Jun Liu

List of Publications by Year
in descending order

243	31,041	5261 83	4641 170
papers	citations	h-index	g-index

246	246	246	24059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. Nature Energy, 2016, 1, .	19.8	2,186
2	Dendrite-Free Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. Journal of the American Chemical Society, 2013, 135, 4450-4456.	6.6	1,736
3	Mesoporous silicon sponge as an anti-pulverization structure for high-performance lithium-ion battery anodes. Nature Communications, 2014, 5, 4105.	5.8	1,160
4	Waterâ€Lubricated Intercalation in V₂O₅Â·nH₂O for Highâ€Capacity and Highâ€Rate Aqueous Rechargeable Zinc Batteries. Advanced Materials, 2018, 30, 1703725.	11.1	1,084
5	Ternary Self-Assembly of Ordered Metal Oxideâ€"Graphene Nanocomposites for Electrochemical Energy Storage. ACS Nano, 2010, 4, 1587-1595.	7.3	795
6	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. Nature Energy, 2018, 3, 739-746.	19.8	767
7	Highâ€Voltage Lithiumâ€Metal Batteries Enabled by Localized Highâ€Concentration Electrolytes. Advanced Materials, 2018, 30, e1706102.	11.1	761
8	Sodium Ion Stabilized Vanadium Oxide Nanowire Cathode for Highâ€Performance Zincâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1702463.	10.2	650
9	Reversible Sodium Ion Insertion in Single Crystalline Manganese Oxide Nanowires with Long Cycle Life. Advanced Materials, 2011, 23, 3155-3160.	11.1	638
10	Lewis Acidâ€"Base Interactions between Polysulfides and Metal Organic Framework in Lithium Sulfur Batteries. Nano Letters, 2014, 14, 2345-2352.	4.5	623
11	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, 12086-12087.	6.6	546
12	Highâ€Performance LiNi_{0.5}Mn_{1.5}O₄ Spinel Controlled by Mn³⁺ Concentration and Site Disorder. Advanced Materials, 2012, 24, 2109-2116.	11.1	434
13	Lowâ€Defect and Lowâ€Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. Advanced Energy Materials, 2018, 8, 1703238.	10.2	414
14	Uniform yolkâ€"shell Sn₄P₃@C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. Energy and Environmental Science, 2015, 8, 3531-3538.	15.6	401
15	Self-Supported Li₄Ti₅O₁₂â€"C Nanotube Arrays as High-Rate and Long-Life Anode Materials for Flexible Li-Ion Batteries. Nano Letters, 2014, 14, 2597-2603.	4.5	397
16	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolkâ€"Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. Nano Letters, 2017, 17, 2034-2042.	4.5	386
17	Oriented Nanostructures for Energy Conversion and Storage. ChemSusChem, 2008, 1, 676-697.	3.6	367
18	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. Chemistry of Materials, 2011, 23, 1079-1081.	3.2	366

