energy, 2018, 53, 168-174.	16.0	132

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145	Nanoscale Homogeneous Energetic Copper Azides@Porous Carbon Hybrid with Reduced Sensitivity and High Ignition Ability. ACS Applied Materials & Interfaces, 2018, 10, 22545-22551.	8.0	33
146	Controlling the Geometries of Si Nanowires through Tunable Nanosphere Lithography. ACS Applied Materials & Interfaces, 2017, 9, 7368-7375.	8.0	13
147	Superior performance of ordered macroporous TiNb 2 O 7 anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. Nano Energy, 2017, 34, 15-25.	16.0	351
148	Decoupling atomic-layer-deposition ultrafine RuO 2 for high-efficiency and ultralong-life Li-O 2 batteries. Nano Energy, 2017, 34, 399-407.	16.0	63
149	Meshâ€onâ€Mesh Graphiticâ€C₃N₄@Graphene for Highly Efficient Hydrogen Evolution. Advanced Functional Materials, 2017, 27, 1606352.	14.9	145
150	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. Advanced Materials, 2017, 29, 1606663.	21.0	273
151	Unusual Assembly and Conversion of Graphene Quantum Dots into Crystalline Graphite Nanocapsules. Chemistry - an Asian Journal, 2017, 12, 1272-1276.	3.3	4
152	Strongly Bound Sodium Dodecyl Sulfate Surrounding Single-Wall Carbon Nanotubes. Langmuir, 2017, 33, 5006-5014.	3.5	26
153	New insight into atomic-scale engineering of electrode surface for long-life and safe high voltage lithium ion cathodes. Nano Energy, 2017, 38, 19-27.	16.0	50
154	Interconnected Molybdenum Carbide-Based Nanoribbons for Highly Efficient and Ultrastable Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 24608-24615.	8.0	44
155	Atomic Layer Deposited Nonâ€Noble Metal Oxide Catalyst for Sodiumâ€“Air Batteries: Tuning the Morphologies and Compositions of Discharge Product. Advanced Functional Materials, 2017, 27, 1606662.	14.9	34
156	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as Highâ€Performance Cathode. Advanced Materials, 2017, 29, 1703764.	21.0	119
157	Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues. Advanced Materials, 2017, 29, 1702713.	21.0	85
158	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2017, 9, 31786-31793.	8.0	58
159	Boiling and quenching heat transfer advancement by nanoscale surface modification. Scientific Reports, 2017, 7, 6117.	3.3	39
160	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. CheM, 2017, 3, 348-362.	11.7	194
161	Inorganicâ€“Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. Nano Letters, 2017, 17, 5653-5659.	9.1	243
162	Tissue Engineering: Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues (Adv. Mater. 44/2017). Advanced Materials, 2017, 29, .	21.0	1

#	Article	IF	Citations
163	A facile route to prepare reflective counter electrode for enhanced dye-sensitised solar cell efficiency. International Journal of Nano and Biomaterials, 2016, 6, 205.	0.1	0
164	Recent Developments and Understanding of Novel Mixed Transitionâ€Metal Oxides as Anodes in Lithium Ion Batteries. Advanced Energy Materials, 2016, 6, 1502175.	19.5	756
165	Superelastic, Macroporous Polystyreneâ€Mediated Graphene Aerogels for Active Pressure Sensing. Chemistry - an Asian Journal, 2016, 11, 1071-1075.	3.3	34
166	Polymer/Graphene Hybrids for Advanced Energyâ€Conversion and â€Storage Materials. Chemistry - an Asian Journal, 2016, 11, 1151-1168.	3.3	31
167	A fiber-shaped aqueous lithium ion battery with high power density. Journal of Materials Chemistry A, 2016, 4, 9002-9008.	10.3	132
168	Direct spinning of fiber supercapacitor. Nanoscale, 2016, 8, 12113-12117.	5.6	55
169	Balancing surface area with electron recombination in nanowire-based dye-sensitized solar cells. Solar Energy, 2016, 132, 214-220.	6.1	15
170	Carbon nanotubes cross-linked Zn2SnO4 nanoparticles/graphene networks as high capacities, long life anode materials for lithium ion batteries. Journal of Applied Electrochemistry, 2016, 46, 851-860.	2.9	19
171	Crumpled reduced graphene oxide conformally encapsulated hollow V2O5 nano/microsphere achieving brilliant lithium storage performance. Nano Energy, 2016, 24, 32-44.	16.0	132
