Jun Liu

List of Publications by Citations

230 papers	23,301 citations	76 h-index	150 g-index
246 ext. papers	27,294 ext. citations	10.9 avg, IF	7.16 L-index

#	Paper	IF	Citations
230	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. *Nature Energy*, **2016**, 1,	62.3	1461
229	Dendrite-free lithium deposition via self-healing electrostatic shield mechanism. *Journal of the American Chemical Society*, **2013**, 135, 4450-6	16.4	1374
228	Ternary self-assembly of ordered metal oxide-graphene nanocomposites for electrochemical energy storage. *ACS Nano*, **2010**, 4, 1587-95	16.7	731
227	Water-Lubricated Intercalation in V O hH O for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. *Advanced Materials*, **2018**, 30, 1703725	24	725
226	Mesoporous silicon sponge as an anti-pulverization structure for high-performance lithium-ion battery anodes. *Nature Communications*, **2014**, 5, 4105	17.4	646
225	Reversible sodium ion insertion in single crystalline manganese oxide nanowires with long cycle life. *Advanced Materials*, **2011**, 23, 3155-60	24	581
224	Lewis acid-base interactions between polysulfides and metal organic framework in lithium sulfur batteries. *Nano Letters*, **2014**, 14, 2345-52	11.5	529
223	Double-shelled nanocapsules of V2O5-based composites as high-performance anode and cathode materials for Li ion batteries. *Journal of the American Chemical Society*, **2009**, 131, 12086-7	16.4	506
222	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. *Nature Energy*, **2018**, 3, 739-746	62.3	466
221	Sodium Ion Stabilized Vanadium Oxide Nanowire Cathode for High-Performance Zinc-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702463	21.8	454
220	High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes. *Advanced Materials*, **2018**, 30, e1706102	24	452
219	High-performance LiNi0.5Mn1.5O4 spinel controlled by Mn3+ concentration and site disorder. *Advanced Materials*, **2012**, 24, 2109-16	24	371
218	Self-supported Li4Ti5O12-C nanotube arrays as high-rate and long-life anode materials for flexible Li-ion batteries. *Nano Letters*, **2014**, 14, 2597-603	11.5	365
217	Uniform yolk shell Sn4P3@C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. *Energy and Environmental Science*, **2015**, 8, 3531-3538	35.4	350
216	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. *Chemistry of Materials*, **2011**, 23, 1079-1081	9.6	342
215	Oriented nanostructures for energy conversion and storage. *ChemSusChem*, **2008**, 1, 676-97	8.3	333
214	Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. *Physical Chemistry Chemical Physics*, **2011**, 13, 7660-5	3.6	324

213	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. *Nano Letters*, **2017**, 17, 2034-2042	11.5	306
212	Recent developments in the chemical synthesis of inorganic porous capsules. *Journal of Materials Chemistry*, **2009**, 19, 6073		303
211	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. *Journal of Materials Chemistry*, **2010**, 20, 9193		293
210	Thermal Oxidation Strategy towards Porous Metal Oxide Hollow Architectures. *Advanced Materials*, **2008**, 20, 2622-2627	24	281
209	MOF-Derived Hollow Co9 S8 Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. *Small*, **2016**, 12, 2354-64	11	274
208	Manipulating surface reactions in lithium-sulphur batteries using hybrid anode structures. *Nature Communications*, **2014**, 5, 3015	17.4	267
207	Low-Defect and Low-Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. *Advanced Energy Materials*, **2018**, 8, 1703238	21.8	262
206	Non-encapsulation approach for high-performance Li–S batteries through controlled nucleation and growth. *Nature Energy*, **2017**, 2, 813-820	62.3	256
205	In situ transmission electron microscopy observation of microstructure and phase evolution in a SnO2 nanowire during lithium intercalation. *Nano Letters*, **2011**, 11, 1874-80	11.5	253
204	Stabilizing the Nanostructure of SnO Anodes by Transition Metals: A Route to Achieve High Initial Coulombic Efficiency and Stable Capacities for Lithium Storage. *Advanced Materials*, **2017**, 29, 1605006	24	246
203	A General Metal-Organic Framework (MOF)-Derived Selenidation Strategy for In Situ Carbon-Encapsulated Metal Selenides as High-Rate Anodes for Na-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1707573	15.6	239
202	Electrospun Na3V2(PO4)3/C nanofibers as stable cathode materials for sodium-ion batteries. *Nanoscale*, **2014**, 6, 5081-6	7.7	235
201	Facile synthesis of highly porous Ni-Sn intermetallic microcages with excellent electrochemical performance for lithium and sodium storage. *Nano Letters*, **2014**, 14, 6387-92	11.5	227
200	MoS2 nanosheets with expanded interlayer spacing for rechargeable aqueous Zn-ion batteries. *Energy Storage Materials*, **2019**, 19, 94-101	19.4	227
199	In Situ Generation of Few-Layer Graphene Coatings on SnO2-SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage. *Advanced Energy Materials*, **2012**, 2, 95-102	21.8	216
198	Synthesis of Mo2N nanolayer coated MoO2 hollow nanostructures as high-performance anode materials for lithium-ion batteries. *Energy and Environmental Science*, **2013**, 6, 2691	35.4	215
197	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2015**, 54, 9632-6	16.4	214
196	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. *ACS Nano*, **2017**, 11, 9033-9040	16.7	200