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19	Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. Physical Chemistry Chemical Physics, 2011, 13, 7660.	1.3	347
20	Non-encapsulation approach for high-performance Liâ€“S batteries through controlled nucleation and growth. Nature Energy, 2017, 2, 813-820.	19.8	326
21	A General Metalâ€Organic Framework (MOF)â€Derived Selenidation Strategy for In Situ Carbonâ€Encapsulated Metal Selenides as Highâ€Rate Anodes for Naâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1707573.	7.8	325
22	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. Journal of Materials Chemistry, 2010, 20, 9193.	6.7	316
23	Thermal Oxidation Strategy towards Porous Metal Oxide Hollow Architectures. Advanced Materials, 2008, 20, 2622-2627.	11.1	315
24	Recent developments in the chemical synthesis of inorganic porous capsules. Journal of Materials Chemistry, 2009, 19, 6073.	6.7	314
25	MOFâ€Derived Hollow Co₉S₈ Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Liâ€Ion Storage. Small, 2016, 12, 2354-2364.	5.2	306
26	Stabilizing the Nanostructure of SnO₂ Anodes by Transition Metals: A Route to Achieve High Initial Coulombic Efficiency and Stable Capacities for Lithium Storage. Advanced Materials, 2017, 29, 1605006.	11.1	306
27	Joint Charge Storage for Highâ€Rate Aqueous Zincâ€“Manganese Dioxide Batteries. Advanced Materials, 2019, 31, e1900567.	11.1	299
28	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. ACS Energy Letters, 2019, 4, 2995-3001.	8.8	297
29	Manipulating surface reactions in lithiumâ€“sulphur batteries using hybrid anode structures. Nature Communications, 2014, 5, 3015.	5.8	290
30	In Situ Transmission Electron Microscopy Observation of Microstructure and Phase Evolution in a SnO₂Nanowire during Lithium Intercalation. Nano Letters, 2011, 11, 1874-1880.	4.5	266
31	Electrospun Na3V2(PO4)3/C nanofibers as stable cathode materials for sodium-ion batteries. Nanoscale, 2014, 6, 5081.	2.8	266
32	Facile Synthesis of Highly Porous Niâ€“Sn Intermetallic Microcages with Excellent Electrochemical Performance for Lithium and Sodium Storage. Nano Letters, 2014, 14, 6387-6392.	4.5	257
33	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. ACS Nano, 2017, 11, 9033-9040.	7.3	247
34	Synthesis of Mo2N nanolayer coated MoO2 hollow nanostructures as high-performance anode materials for lithium-ion batteries. Energy and Environmental Science, 2013, 6, 2691.	15.6	246
35	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 9632-9636.	7.2	245
36	In Situ Generation of Fewâ€Layer Graphene Coatings on SnO₂â€SiC Coreâ€Shell Nanoparticles for Highâ€Performance Lithiumâ€Ion Storage. Advanced Energy Materials, 2012, 2, 95-102.	10.2	233

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37	Conflicting Roles of Nickel in Controlling Cathode Performance in Lithium Ion Batteries. Nano Letters, 2012, 12, 5186-5191.	4.5	231
38	MOFs nanosheets derived porous metal oxide-coated three-dimensional substrates for lithium-ion battery applications. Nano Energy, 2016, 26, 57-65.	8.2	224
39	Selfâ€Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Materials, 2019, 31, e1902228.	11.1	216
40	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithiumâ€“Sulfur Batteries. ACS Nano, 2019, 13, 8986-8996.	7.3	215
41	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, 20957-20964.	4.0	210
42	V₂O₅ Polysulfide Anion Barrier for Long-Lived Liâ€“S Batteries. Chemistry of Materials, 2014, 26, 3403-3410.	3.2	202
43	Advances in the Development of Singleâ€Atom Catalysts for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2200102.	11.1	202
44	Carbonâ€Encapsulated Pyrite as Stable and Earthâ€Abundant High Energy Cathode Material for Rechargeable Lithium Batteries. Advanced Materials, 2014, 26, 6025-6030.	11.1	201
45	Ge/C Nanowires as High-Capacity and Long-Life Anode Materials for Li-Ion Batteries. ACS Nano, 2014, 8, 7051-7059.	7.3	198
46	Anisotropic Co3O4 porous nanocapsules toward high-capacity Li-ion batteries. Journal of Materials Chemistry, 2010, 20, 1506.	6.7	193
47	Uniform Hierarchical Fe₃O₄@Polypyrrole Nanocages for Superior Lithium Ion Battery Anodes. Advanced Energy Materials, 2016, 6, 1600256.	10.2	184
48	Hollow Nanostructured Anode Materials for Li-Ion Batteries. Nanoscale Research Letters, 2010, 5, 1525-1534.	3.1	177
49	Regulating Lithium Nucleation and Deposition via MOFâ€Derived Co@Câ€Modified Carbon Cloth for Stable Li Metal Anode. Advanced Functional Materials, 2020, 30, 1909159.	7.8	170
50	Dense coreâ€“shell structured SnO2/C composites as high performance anodes for lithium ion batteries. Chemical Communications, 2010, 46, 1437.	2.2	169
51	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.	6.7	162
52	Conductive Rigid Skeleton Supported Silicon as High-Performance Li-Ion Battery Anodes. Nano Letters, 2012, 12, 4124-4130.	4.5	160
53	Tube Formation in Nanoscale Materials. Nanoscale Research Letters, 2008, 3, 473-80.	3.1	156
54	Visualization of Charge Distribution in a Lithium Battery Electrode. Journal of Physical Chemistry Letters, 2010, 1, 2120-2123.	2.1	155

