Yang Zhao

List of Publications by Citations

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236 papers	14,989 citations	64 h-index	115 g-index
251 ext. papers	18,350 ext. citations	13.3 avg, IF	7 L-index

#	Paper	IF	Citations
236	All-graphene core-sheath microfibers for all-solid-state, stretchable fibriform supercapacitors and wearable electronic textiles. *Advanced Materials*, **2013**, 25, 2326-31	24	912
235	Highly compression-tolerant supercapacitor based on polypyrrole-mediated graphene foam electrodes. *Advanced Materials*, **2013**, 25, 591-5	24	676
234	Recent Developments and Understanding of Novel Mixed Transition-Metal Oxides as Anodes in Lithium Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502175	21.8	600
233	Gel Polymer Electrolytes for Electrochemical Energy Storage. *Advanced Energy Materials*, **2018**, 8, 1702184	24.8	435
232	Metal organic frameworks for energy storage and conversion. *Energy Storage Materials*, **2016**, 2, 35-62	19.4	386
231	Construction of CuS Nanoflakes Vertically Aligned on Magnetically Decorated Graphene and Their Enhanced Microwave Absorption Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 5536-46	9.5	366
230	Facile preparation, high microwave absorption and microwave absorbing mechanism of RGO□e3O4 composites. *RSC Advances*, **2013**, 3, 23638	3.7	313
229	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	8.9	307
228	Magnetic graphene@PANI@porous TiO2 ternary composites for high-performance electromagnetic wave absorption. *Journal of Materials Chemistry C*, **2016**, 4, 6362-6370	7.1	279
227	Textile electrodes woven by carbon nanotube-graphene hybrid fibers for flexible electrochemical capacitors. *Nanoscale*, **2013**, 5, 3428-34	7.7	274
226	Superior performance of ordered macroporous TiNb2O7 anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. *Nano Energy*, **2017**, 34, 15-25	17.1	264
225	Recent developments and insights into the understanding of Na metal anodes for Na-metal batteries. *Energy and Environmental Science*, **2018**, 11, 2673-2695	35.4	257
224	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. *Advanced Materials*, **2017**, 29, 1606663	24	221
223	Functional graphene nanomesh foam. *Energy and Environmental Science*, **2014**, 7, 1913	35.4	192
222	Promoting the Transformation of Li S to Li S: Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. *Advanced Materials*, **2019**, 31, e1901220	24	186
221	A capacity recoverable zinc-ion micro-supercapacitor. *Energy and Environmental Science*, **2018**, 11, 3367-3374	35.4	185
220	Inorganic-Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. *Nano Letters*, **2017**, 17, 5653-5659	11.5	183

219	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	13	183
218	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. *Advanced Materials*, **2016**, 28, 4524-31	24	173
217	Spinning fabrication of graphene/polypyrrole composite fibers for all-solid-state, flexible fibriform supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 12355	13	172
216	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. *Angewandte Chemie - International Edition*, **2016**, 55, 7979-82	16.4	167
215	Graphene fiber: a new material platform for unique applications. *NPG Asia Materials*, **2014**, 6, e113-e113	10.3	158
214	A Self-Healing Aqueous Lithium-Ion Battery. *Angewandte Chemie - International Edition*, **2016**, 55, 14384-14388	16.4	151
213	Three-dimensional graphitic carbon nitride functionalized graphene-based high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 6761-6766	13	146
212	Addressing Interfacial Issues in Liquid-Based and Solid-State Batteries by Atomic and Molecular Layer Deposition. *Joule*, **2018**, 2, 2583-2604	27.8	138
211	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. *CheM*, **2017**, 3, 348-362	16.2	135
210	A Novel Organic "Polyurea" Thin Film for Ultralong-Life Lithium-Metal Anodes via Molecular-Layer Deposition. *Advanced Materials*, **2019**, 31, e1806541	24	129
209	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. *ACS Applied Materials & Interfaces*, **2018**, 10, 31240-31248	9.5	125
208	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. *Nature Communications*, **2018**, 9, 4509	17.4	123
207	A Shape-Memory Supercapacitor Fiber. *Angewandte Chemie - International Edition*, **2015**, 54, 15419-23	16.4	118
206	One-pot hydrothermal synthesis of RGO/CoFe 2 O 4 composite and its excellent microwave absorption properties. *Materials Letters*, **2014**, 114, 52-55	3.3	117
205	Mesh-on-Mesh Graphitic-C3N4@Graphene for Highly Efficient Hydrogen Evolution. *Advanced Functional Materials*, **2017**, 27, 1606352	15.6	115
204	Stimulus-responsive graphene systems towards actuator applications. *Energy and Environmental Science*, **2013**, 6, 3520	35.4	115
203	Crumpled reduced graphene oxide conformally encapsulated hollow V2O5 nano/microsphere achieving brilliant lithium storage performance. *Nano Energy*, **2016**, 24, 32-44	17.1	111
202	A fiber-shaped aqueous lithium ion battery with high power density. *Journal of Materials Chemistry A*, **2016**, 4, 9002-9008	13	105