172	A Selfâ€Healing Aqueous Lithiumâ€Ion Battery. Angewandte Chemie, 2016, 128, 14596-14600.	2.0	25
173	A Selfâ€Healing Aqueous Lithiumâ€Ion Battery. Angewandte Chemie - International Edition, 2016, 55, 14384-14388.	13.8	191
174	Versatile Graphene Oxide Puttyâ€Like Material. Advanced Materials, 2016, 28, 10287-10292.	21.0	68
175	Vaporâ€Activated Power Generation on Conductive Polymer. Advanced Functional Materials, 2016, 26, 8784-8792.	14.9	110
176	Advances in Wearable Fiberâ€Shaped Lithiumâ€Ion Batteries. Advanced Materials, 2016, 28, 4524-4531.	21.0	201
177	Magnetic graphene@PANI@porous TiO₂ ternary composites for high-performance electromagnetic wave absorption. Journal of Materials Chemistry C, 2016, 4, 6362-6370.	5.5	332
178	An Allâ€Solidâ€State Fiberâ€Shaped Aluminumâ€“Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. Angewandte Chemie, 2016, 128, 8111-8114.	2.0	70
179	An Allâ€Solidâ€State Fiberâ€Shaped Aluminumâ€“Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. Angewandte Chemie - International Edition, 2016, 55, 7979-7982.	13.8	211
180	Elastic and wearable ring-type supercapacitors. Journal of Materials Chemistry A, 2016, 4, 3217-3222.	10.3	34

#	Article	IF	Citations
181	Fabricating vertically aligned sub-20 nm Si nanowire arrays by chemical etching and thermal oxidation. Nanotechnology, 2016, 27, 165303.	2.6	15
182	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxideâ€“Polypyrrole Composite Films for Versatile Actuators. ACS Nano, 2016, 10, 4735-4741.	14.6	120
183	Construction of CuS Nanoflakes Vertically Aligned on Magnetically Decorated Graphene and Their Enhanced Microwave Absorption Properties. ACS Applied Materials & Interfaces, 2016, 8, 5536-5546.	8.0	435
184	Controlled synthesis of hollow Siâ€“Niâ€“Sn nanoarchitectured electrode for advanced lithium-ion batteries. RSC Advances, 2016, 6, 23260-23264.	3.6	5
185	Selective desorption of high-purity (6,5) SWCNTs from hydrogels through surfactant modulation. Chemical Communications, 2016, 52, 2928-2931.	4.1	42
186	Metal organic frameworks for energy storage and conversion. Energy Storage Materials, 2016, 2, 35-62.	18.0	483
187	The Application of Atomic Layer Deposition in Lithium-Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
188	Metal Organic Framework Derived Nanomaterials in the Application of Lithium-Ion and Sodium-Ion Battery. ECS Meeting Abstracts, 2016, , .	0.0	0
189	A Graphene Fibriform Responsor for Sensing Heat, Humidity, and Mechanical Changes. Angewandte Chemie - International Edition, 2015, 54, 14951-14955.	13.8	77
190	Realizing both High Energy and High Power Densities by Twisting Three Carbonâ€Nanotubeâ€Based Hybrid Fibers. Angewandte Chemie - International Edition, 2015, 54, 11177-11182.	13.8	97
191	A Shapeâ€Memory Supercapacitor Fiber. Angewandte Chemie - International Edition, 2015, 54, 15419-15423.	13.8	141
192	Improving Performance via Blocking Layers in Dye-Sensitized Solar Cells Based on Nanowire Photoanodes. ACS Applied Materials & Interfaces, 2015, 7, 12824-12831.	8.0	49
193	Preparation and application of hollow ZnFe2O4@PANI hybrids as high performance anode materials for lithium-ion batteries. RSC Advances, 2015, 5, 107247-107253.	3.6	31
194	Sulfur-doped graphitic carbon nitride decorated with graphene quantum dots for an efficient metal-free electrocatalyst. Journal of Materials Chemistry A, 2015, 3, 1841-1846.	10.3	229
195	Controlled synthesis of tin-doped indium oxide (ITO) nanowires. Journal of Crystal Growth, 2015, 413, 31-36.	1.5	29
196	Three-dimensional graphitic carbon nitride functionalized graphene-based high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 6761-6766.	10.3	173
197	Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17553-17557.	10.3	103
198	Oxygen-containing Functional Groups Enhancing Electrochemical Performance of Porous Reduced Graphene Oxide Cathode in Lithium Ion Batteries. Electrochimica Acta, 2015, 174, 762-769.	5.2	86