195	Conflicting roles of nickel in controlling cathode performance in lithium ion batteries. *Nano Letters*, **2012**, 12, 5186-91	11.5	199
194	Carbon-encapsulated pyrite as stable and earth-abundant high energy cathode material for rechargeable lithium batteries. *Advanced Materials*, **2014**, 26, 6025-30	24	192
193	Anisotropic Co3O4 porous nanocapsules toward high-capacity Li-ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 1506		187
192	MOFs nanosheets derived porous metal oxide-coated three-dimensional substrates for lithium-ion battery applications. *Nano Energy*, **2016**, 26, 57-65	17.1	187
191	In Situ Synthesis of MnS Hollow Microspheres on Reduced Graphene Oxide Sheets as High-Capacity and Long-Life Anodes for Li- and Na-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 20957-64	9.5	179
190	Ge/C nanowires as high-capacity and long-life anode materials for Li-ion batteries. *ACS Nano*, **2014**, 8, 7051-9	16.7	177
189	V2O5 Polysulfide Anion Barrier for Long-Lived Li□ Batteries. *Chemistry of Materials*, **2014**, 26, 3403-3410	9.6	176
188	Hollow Nanostructured Anode Materials for Li-Ion Batteries. *Nanoscale Research Letters*, **2010**, 5, 1525-34	5	166
187	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. *Advanced Materials* , **2019**, 31, e1900567	24	163
186	Dense core-shell structured SnO2/C composites as high performance anodes for lithium ion batteries. *Chemical Communications*, **2010**, 46, 1437-9	5.8	162
185	Tube Formation in Nanoscale Materials. *Nanoscale Research Letters*, **2008**, 3, 473-80	5	154
184	Uniform Hierarchical Fe3O4@Polypyrrole Nanocages for Superior Lithium Ion Battery Anodes. *Advanced Energy Materials*, **2016**, 6, 1600256	21.8	152
183	Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium-Sulfur Batteries. *Advanced Materials*, **2019**, 31, e1902228	24	149
182	Conductive rigid skeleton supported silicon as high-performance Li-ion battery anodes. *Nano Letters*, **2012**, 12, 4124-30	11.5	146
181	Rapid and scalable route to CuS biosensors: a microwave-assisted Cu-complex transformation into CuS nanotubes for ultrasensitive nonenzymatic glucose sensor. *Journal of Materials Chemistry*, **2011**, 21, 223-228		142
180	Visualization of Charge Distribution in a Lithium Battery Electrode. *Journal of Physical Chemistry Letters*, **2010**, 1, 2120-2123	6.4	140
179	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. *ACS Energy Letters*, **2019**, 4, 2995-3001	20.1	138
178	Three-dimensionally interconnected nickel□ntimony intermetallic hollow nanospheres as anode material for high-rate sodium-ion batteries. *Nano Energy*, **2015**, 16, 389-398	17.1	137