201	Decoration of graphene network with metal–organic frameworks for enhanced electrochemical capacitive behavior. *Carbon*, **2014**, 78, 231-242	10.4	103
200	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. *Nano Energy*, **2018**, 43, 368-375	17.1	103
199	In Situ Li PS Solid-State Electrolyte Protection Layers for Superior Long-Life and High-Rate Lithium-Metal Anodes. *Advanced Materials*, **2018**, 30, e1804684	24	102
198	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxide-Polypyrrole Composite Films for Versatile Actuators. *ACS Nano*, **2016**, 10, 4735-41	16.7	101
197	Site-Occupation-Tuned Superionic LiScClHalide Solid Electrolytes for All-Solid-State Batteries. *Journal of the American Chemical Society*, **2020**, 142, 7012-7022	16.4	97
196	Molecular Layer Deposition for Energy Conversion and Storage. *ACS Energy Letters*, **2018**, 3, 899-914	20.1	96
195	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. *Nano Energy*, **2018**, 48, 35-43	17.1	92
194	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. *Advanced Materials*, **2017**, 29, 1703764	24	91
193	Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 17553-17557	13	89
192	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	20.1	85
191	Stabilizing interface between Li10SnP2S12 and Li metal by molecular layer deposition. *Nano Energy* , **2018**, 53, 168-174	17.1	84
190	Realizing both high energy and high power densities by twisting three carbon-nanotube-based hybrid fibers. *Angewandte Chemie - International Edition*, **2015**, 54, 11177-82	16.4	83
189	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. *Advanced Materials*, **2020**, 32, e2000030	24	81
188	A Versatile Sn-Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. *Advanced Energy Materials*, **2020**, 10, 1903422	21.8	81
187	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 2437-2442	16.4	81
186	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	17.1	80
185	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. *Small*, **2018**, 14, e1703717	11	75
184	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. *ACS Energy Letters*, **2020**, 5, 1035-1043	20.1	73

183	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. *Matter*, **2019**, 1, 1215-1231	12.7	72
182	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. *Advanced Energy Materials*, **2019**, 9, 1902125	21.8	72
181	Synthesis and electrochemical characterizations of Ce doped SnS2 anode materials for rechargeable lithium ion batteries. *Electrochimica Acta*, **2013**, 93, 120-130	6.7	72
180	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 17054-17060	16.4	71
179	A Graphene Fibriform Responsor for Sensing Heat, Humidity, and Mechanical Changes. *Angewandte Chemie - International Edition*, **2015**, 54, 14951-5	16.4	70
178	Oxygen-containing Functional Groups Enhancing Electrochemical Performance of Porous Reduced Graphene Oxide Cathode in Lithium Ion Batteries. *Electrochimica Acta*, **2015**, 174, 762-769	6.7	69
177	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. *Small*, **2019**, 15, e1904740	11	69
176	Facile preparation of RGO/Cu2O/Cu composite and its excellent microwave absorption properties. *Materials Letters*, **2013**, 109, 112-115	3.3	67
175	Robust Metallic Lithium Anode Protection by the Molecular-Layer-Deposition Technique. *Small Methods*, **2018**, 2, 1700417	12.8	65
174	Vapor-Activated Power Generation on Conductive Polymer. *Advanced Functional Materials*, **2016**, 26, 8784-8792	15.6	64
173	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zircone Coatings for Long Life Next-Generation Battery Systems. *Angewandte Chemie - International Edition*, **2019**, 58, 15797-15802	16.4	64
172	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 1654-1661	9.5	63
171	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. *ACS Catalysis*, **2019**, 9, 9350-9358	13.1	61
170	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. *Small Methods*, **2019**, 3, 1900261	12.8	60
169	Preparation of hollow Zn2SnO4 boxes for advanced lithium-ion batteries. *RSC Advances*, **2013**, 3, 14480	3.7	59
168	Variational energy band theory for polarons: Mapping polaron structure with the Toyozawa method. *Journal of Chemical Physics*, **1997**, 107, 3159-3178	3.9	59
167	Dual-functional interfaces for highly stable Ni-rich layered cathodes in sulfide all-solid-state batteries. *Energy Storage Materials*, **2020**, 27, 117-123	19.4	59
166	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. *Advanced Functional Materials*, **2018**, 28, 1705967	15.6	58