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55	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.	7.1	155
56	Inhibiting grain coarsening and inducing oxygen vacancies: the roles of Mn in achieving a highly reversible conversion reaction and a long life SnO₂â€“Mnâ€“graphite ternary anode. Energy and Environmental Science, 2017, 10, 2017-2029.	15.6	152
57	Nanoporous spherical LiFePO4 for high performance cathodes. Energy and Environmental Science, 2011, 4, 885.	15.6	151
58	Three-dimensionally interconnected nickelâ€“antimony intermetallic hollow nanospheres as anode material for high-rate sodium-ion batteries. Nano Energy, 2015, 16, 389-398.	8.2	150
59	Template-free solvothermal synthesis of yolkâ€“shell V2O5 microspheres as cathode materials for Li-ion batteries. Chemical Communications, 2011, 47, 10380.	2.2	141
60	Design of porous Si/Câ€“graphite electrodes with long cycle stability and controlled swelling. Energy and Environmental Science, 2017, 10, 1427-1434.	15.6	140
61	Phase Transformation and Lithiation Effect on Electronic Structure of Li_xFePO₄: An In-Depth Study by Soft X-ray and Simulations. Journal of the American Chemical Society, 2012, 134, 13708-13715.	6.6	136
62	Sandwich-like SnS/Polypyrrole Ultrathin Nanosheets as High-Performance Anode Materials for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 8502-8510.	4.0	133
63	Yolkâ€“Shell Sn@C Eggette-like Nanostructure: Application in Lithium-Ion and Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 19438-19445.	4.0	129
64	Facile synthesis of NiCo2O4 nanorod arrays on Cu conductive substrates as superior anode materials for high-rate Li-ion batteries. CrystEngComm, 2013, 15, 1578.	1.3	125
65	Metalâ€“Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 2516-2525.	4.0	116
66	Nanosheet-structured LiV3O8 with high capacity and excellent stability for high energy lithium batteries. Journal of Materials Chemistry, 2011, 21, 10077.	6.7	112
67	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.	4.0	112
68	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. ACS Nano, 2017, 11, 5120-5129.	7.3	109
69	Template free synthesis of LiV₃O₈nanorods as a cathode material for high-rate secondary lithium batteries. Journal of Materials Chemistry, 2011, 21, 1153-1161.	6.7	105
70	One-pot synthesis of mesoporous interconnected carbon-encapsulated Fe3O4 nanospheres as superior anodes for Li-ion batteries. RSC Advances, 2012, 2, 2262.	1.7	103
71	Critical silicon-anode size for averting lithiation-induced mechanical failure of lithium-ion batteries. RSC Advances, 2013, 3, 7398.	1.7	101
72	Recent Progress in Organicâ€“Inorganic Composite Solid Electrolytes for Allâ€Solidâ€State Lithium Batteries. Chemistry - A European Journal, 2020, 26, 1720-1736.	1.7	100