177	Nanoporous spherical LiFePO4 for high performance cathodes. *Energy and Environmental Science*, **2011**, 4, 885	35.4	137
176	Template-free solvothermal synthesis of yolk-shell V2O5 microspheres as cathode materials for Li-ion batteries. *Chemical Communications*, **2011**, 47, 10380-2	5.8	136
175	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithium-Sulfur Batteries. *ACS Nano*, **2019**, 13, 8986-8996	16.7	129
174	Facile synthesis of NiCo2O4 nanorod arrays on Cu conductive substrates as superior anode materials for high-rate Li-ion batteries. *CrystEngComm*, **2013**, 15, 1578	3.3	123
173	Phase transformation and lithiation effect on electronic structure of Li(x)FePO4: an in-depth study by soft X-ray and simulations. *Journal of the American Chemical Society*, **2012**, 134, 13708-15	16.4	121
172	Inhibiting grain coarsening and inducing oxygen vacancies: the roles of Mn in achieving a highly reversible conversion reaction and a long life SnO2Mn graphite ternary anode. *Energy and Environmental Science*, **2017**, 10, 2017-2029	35.4	120
171	Sandwich-like SnS/Polypyrrole Ultrathin Nanosheets as High-Performance Anode Materials for Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 8502-10	9.5	115
170	Yolk-Shell Sn@C Eggette-like Nanostructure: Application in Lithium-Ion and Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 19438-45	9.5	109
169	Nanosheet-structured LiV3O8 with high capacity and excellent stability for high energy lithium batteries. *Journal of Materials Chemistry*, **2011**, 21, 10077		108
168	Design of porous Si/C graphite electrodes with long cycle stability and controlled swelling. *Energy and Environmental Science*, **2017**, 10, 1427-1434	35.4	103
167	One-pot synthesis of mesoporous interconnected carbon-encapsulated Fe3O4 nanospheres as superior anodes for Li-ion batteries. *RSC Advances*, **2012**, 2, 2262	3.7	99
166	Metal-Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 2516-2525	9.5	95
165	Template free synthesis of LiV3O8 nanorods as a cathode material for high-rate secondary lithium batteries. *Journal of Materials Chemistry*, **2011**, 21, 1153-1161		94
164	Hierarchical MoO2/N-doped carbon heteronanowires with high rate and improved long-term performance for lithium-ion batteries. *Journal of Power Sources*, **2016**, 306, 78-84	8.9	92
163	Solvothermal synthesis of CuS semiconductor hollow spheres based on a bubble template route. *Journal of Crystal Growth*, **2009**, 311, 500-503	1.6	90
162	Regulating Lithium Nucleation and Deposition via MOF-Derived Co@C-Modified Carbon Cloth for Stable Li Metal Anode. *Advanced Functional Materials*, **2020**, 30, 1909159	15.6	87
161	In situ reduction and coating of SnS2 nanobelts for free-standing SnS@polypyrrole-nanobelt/carbon-nanotube paper electrodes with superior Li-ion storage. *Journal of Materials Chemistry A*, **2015**, 3, 5259-5265	13	85
160	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. *ACS Nano*, **2017**, 11, 5120-5129	16.7	84

159	Critical silicon-anode size for averting lithiation-induced mechanical failure of lithium-ion batteries. *RSC Advances*, **2013**, 3, 7398	3.7	84
158	Free-standing V2O5 electrode for flexible lithium ion batteries. *Electrochemistry Communications*, **2011**, 13, 383-386	5.1	84
157	Sn-based nanomaterials converted from SnS nanobelts: Facile synthesis, characterizations, optical properties and energy storage performances. *Electrochimica Acta*, **2010**, 56, 243-250	6.7	82
156	Hierarchical MoO2/Mo2C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 19987-93	9.5	78
155	Enhancement of F-doping on the electrochemical behavior of carbon-coated LiFePO4 nanoparticles prepared by hydrothermal route. *Electrochimica Acta*, **2011**, 56, 8833-8838	6.7	78
154	Single-crystalline nanoporous Nb2O5 nanotubes. *Nanoscale Research Letters*, **2011**, 6, 138	5	75
153	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries. *Small*, **2018**, 14, e1800793	11	73
152	Mild and cost-effective synthesis of iron fluoride–graphene nanocomposites for high-rate Li-ion battery cathodes. *Journal of Materials Chemistry A*, **2013**, 1, 1969-1975	13	72
151	Tiny Li4Ti5O12 nanoparticles embedded in carbon nanofibers as high-capacity and long-life anode materials for both Li-ion and Na-ion batteries. *Physical Chemistry Chemical Physics*, **2013**, 15, 20813-8	3.6	71
150	General strategy for one-pot synthesis of metal sulfide hollow spheres with enhanced photocatalytic activity. *Applied Catalysis B: Environmental*, **2012**, 125, 180-188	21.8	69
149	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithium-Ion Batteries. *Angewandte Chemie*, **2015**, 127, 9768-9772	3.6	68
148	High-performance PVDF-HFP based gel polymer electrolyte with a safe solvent in Li metal polymer battery. *Journal of Energy Chemistry*, **2020**, 49, 80-88	12	67
147	Self-Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Long-Life Lithium-Ion Batteries. *Chemistry - A European Journal*, **2017**, 23, 5198-5204	4.8	65
146	Facile Synthesis of Na0.33V2O5 Nanosheet-Graphene Hybrids as Ultrahigh Performance Cathode Materials for Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 17433-40	9.5	65
145	Unveiling critical size of coarsened Sn nanograins for achieving high round-trip efficiency of reversible conversion reaction in lithiated SnO2 nanocrystals. *Nano Energy*, **2018**, 45, 255-265	17.1	65
144	Self-assembled porous hierarchical-like CoO@C microsheets transformed from inorganic–organic precursors and their lithium-ion battery application. *CrystEngComm*, **2012**, 14, 2669	3.3	63
143	Gram-scale and template-free synthesis of ultralong tin disulfide nanobelts and their lithium ion storage performances. *Journal of Materials Chemistry A*, **2013**, 1, 1117-1122	13	60
142	Cation-Induced Coiling of Vanadium Pentoxide Nanobelts. *Nanoscale Research Letters*, **2010**, 5, 1619-26	5	59