#	Article	IF	Citations
199	Electrospun SnO2â€“ZnO nanofibers with improved electrochemical performance as anode materials for lithium-ion batteries. International Journal of Hydrogen Energy, 2015, 40, 14338-14344.	7.1	50
200	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. Journal of Power Sources, 2015, 274, 869-884.	7.8	343
201	Modification and enhancement of cryogenic quenching heat transfer by a nanoporous surface. International Journal of Heat and Mass Transfer, 2015, 80, 636-643.	4.8	51
202	Tin-Doped Indium Oxide-Titania Core-Shell Nanostructures for Dye-Sensitized Solar Cells. Advances in Condensed Matter Physics, 2014, 2014, 1-6.	1.1	8
203	Comparing Electron Recombination via Interfacial Modifications in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 20978-20984.	8.0	41
204	Hydrothermal synthesis of flower-like Zn2SnO4 composites and their performance as anode materials for lithium-ion batteries. Ceramics International, 2014, 40, 8021-8025.	4.8	33
205	Hollow Zn2SnO4 boxes wrapped with flexible graphene as anode materials for lithium batteries. Electrochimica Acta, 2014, 120, 128-132.	5.2	38
206	One-pot hydrothermal synthesis of RGO/CoFe 2 O 4 composite and its excellent microwave absorption properties. Materials Letters, 2014, 114, 52-55.	2.6	137
207	Spinning fabrication of graphene/polypyrrole composite fibers for all-solid-state, flexible fibriform supercapacitors. Journal of Materials Chemistry A, 2014, 2, 12355.	10.3	199
208	Graphene fiber: a new material platform for unique applications. NPG Asia Materials, 2014, 6, e113-e113.	7.9	175
209	Decoration of graphene network with metalâ€“organic frameworks for enhanced electrochemical capacitive behavior. Carbon, 2014, 78, 231-242.	10.3	118
210	Evaluation of Critical Parameters in the Separation of Single-Wall Carbon Nanotubes through Selective Adsorption onto Hydrogels. Journal of Physical Chemistry C, 2014, 118, 15495-15505.	3.1	18
211	Preparation of hollow Zn2SnO4 boxes@C/graphene ternary composites with a triple buffering structure and their electrochemical performance for lithium-ion batteries. Electrochimica Acta, 2014, 147, 201-208.	5.2	42
212	Functional graphene nanomesh foam. Energy and Environmental Science, 2014, 7, 1913.	30.8	206
213	Hollow Zn2SnO4 boxes coated with N-doped carbon for advanced lithium-ion batteries. Ceramics International, 2014, 40, 2275-2280.	4.8	29
214	TiO2 supported on bamboo charcoal for H2O2-assisted pollutant degradation under solar light. Materials Science in Semiconductor Processing, 2014, 17, 124-128.	4.0	9
215	Facile synthesis and performance of polypyrrole-coated hollow Zn2SnO4 boxes as anode materials for lithium-ion batteries. Ceramics International, 2014, 40, 2359-2364.	4.8	32
216	Preparation of BaFe12O19 as anode material for lithium-ion batteries through solâ€“gel method. Journal of Sol-Gel Science and Technology, 2013, 66, 238-241.	2.4	8

#	Article	IF	Citations
217	Preparation of hollow Zn2SnO4 boxes for advanced lithium-ion batteries. RSC Advances, 2013, 3, 14480.	3.6	62
218	Facile preparation of RGO/Cu2O/Cu composite and its excellent microwave absorption properties. Materials Letters, 2013, 109, 112-115.	2.6	71
219	Grapheneâ€Supported <scp><scp>Ce</scp></scp>â€“<scp><scp>SnS</scp></scp>₂ Nanocomposite as Anode Material for Lithiumâ€Ion Batteries. Journal of the American Ceramic Society, 2013, 96, 2190-2196.	3.8	47
220	Polyaniline(PANI) coated Zn2SnO4 cube as anode materials for lithium batteries. Polymer Testing, 2013, 32, 1582-1587.	4.8	20
221	Supraparamagnetic quaternary nanocomposites of graphene@Fe3O4@SiO2@SnO2: Synthesis and enhanced electromagnetic absorption properties. Materials Letters, 2013, 109, 146-150.	2.6	29
222	The study on the Li-storage performances of bamboo charcoal (BC) and BC/Li2SnO3 composites. Journal of Applied Electrochemistry, 2013, 43, 1243-1248.	2.9	7
223	Facile preparation, high microwave absorption and microwave absorbing mechanism of RGOâ€“Fe3O4 composites. RSC Advances, 2013, 3, 23638.	3.6	346