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73	Solvothermal synthesis of CuS semiconductor hollow spheres based on a bubble template route. Journal of Crystal Growth, 2009, 311, 500-503.	0.7	98
74	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for Highâ€Performance Liâ€Ion Batteries. Small, 2018, 14, e1800793.	5.2	94
75	Free-standing V2O5 electrode for flexible lithium ion batteries. Electrochemistry Communications, 2011, 13, 383-386.	2.3	93
76	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.	5.2	92
77	Hierarchical MoO₂/Mo₂C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 19987-19993.	4.0	92
78	Enhancement of F-doping on the electrochemical behavior of carbon-coated LiFePO4 nanoparticles prepared by hydrothermal route. Electrochimica Acta, 2011, 56, 8833-8838.	2.6	89
79	Unraveling the Catalytic Activity of Feâ€“Based Compounds toward Li₂S_x in Liâ€“S Chemical System from dâ€“p Bands. Advanced Energy Materials, 2021, 11, 2100673.	10.2	89
80	Single-crystalline nanoporous Nb2O5 nanotubes. Nanoscale Research Letters, 2011, 6, 138.	3.1	88
81	Mild and cost-effective synthesis of iron fluorideâ€“graphene nanocomposites for high-rate Li-ion battery cathodes. Journal of Materials Chemistry A, 2013, 1, 1969-1975.	5.2	87
82	Sn-based nanomaterials converted from SnS nanobelts: Facile synthesis, characterizations, optical properties and energy storage performances. Electrochimica Acta, 2010, 56, 243-250.	2.6	84
83	Cathodes for Aqueous Znâ€Ion Batteries: Materials, Mechanisms, and Kinetics. Chemistry - A European Journal, 2021, 27, 830-860.	1.7	84
84	General strategy for one-pot synthesis of metal sulfide hollow spheres with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2012, 125, 180-188.	10.8	80
85	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.	8.2	80
86	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.	1.3	78
87	In Situ Construction a Stable Protective Layer in Polymer Electrolyte for Ultralong Lifespan Solidâ€State Lithium Metal Batteries. Advanced Science, 2022, 9, e2104277.	5.6	78
88	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.	5.2	77
89	A Self-Supporting Covalent Organic Framework Separator with Desolvation Effect for High Energy Density Lithium Metal Batteries. ACS Energy Letters, 2022, 7, 885-896.	8.8	76
90	Selfâ€Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Longâ€Life Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 5198-5204.	1.7	75

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91	A scalable ternary SnO₂â€“Coâ€“C 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.	5.2	74
92	MOF-derived hollow TiO2@C/FeTiO3 nanoparticles as photoanodes with enhanced full spectrum light PEC activities. Applied Catalysis B: Environmental, 2019, 250, 369-381.	10.8	72
93	Recent Progress of P2â€Type Layered Transitionâ€Metal Oxide Cathodes for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2020, 26, 7747-7766.	1.7	72
94	Facile Synthesis of Na0.33V2O5 Nanosheet-Graphene Hybrids as Ultrahigh Performance Cathode Materials for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 17433-17440.	4.0	70
95	Self-assembled porous hierarchical-like CoO@C microsheets transformed from inorganicâ€“organic precursors and their lithium-ion battery application. CrystEngComm, 2012, 14, 2669.	1.3	67
96	Restricting the Solubility of Polysulfides in Liâ€S Batteries Via Electrolyte Salt Selection. Advanced Energy Materials, 2016, 6, 1600160.	10.2	66
97	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.	9.5	65
98	Rational synthesis of ternary FeS@TiO2@C nanotubes as anode for superior Na-ion batteries. Chemical Engineering Journal, 2019, 359, 765-774.	6.6	64
99	Interface engineering for composite cathodes in sulfide-based all-solid-state lithium batteries. Journal of Energy Chemistry, 2021, 60, 32-60.	7.1	64
100	Cation-Induced Coiling of Vanadium Pentoxide Nanobelts. Nanoscale Research Letters, 2010, 5, 1619-1626.	3.1	63
101	Transition-metal redox evolution in LiNi0.5Mn0.3Co0.2O2 electrodes at high potentials. Journal of Power Sources, 2017, 360, 294-300.	4.0	62
102	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. Electrochimica Acta, 2019, 312, 224-233.	2.6	62
103	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.	5.2	61
104	Li₄Ti₅O₁₂ nanosheets as high-rate and long-life anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 24446-24452.	5.2	61
105	Ultralow Volume Change of P2â€Type Layered Oxide Cathode for Naâ€Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na⁺. Angewandte Chemie - International Edition, 2021, 60, 20960-20969.	7.2	59
106	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.	5.2	58
107	Deciphering the Oxygen Absorption Preâ€edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. Energy and Environmental Materials, 2021, 4, 246-254.	7.3	56
108	Crystallization and functionality of inorganic materials. Materials Research Bulletin, 2012, 47, 2838-2842.	2.7	55