141	Li4Ti5O12 nanosheets as high-rate and long-life anode materials for sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 24446-24452	13	57
140	Restricting the Solubility of Polysulfides in Li-S Batteries Via Electrolyte Salt Selection. *Advanced Energy Materials*, **2016**, 6, 1600160	21.8	57
139	A scalable ternary SnO2□Co□ composite as a high initial coulombic efficiency, large capacity and long lifetime anode for lithium ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 7206-7220	13	56
138	Recent Progress in Organic-Inorganic Composite Solid Electrolytes for All-Solid-State Lithium Batteries. *Chemistry - A European Journal*, **2020**, 26, 1720-1736	4.8	54
137	Crystallization and functionality of inorganic materials. *Materials Research Bulletin*, **2012**, 47, 2838-2842	5.1	50
136	MOF-derived hollow TiO2@C/FeTiO3 nanoparticles as photoanodes with enhanced full spectrum light PEC activities. *Applied Catalysis B: Environmental*, **2019**, 250, 369-381	21.8	50
135	Enhancing the electrochemical performance of the LiMn(2)O(4) hollow microsphere cathode with a LiNi(0.5)Mn(1.5)O(4) coated layer. *Chemistry - A European Journal*, **2014**, 20, 824-30	4.8	48
134	Transition-metal redox evolution in LiNi0.5Mn0.3Co0.2O2 electrodes at high potentials. *Journal of Power Sources*, **2017**, 360, 294-300	8.9	47
133	Why LiFePO4 is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. *Physical Chemistry Chemical Physics*, **2015**, 17, 26369-77	3.6	46
132	Facile synthesis of transition-metal oxide nanocrystals embedded in hollow carbon microspheres for high-rate lithium-ion-battery anodes. *Chemistry - A European Journal*, **2013**, 19, 9811-6	4.8	46
131	MoS2 Nanosheets with Conformal Carbon Coating as Stable Anode Materials for Sodium-Ion Batteries. *Electrochimica Acta*, **2017**, 254, 172-180	6.7	44
130	Facile synthesis of P2-type Na0.4Mn0.54Co0.46O2 as a high capacity cathode material for sodium-ion batteries. *RSC Advances*, **2015**, 5, 51454-51460	3.7	44
129	Iron fluoride hollow porous microspheres: facile solution-phase synthesis and their application for Li-ion battery cathodes. *Chemistry - A European Journal*, **2014**, 20, 5815-20	4.8	44
128	C@MoS2@PPy sandwich-like nanotube arrays as an ultrastable and high-rate flexible anode for Li/Na-ion batteries. *Energy Storage Materials*, **2018**, 14, 118-128	19.4	43
127	Solvothermal Synthesis of Uniform Co3O4/C Hollow Quasi-Nanospheres for Enhanced Lithium Ion Intercalation Applications. *European Journal of Inorganic Chemistry*, **2012**, 2012, 3825-3829	2.3	43
126	Rational synthesis of ternary FeS@TiO2@C nanotubes as anode for superior Na-ion batteries. *Chemical Engineering Journal*, **2019**, 359, 765-774	14.7	43
125	Rational synthesis of Li4Ti5O12/N-C nanotube arrays as advanced high-rate electrodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 3857-3863	13	42
124	A flexible composite solid electrolyte with a highly stable interphase for dendrite-free and durable all-solid-state lithium metal batteries. *Journal of Materials Chemistry A*, **2020**, 8, 18043-18054	13	38