224	Botryoidalis hollow Zn2SnO4 boxes@graphene as anode materials for advanced lithium-ion batteries. RSC Advances, 2013, 3, 23489.	3.6	30
225	One-pot simplified co-precipitation synthesis of reduced graphene oxide/Fe3O4 composite and its microwave electromagnetic properties. Materials Letters, 2013, 106, 22-25.	2.6	59
226	Carbon-doped Li2SnO3/graphene as an anode material for lithium-ion batteries. Ceramics International, 2013, 39, 1741-1747.	4.8	37
227	Textile electrodes woven by carbon nanotubeâ€“graphene hybrid fibers for flexible electrochemical capacitors. Nanoscale, 2013, 5, 3428.	5.6	307
228	Graphene supported poly-pyrrole(PPY)/Li 2 SnO 3 ternary composites as anode materials for lithium ion batteries. Ceramics International, 2013, 39, 6861-6866.	4.8	28
229	Synthesis and electrochemical characterizations of Ce doped SnS2 anode materials for rechargeable lithium ion batteries. Electrochimica Acta, 2013, 93, 120-130.	5.2	80
230	Allâ€Graphene Coreâ€Sheath Microfibers for Allâ€Solidâ€State, Stretchable Fibriform Supercapacitors and Wearable Electronic Textiles. Advanced Materials, 2013, 25, 2326-2331.	21.0	1,007
231	Highly Compressionâ€Tolerant Supercapacitor Based on Polypyrroleâ€mediated Graphene Foam Electrodes. Advanced Materials, 2013, 25, 591-595.	21.0	745
232	Stimulus-responsive graphene systems towards actuator applications. Energy and Environmental Science, 2013, 6, 3520.	30.8	130
233	Preparation of Li₂SnO₃ and its application in lithiumâ€ion batteries. Surface and Interface Analysis, 2013, 45, 1297-1303.	1.8	19
234	Graphene supported Li2SnO3 as anode material for lithium-ion batteries. Electronic Materials Letters, 2013, 9, 683-686.	2.2	19

#	Article	IF	Citations
235	Facile synthesis of RGO/Fe3O4/Ag composite with high microwave absorption capacity. Materials Letters, 2013, 111, 188-191.	2.6	49
236	Three novel organosilver(I) coordination networks constructed from diallylmelamine and polycarboxylates incorporating silver-vinyl bonding. Dalton Transactions, 2012, 41, 2289-2295.	3.3	8
237	Hydrothermal derived Li2SnO3/C composite as negative electrode materials for lithium-ion batteries. Applied Surface Science, 2012, 258, 6923-6929.	6.1	32
238	Synthesis and properties of Li2SnO3/polyaniline nanocomposites as negative electrode material for lithium-ion batteries. Applied Surface Science, 2012, 258, 9896-9901.	6.1	42
239	Synthesis and properties of carbon-doped Li2SnO3 nanocomposite as cathode material for lithium-ion batteries. Materials Letters, 2012, 71, 66-69.	2.6	27
240	Syntheses, structures and photoluminescent properties of a series of Ag(i) coordination architectures based on 2,4-diamino-6-methyl-1,3,5-triazine and dicarboxylates: from a 0D discrete molecule to a 3D infinite network. CrystEngComm, 2011, 13, 6431.	2.6	57
241	Intense and wavelength-tunable photoluminescence from surface functionalized MgO nanocrystal clusters. Journal of Materials Chemistry, 2011, 21, 7263.	6.7	36
242	Two Ag(I) coordination polymers derived from melamine and dicarboxylates: Syntheses, crystal structures and thermal stabilities. Journal of Molecular Structure, 2011, 1000, 85-91.	3.6	15
243	Controlled removal of individual carbon nanotubes from vertically aligned arrays for advanced nanoelectrodes. Journal of Materials Chemistry, 2010, 20, 3595.	6.7	9
244	Variational energy band theory for polarons: Mapping polaron structure with the Toyozawa method. Journal of Chemical Physics, 1997, 107, 3159-3178.	3.0	62
245	Variational energy band theory for polarons: Mapping polaron structure with the Merrifield method. Journal of Chemical Physics, 1997, 106, 5622-5630.	3.0	46
246	A variational approach to nonlocal excitonâ€“phonon coupling. Journal of Chemical Physics, 1997, 106, 2728-2740.	3.0	38
247	On the Munnâ€“Silbey approach to nonlocal excitonâ€“phonon coupling. Journal of Chemical Physics, 1994, 100, 2335-2345.	3.0	62
248	Highâ€Efficiency and Stable Liâ€CO2 Battery Enabled by Carbon Nanotube/Carbon Nitride Heterostructured Photocathode. Angewandte Chemie, 0, , .	2.0	6