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109	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. Chemical Engineering Journal, 2020, 387, 124061.	6.6	55
110	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.	5.2	54
111	Enhancing the Electrochemical Performance of the LiMn₂O₄ Hollow Microsphere Cathode with a LiNi_{0.5}Mn_{1.5}O₄ Coated Layer. Chemistry - A European Journal, 2014, 20, 824-830.	1.7	53
112	MoS2 Nanosheets with Conformal Carbon Coating as Stable Anode Materials for Sodium-Ion Batteries. Electrochimica Acta, 2017, 254, 172-180.	2.6	53
113	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O3-Type Cathode NaNi_{0.45â€“x}Mn_{0.25}Ti_{0.3}Co_xO₂ for Sodium-Ion Storage at High Voltage. ACS Applied Materials & Interfaces, 2019, 11, 7906-7913.	4.0	53
114	Recent progress of flexible sulfur cathode based on carbon host for lithium-sulfur batteries. Journal of Materials Science and Technology, 2020, 55, 56-72.	5.6	53
115	Facile Synthesis of Transitionâ€Metal Oxide Nanocrystals Embedded in Hollow Carbon Microspheres for Highâ€Rate Lithiumâ€Ionâ€Battery Anodes. Chemistry - A European Journal, 2013, 19, 9811-9816.	1.7	52
116	Iron Fluoride Hollow Porous Microspheres: Facile Solutionâ€Phase Synthesis and Their Application for Liâ€Ion Battery Cathodes. Chemistry - A European Journal, 2014, 20, 5815-5820.	1.7	52
117	Why LiFePO₄is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. Physical Chemistry Chemical Physics, 2015, 17, 26369-26377.	1.3	52
118	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.	2.6	51
119	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Liâ€“S Batteries. Small, 2020, 16, e1906634.	5.2	50
120	Challenges and strategies of zinc anode for aqueous zinc-ion batteries. Materials Chemistry Frontiers, 2021, 5, 2201-2217.	3.2	50
121	Facile synthesis of P2-type Na_{0.4}Mn_{0.54}Co_{0.46}O₂as a high capacity cathode material for sodium-ion batteries. RSC Advances, 2015, 5, 51454-51460.	1.7	49
122	Solvothermal Synthesis of Uniform Co₃O₄/C Hollow Quasiâ€Nanospheres for Enhanced Lithium Ion Intercalation Applications. European Journal of Inorganic Chemistry, 2012, 2012, 3825-3829.	1.0	47
123	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.	4.0	46
124	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.	4.0	46
125	Selfâ€Sacrifice Template Construction of Uniform Yolkâ€“Shell ZnS@C for Superior Alkaliâ€Ion Storage. Advanced Science, 2022, 9, e2200247.	5.6	46
126	Hollow bean-pod-like SiO₂-supported-SnO₂/C nanocomposites for durable lithium and sodium storage. Journal of Materials Chemistry A, 2017, 5, 1629-1636.	5.2	44