165	On the Munn□Silbey approach to nonlocal exciton□phonon coupling. *Journal of Chemical Physics*, **1994**, 100, 2335-2345	3.9	57
164	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	3.3	55
163	Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues. *Advanced Materials*, **2017**, 29, 1702713	24	53
162	One-pot simplified co-precipitation synthesis of reduced graphene oxide/Fe3O4 composite and its microwave electromagnetic properties. *Materials Letters*, **2013**, 106, 22-25	3.3	52
161	Decoupling atomic-layer-deposition ultrafine RuO2 for high-efficiency and ultralong-life Li-O2 batteries. *Nano Energy*, **2017**, 34, 399-407	17.1	51
160	Stabilization of all-solid-state Li□ batteries with a polymer□eramic sandwich electrolyte by atomic layer deposition. *Journal of Materials Chemistry A*, **2018**, 6, 23712-23719	13	51
159	An All-Solid-State Fiber-Shaped Aluminum□Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. *Angewandte Chemie*, **2016**, 128, 8111-8114	3.6	49
158	Versatile Graphene Oxide Putty-Like Material. *Advanced Materials*, **2016**, 28, 10287-10292	24	49
157	All-solid-state lithium batteries enabled by sulfide electrolytes: from fundamental research to practical engineering design. *Energy and Environmental Science*, **2021**, 14, 2577-2619	35.4	49
156	Direct spinning of fiber supercapacitor. *Nanoscale*, **2016**, 8, 12113-7	7.7	48
155	Improving Performance via Blocking Layers in Dye-Sensitized Solar Cells Based on Nanowire Photoanodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 12824-31	9.5	45
154	Stretchable supercapacitor at □0 □C. *Energy and Environmental Science*, **2021**, 14, 3075-3085	35.4	45
153	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm□/20 mAh cm□ Realized by Selective Nucleation within Microchannel Walls. *Advanced Energy Materials*, **2020**, 10, 1903753	21.8	44
152	Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zinc-Air Battery in Mild Electrolyte. *ACS Applied Materials & Interfaces*, **2020**, 12, 7239-7248	9.5	43
151	Graphene-Supported Ce□nS2 Nanocomposite as Anode Material for Lithium-Ion Batteries. *Journal of the American Ceramic Society*, **2013**, 96, 2190-2196	3.8	43
150	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 31786-31793	9.5	43
149	Variational energy band theory for polarons: Mapping polaron structure with the Merrifield method. *Journal of Chemical Physics*, **1997**, 106, 5622-5630	3.9	43
148	Highly-stable P2□Na0.67MnO2 electrode enabled by lattice tailoring and surface engineering. *Energy Storage Materials*, **2020**, 26, 503-512	19.4	43

147	Rational design of porous structures via molecular layer deposition as an effective stabilizer for enhancing Pt ORR performance. *Nano Energy*, **2019**, 60, 111-118	17.1	41
146	Electrospun SnO2–ZnO nanofibers with improved electrochemical performance as anode materials for lithium-ion batteries. *International Journal of Hydrogen Energy*, **2015**, 40, 14338-14344	6.7	41
145	Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. *ACS Energy Letters*, **2020**, 5, 2156-2164	20.1	41
144	Comparing electron recombination via interfacial modifications in dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 20978-84	9.5	40
143	Facile synthesis of RGO/Fe3O4/Ag composite with high microwave absorption capacity. *Materials Letters*, **2013**, 111, 188-191	3.3	40
142	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. *Nano Energy*, **2020**, 69, 104396	17.1	40
141	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. *Nature Communications*, **2020**, 11, 5700	17.4	40
140	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	17.1	39
139	Modification and enhancement of cryogenic quenching heat transfer by a nanoporous surface. *International Journal of Heat and Mass Transfer*, **2015**, 80, 636-643	4.9	39
138	Selective desorption of high-purity (6,5) SWCNTs from hydrogels through surfactant modulation. *Chemical Communications*, **2016**, 52, 2928-31	5.8	39
137	Atomic/molecular layer deposition for energy storage and conversion. *Chemical Society Reviews*, **2021**, 50, 3889-3956	58.5	39
136	Composite Nanostructure Construction on the Grain Surface of Li-Rich Layered Oxides. *Advanced Materials*, **2020**, 32, e1906070	24	38
135	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	13	38
134	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	17.1	38
133	Synthesis and properties of Li2SnO3/polyaniline nanocomposites as negative electrode material for lithium-ion batteries. *Applied Surface Science*, **2012**, 258, 9896-9901	6.7	37
132	Interface-assisted in-situ growth of halide electrolytes eliminating interfacial challenges of all-inorganic solid-state batteries. *Nano Energy*, **2020**, 76, 105015	17.1	36
131	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	6.7	36
130	A variational approach to nonlocal exciton–phonon coupling. *Journal of Chemical Physics*, **1997**, 106, 2728-2740	3.3	36