123	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. *Electrochimica Acta*, **2019**, 312, 224-233	6.7	37
122	Hollow bean-pod-like SiO2-supported-SnO2/C nanocomposites for durable lithium and sodium storage. *Journal of Materials Chemistry A*, **2017**, 5, 1629-1636	13	36
121	Facile synthesis of self-supported Mn3O4@C nanotube arrays constituting an ultrastable and high-rate anode for flexible Li-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 8555-8565	13	35
120	Compositionally tuned NixSn alloys as anode materials for lithium-ion and sodium-ion batteries with a high pseudocapacitive contribution. *Electrochimica Acta*, **2019**, 304, 246-254	6.7	35
119	Recent Progress of P2-Type Layered Transition-Metal Oxide Cathodes for Sodium-Ion Batteries. *Chemistry - A European Journal*, **2020**, 26, 7747-7766	4.8	35
118	A ZnGeP2/C anode for lithium-ion and sodium-ion batteries. *Electrochemistry Communications*, **2017**, 77, 85-88	5.1	33
117	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O3-Type Cathode NaNiMnTiCo O for Sodium-Ion Storage at High Voltage. *ACS Applied Materials & Interfaces*, **2019**, 11, 7906-7913	9.5	33
116	The importance of solid electrolyte interphase formation for long cycle stability full-cell Na-ion batteries. *Nano Energy*, **2016**, 27, 664-672	17.1	33
115	Nanoconfined Oxidation Synthesis of N-Doped Carbon Hollow Spheres and MnO Encapsulated Sulfur Cathode for Superior Li-S Batteries. *Chemistry - A European Journal*, **2018**, 24, 4573-4582	4.8	33
114	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Li-S Batteries. *Small*, **2020**, 16, e1906634	11	32
113	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. *Chemical Engineering Journal*, **2020**, 387, 124061	14.7	31
112	Electrospun Spinel LiNi Mn O Hierarchical Nanofibers as 5 V Cathode Materials for Lithium-Ion Batteries. *ChemPlusChem*, **2013**, 78, 636-641	2.8	31
111	Cathodes for Aqueous Zn-Ion Batteries: Materials, Mechanisms, and Kinetics. *Chemistry - A European Journal*, **2021**, 27, 830-860	4.8	31
110	Amorphous FeF3/C nanocomposite cathode derived from metal□rganic frameworks for sodium ion batteries. *RSC Advances*, **2017**, 7, 24004-24010	3.7	30
109	From chemistry to mechanics: bulk modulus evolution of Li-Si and Li-Sn alloys via the metallic electronegativity scale. *Physical Chemistry Chemical Physics*, **2013**, 15, 17658-63	3.6	29
108	Wheat straw carbon matrix wrapped sulfur composites as a superior cathode for Li□ batteries. *RSC Advances*, **2015**, 5, 100089-100096	3.7	29
107	Recent progress of flexible sulfur cathode based on carbon host for lithium-sulfur batteries. *Journal of Materials Science and Technology*, **2020**, 55, 56-72	9.1	29
106	Unraveling the Catalytic Activity of Fe□Based Compounds toward Li2Sx in Li□ Chemical System from d□ Bands. *Advanced Energy Materials*, **2021**, 11, 2100673	21.8	29