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127	Ultrafine ZnS Nanoparticles in the Nitrogen-Doped Carbon Matrix for Long-Life and High-Stable Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 11007-11017.	4.0	44
128	Amorphous FeF₃/C nanocomposite cathode derived from metalâ€“organic frameworks for sodium ion batteries. RSC Advances, 2017, 7, 24004-24010.	1.7	43
129	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.	6.6	42
130	The importance of solid electrolyte interphase formation for long cycle stability full-cell Na-ion batteries. Nano Energy, 2016, 27, 664-672.	8.2	41
131	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.	5.2	41
132	An atomic-confined-space separator for high performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 1896-1903.	5.2	41
133	Insight into Reversible Conversion Reactions in SnO₂â€Based Anodes for Lithium Storage: A Review. Small, 2022, 18, e2201110.	5.2	40
134	Coâ€“Sn Nanocrystalline Solid Solutions as Anode Materials in Lithiumâ€Ion Batteries with High Pseudocapacitive Contribution. ChemSusChem, 2019, 12, 1451-1458.	3.6	38
135	General construction of lithiophilic 3D skeleton for dendrite-free lithium metal anode via a versatile MOF-derived route. Science China Materials, 2022, 65, 337-348.	3.5	38
136	A ZnGeP 2 /C anode for lithium-ion and sodium-ion batteries. Electrochemistry Communications, 2017, 77, 85-88.	2.3	37
137	Effects of TiO2 phase on the performance of Li4Ti5O12 anode for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 689, 812-819.	2.8	36
138	Subzero temperature promotes stable lithium storage in SnO2. Energy Storage Materials, 2021, 36, 242-250.	9.5	36
139	Synergistic Effect of Lithium Salts with Fillers and Solvents in Composite Electrolytes for Superior Room-Temperature Solid-State Lithium Batteries. ACS Applied Energy Materials, 2022, 5, 2484-2494.	2.5	36
140	Wheat straw carbon matrix wrapped sulfur composites as a superior cathode for Liâ€“S batteries. RSC Advances, 2015, 5, 100089-100096.	1.7	35
141	Effects of Anion Mobility on Electrochemical Behaviors of Lithiumâ€“Sulfur Batteries. Chemistry of Materials, 2017, 29, 9023-9029.	3.2	35
142	From chemistry to mechanics: bulk modulus evolution of Liâ€“Si and Liâ€“Sn alloys via the metallic electronegativity scale. Physical Chemistry Chemical Physics, 2013, 15, 17658.	1.3	34
143	Facile synthesis of uniform MoO2/Mo2CTx heteromicrospheres as high-performance anode materials for lithium-ion batteries. Journal of Power Sources, 2017, 363, 392-403.	4.0	34
144	Nanoconfined Oxidation Synthesis of Nâ€Doped Carbon Hollow Spheres and MnO₂ Encapsulated Sulfur Cathode for Superior Liâ€S Batteries. Chemistry - A European Journal, 2018, 24, 4573-4582.	1.7	34

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145	Electrospun Spinel LiNi_{0.5}Mn_{1.5}O₄ Hierarchical Nanofibers as 5â€‰V Cathode Materials for Lithiumâ€Ion Batteries. ChemPlusChem, 2013, 78, 636-641.	1.3	33
146	Hollow spheres of Mo2C@C as synergistically confining sulfur host for superior Liâ€“S battery cathode. Electrochimica Acta, 2020, 332, 135482.	2.6	33
147	Inâ€Situ Synthesis of Carbonâ€Encapsulated Atomic Cobalt as Highly Efficient Polysulfide Electrocatalysts for Highly Stable Lithiumâ€“Sulfur Batteries. Small, 2022, 18, e2106640.	5.2	33
148	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.	9.5	32
149	Nano-spatially confined and interface-controlled lithiationâ€“delithiation in an in situ formed (SnSâ€“SnS₂â€“S)/FLG composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 15320-15332.	5.2	32
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151	Facile synthesis of layered LiV3O8 hollow nanospheres as superior cathode materials for high-rate Li-ion batteries. RSC Advances, 2012, 2, 10470.	1.7	31
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