129	Ultrahigh-Capacity and Long-Life Lithium-Metal Batteries Enabled by Engineering Carbon Nanofiber-Stabilized Graphene Aerogel Film Host. *Small*, **2018**, 14, e1803310	11	36
128	An Air-Stable and Li-Metal-Compatible Glass-Ceramic Electrolyte enabling High-Performance All-Solid-State Li Metal Batteries. *Advanced Materials*, **2021**, 33, e2006577	24	36
127	Carbon-doped Li2SnO3/graphene as an anode material for lithium-ion batteries. *Ceramics International*, **2013**, 39, 1741-1747	5.1	35
126	Hollow Zn2SnO4 boxes wrapped with flexible graphene as anode materials for lithium batteries. *Electrochimica Acta*, **2014**, 120, 128-132	6.7	35
125	Self-healing electrostatic shield enabling uniform lithium deposition in all-solid-state lithium batteries. *Energy Storage Materials*, **2019**, 22, 194-199	19.4	34
124	Intense and wavelength-tunable photoluminescence from surface functionalized MgO nanocrystal clusters. *Journal of Materials Chemistry*, **2011**, 21, 7263		33
123	Superelastic, Macroporous Polystyrene-Mediated Graphene Aerogels for Active Pressure Sensing. *Chemistry - an Asian Journal*, **2016**, 11, 1071-5	4.5	32
122	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. *Angewandte Chemie*, **2019**, 131, 17210-17216	3.6	31
121	Dendrite-free and minimum volume change Li metal anode achieved by three-dimensional artificial interlayers. *Energy Storage Materials*, **2018**, 15, 415-421	19.4	31
120	Facile synthesis and performance of polypyrrole-coated hollow Zn2SnO4 boxes as anode materials for lithium-ion batteries. *Ceramics International*, **2014**, 40, 2359-2364	5.1	31
119	Hydrothermal synthesis of flower-like Zn2SnO4 composites and their performance as anode materials for lithium-ion batteries. *Ceramics International*, **2014**, 40, 8021-8025	5.1	31
118	Hydrothermal derived Li2SnO3/C composite as negative electrode materials for lithium-ion batteries. *Applied Surface Science*, **2012**, 258, 6923-6929	6.7	31
117	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	17.1	31
116	Interconnected Molybdenum Carbide-Based Nanoribbons for Highly Efficient and Ultrastable Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2017**, 9, 24608-24615	9.5	30
115	Atomic Layer Deposited Non-Noble Metal Oxide Catalyst for Sodium–Air Batteries: Tuning the Morphologies and Compositions of Discharge Product. *Advanced Functional Materials*, **2017**, 27, 1606662	15.6	30
114	Elastic and wearable ring-type supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 3217-3222	13	30
113	Botryoidalis hollow Zn2SnO4 boxes@graphene as anode materials for advanced lithium-ion batteries. *RSC Advances*, **2013**, 3, 23489	3.7	30
112	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. *Nature Communications*, **2021**, 12, 2647	17.4	30