105	Effects of TiO2 phase on the performance of Li4Ti5O12 anode for lithium-ion batteries. *Journal of Alloys and Compounds*, **2016**, 689, 812-819	5.7	29
104	Effects of Anion Mobility on Electrochemical Behaviors of Lithium–Sulfur Batteries. *Chemistry of Materials*, **2017**, 29, 9023-9029	9.6	28
103	One-pot facile synthesis of hierarchical hollow microspheres constructed with MnO2 nanotubes and their application in lithium storage and water treatment. *RSC Advances*, **2013**, 3, 25937	3.7	28
102	Facile synthesis of layered LiV3O8 hollow nanospheres as superior cathode materials for high-rate Li-ion batteries. *RSC Advances*, **2012**, 2, 10470	3.7	28
101	Facile synthesis of three-dimensional porous interconnected carbon matrix embedded with Sb nanoparticles as superior anode for Na-ion batteries. *Chemical Engineering Journal*, **2019**, 374, 502-510	14.7	27
100	Facile synthesis of uniform MoO2/Mo2CTx heteromicrospheres as high-performance anode materials for lithium-ion batteries. *Journal of Power Sources*, **2017**, 363, 392-403	8.9	26
99	A nanorod-like Ni-rich layered cathode with enhanced Li+ diffusion pathways for high-performance lithium-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 2830-2839	13	26
98	Co-Sn Nanocrystalline Solid Solutions as Anode Materials in Lithium-Ion Batteries with High Pseudocapacitive Contribution. *ChemSusChem*, **2019**, 12, 1451-1458	8.3	25
97	Highly reversible conversion reaction in Sn2Fe@SiOx nanocomposite: A high initial Coulombic efficiency and long lifetime anode for lithium storage. *Energy Storage Materials*, **2018**, 13, 257-266	19.4	25
96	Solvothermal synthesis of copper sulfide semiconductor micro/nanostructures. *Materials Research Bulletin*, **2010**, 45, 309-313	5.1	25
95	An atomic-confined-space separator for high performance lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2020**, 8, 1896-1903	13	25
94	Nano-spatially confined and interface-controlled lithiation–delithiation in an in situ formed (SnS–SnS2)/FLG composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 15320-15332	13	24
93	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 4414-4422	9.5	24
92	Solvent-Free Method Prepared a Sandwich-like Nanofibrous Membrane-Reinforced Polymer Electrolyte for High-Performance All-Solid-State Lithium Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 21586-21595	9.5	24
91	Deciphering the Oxygen Absorption Pre-edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. *Energy and Environmental Materials*, **2021**, 4, 246-254	13	24
90	Enabling a highly reversible conversion reaction in a lithiated nano-SnO2 film coated with Al2O3 by atomic layer deposition. *Journal of Materials Chemistry A*, **2018**, 6, 4374-4385	13	23
89	Rational synthesis of three-dimensional porous ZnCo2O4 film with nanowire walls via simple hydrothermal method. *Materials Letters*, **2014**, 115, 208-211	3.3	23
88	Nano Structures via Chemistry. *Nanoscience and Nanotechnology Letters*, **2011**, 3, 337-364	0.8	23

87	A nanorod FeP@phosphorus-doped carbon composite for high-performance lithium-ion batteries. *Journal of Alloys and Compounds*, **2018**, 763, 296-304	5.7	23
86	Shape-controlled hydrothermal synthesis of ferroelectric Bi4Ti3O12 nanostructures. *CrystEngComm*, **2013**, 15, 1397	3.3	22
85	Template Route to Chemically Engineering Cavities at Nanoscale: A Case Study of Zn(OH)(2) Template. *Nanoscale Research Letters*, **2010**, 5, 1779-1787	5	22
84	MoS2/cotton-derived carbon fibers with enhanced cyclic performance for sodium-ion batteries. *Applied Surface Science*, **2017**, 413, 169-174	6.7	21
83	In situ carbon-coating and Ostwald ripening-based route for hollow Ni3S4@C spheres with superior Li-ion storage performances. *RSC Advances*, **2016**, 6, 101752-101759	3.7	21
82	Enhanced cyclic performance of SnO2-CuO-graphite nano-sheets as anode for Li-ion battery. *Materials Letters*, **2016**, 185, 9-12	3.3	21
81	Hollow spheres of Mo2C@C as synergistically confining sulfur host for superior Li□S battery cathode. *Electrochimica Acta*, **2020**, 332, 135482	6.7	20
80	Facile Synthesis of Carbon-Encapsulated Li4Ti5O12@C Hollow Microspheres as Superior Anode Materials for Li-Ion Batteries. *European Journal of Inorganic Chemistry*, **2014**, 2014, 2073-2079	2.3	18
79	Solution-based route to semiconductor film: Well-aligned ZnSe nanobelt arrays. *Thin Solid Films*, **2009**, 517, 4814-4817	2.2	18
78	Interface engineering for composite cathodes in sulfide-based all-solid-state lithium batteries. *Journal of Energy Chemistry*, **2021**, 60, 32-60	12	18
77	Adding Metal Carbides to Suppress the Crystalline LiSi Formation: A Route toward Cycling Durable Si-Based Anodes for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 38727-38736	9.5	17
76	Subzero temperature promotes stable lithium storage in SnO2. *Energy Storage Materials*, **2021**, 36, 242-250	19.4	17
75	An EOG-based wheelchair robotic arm system for assisting patients with severe spinal cord injuries. *Journal of Neural Engineering*, **2019**, 16, 026021	5	17
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73	Improved coulombic efficiency and cycleability of SnO2□Cu□graphite composite anode with dual scale embedding structure. *RSC Advances*, **2016**, 6, 13384-13391	3.7	16
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