111	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	13	29
110	On the Cycling Performance of Na-O2 Cells: Revealing the Impact of the Superoxide Crossover toward the Metallic Na Electrode. *Advanced Functional Materials*, **2018**, 28, 1801904	15.6	28
109	Graphene supported poly-pyrrole(PPY)/Li 2 SnO 3 ternary composites as anode materials for lithium ion batteries. *Ceramics International*, **2013**, 39, 6861-6866	5.1	28
108	Boiling and quenching heat transfer advancement by nanoscale surface modification. *Scientific Reports*, **2017**, 7, 6117	4.9	28
107	Unveiling the critical role of interfacial ionic conductivity in all-solid-state lithium batteries. *Nano Energy*, **2020**, 72, 104686	17.1	27
106	Temperature-Dependent Chemical and Physical Microstructure of Li Metal Anodes Revealed through Synchrotron-Based Imaging Techniques. *Advanced Materials*, **2020**, 32, e2002550	24	27
105	Preparation and application of hollow ZnFe2O4@PANI hybrids as high performance anode materials for lithium-ion batteries. *RSC Advances*, **2015**, 5, 107247-107253	3.7	27
104	Controlled synthesis of tin-doped indium oxide (ITO) nanowires. *Journal of Crystal Growth*, **2015**, 413, 31-36	1.6	27
103	Synthesis and properties of carbon-doped Li2SnO3 nanocomposite as cathode material for lithium-ion batteries. *Materials Letters*, **2012**, 71, 66-69	3.3	26
102	Supraparamagnetic quaternary nanocomposites of graphene@Fe3O4@SiO2@SnO2: Synthesis and enhanced electromagnetic absorption properties. *Materials Letters*, **2013**, 109, 146-150	3.3	26
101	Tuning ionic conductivity and electrode compatibility of Li3YBr6 for high-performance all solid-state Li batteries. *Nano Energy*, **2020**, 77, 105097	17.1	26
100	Polymer/Graphene Hybrids for Advanced Energy-Conversion and -Storage Materials. *Chemistry - an Asian Journal*, **2016**, 11, 1151-68	4.5	26
99	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. *Advanced Functional Materials*, **2020**, 30, 2001118	15.6	25
98	Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. *Nano Energy*, **2019**, 65, 103988	17.1	25
97	Hollow Zn2SnO4 boxes coated with N-doped carbon for advanced lithium-ion batteries. *Ceramics International*, **2014**, 40, 2275-2280	5.1	25
96	A Self-Healing Aqueous Lithium-Ion Battery. *Angewandte Chemie*, **2016**, 128, 14596-14600	3.6	25
95	Elongating the cycle life of lithium metal batteries in carbonate electrolyte with gradient solid electrolyte interphase layer. *Energy Storage Materials*, **2021**, 34, 241-249	19.4	25
94	Multi-functional nanowall arrays with unrestricted Li+ transport channels and an integrated conductive network for high-areal-capacity Li□ batteries. *Journal of Materials Chemistry A*, **2018**, 6, 22958-22965	13	25

93	Versatile origami micro-supercapacitors array as a wind energy harvester. *Journal of Materials Chemistry A*, **2018**, 6, 19750-19756	13	25
92	Suppressed dendrite formation realized by selective Li deposition in all-solid-state lithium batteries. *Energy Storage Materials*, **2020**, 27, 198-204	19.4	24
91	Making Fiber-Shaped Ni//Bi Battery Simultaneously with High Energy Density, Power Density, and Safety. *Advanced Functional Materials*, **2020**, 30, 1905971	15.6	24
90	Polypyrrole-Based Composite Materials for Electromagnetic Wave Absorption. *Polymer Reviews*, **2021**, 61, 646-687	14	24
89	Strongly Bound Sodium Dodecyl Sulfate Surrounding Single-Wall Carbon Nanotubes. *Langmuir*, **2017**, 33, 5006-5014	4	23
88	Sticky-note supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 3355-3360	13	22
87	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state Li–Se batteries. *Journal of Materials Chemistry A*, **2020**, 8, 278-286	13	22
86	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 5821-5826	16.4	22
85	Selective atomic layer deposition of RuOx catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. *Journal of Materials Chemistry A*, **2018**, 6, 24397-24406	13	22
84	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	13.1	21
83	Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. *Energy Storage Materials*, **2020**, 30, 238-249	19.4	21
82	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. *Advanced Energy Materials*, **2020**, 10, 2001139	21.8	21
81	Compact Assembly and Programmable Integration of Supercapacitors. *Advanced Materials*, **2020**, 32, e1907005	24	21
80	Large-Scale Spinning Approach to Engineering Knittable Hydrogel Fiber for Soft Robots. *ACS Nano*, **2020**, 14, 14929-14938	16.7	21
79	Li-CO2 Batteries Efficiently Working at Ultra-Low Temperatures. *Advanced Functional Materials*, **2020**, 30, 2001619	15.6	20
78	3D Printing of Free-Standing □2 Breathable□Air Electrodes for High-Capacity and Long-Life Na□2 Batteries. *Chemistry of Materials*, **2020**, 32, 3018-3027	9.6	20
77	PEO based polymer in plastic crystal electrolytes for room temperature high-voltage lithium metal batteries. *Nano Energy*, **2021**, 88, 106205	17.1	20
76	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. *ACS Nano*, **2021**,	16.7	19

75	A directly swallowable and ingestible micro-supercapacitor. *Journal of Materials Chemistry A*, **2020**, 8, 4055-4061	13	18
74	Aligning the binder effect on sodium□air batteries. *Journal of Materials Chemistry A*, **2018**, 6, 1473-1484	13	18
73	Preparation of Li2SnO3 and its application in lithium-ion batteries. *Surface and Interface Analysis*, **2013**, 45, 1297-1303	1.5	18
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