

Xiaosi Zhou

List of Publications by Year in descending order

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84
papers

10,297
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26567

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83
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85
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times ranked

9553
citing authors

#	ARTICLE	IF	CITATIONS
1	Binding SnO ₂ Nanocrystals in Nitrogen-Doped Graphene Sheets as Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2013, 25, 2152-2157.	11.1	1,089
2	Self-Assembled Nanocomposite of Silicon Nanoparticles Encapsulated in Graphene through Electrostatic Attraction for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012, 2, 1086-1090.	10.2	447
3	Facile synthesis of silicon nanoparticles inserted into graphene sheets as improved anode materials for lithium-ion batteries. <i>Chemical Communications</i> , 2012, 48, 2198.	2.2	417
4	Enabling Superior Electrochemical Properties for Highly Efficient Potassium Storage by Impregnating Ultrafine Sb Nanocrystals within Nanochannel-Containing Carbon Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14578-14583.	7.2	332
5	Confining SnS ₂ Ultrathin Nanosheets in Hollow Carbon Nanostructures for Efficient Capacitive Sodium Storage. <i>Joule</i> , 2018, 2, 725-735.	11.7	324
6	Ultra-Uniform SnO _x /Carbon Nanohybrids toward Advanced Lithium-Ion Battery Anodes. <i>Advanced Materials</i> , 2014, 26, 3943-3949.	11.1	311
7	Rice husk-derived hard carbons as high-performance anode materials for sodium-ion batteries. <i>Carbon</i> , 2018, 127, 658-666.	5.4	294
8	Synthesis of MoS ₂ nanosheet-graphene nanosheet hybrid materials for stable lithium storage. <i>Chemical Communications</i> , 2013, 49, 1838.	2.2	293
9	A Yolk-Shell Structured FePO ₄ Cathode for High-Rate and Long-Cycling Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17504-17510.	7.2	275
10	Formation of Uniform N-doped Carbon-Coated SnO ₂ Submicroboxes with Enhanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016, 6, 1600451.	10.2	262
11	Co ₃ S ₄ porous nanosheets embedded in graphene sheets as high-performance anode materials for lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6787-6791.	5.2	247
12	Facile synthesis of MoS ₂ @CMK-3 nanocomposite as an improved anode material for lithium-ion batteries. <i>Nanoscale</i> , 2012, 4, 5868.	2.8	240
13	Encapsulating Sn Nanoparticles in Amorphous Carbon Nanotubes for Enhanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016, 6, 1601177.	10.2	234
14	A Yolk-Shell Structured FePO ₄ Cathode for High-Rate and Long-Cycling Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 17657-17663.	1.6	191
15	Wet milled synthesis of an Sb/MWCNT nanocomposite for improved sodium storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13727.	5.2	188
16	Dispersion of graphene sheets in ionic liquid [bmim][PF ₆] stabilized by an ionic liquid polymer. <i>Chemical Communications</i> , 2010, 46, 386-388.	2.2	169
17	Synthesis of graphene/polyaniline composite nanosheets mediated by polymerized ionic liquid. <i>Chemical Communications</i> , 2010, 46, 3663.	2.2	165
18	Electrospun Silicon Nanoparticle/Porous Carbon Hybrid Nanofibers for Lithium-Ion Batteries. <i>Small</i> , 2013, 9, 2684-2688.	5.2	164

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19	Highly Disordered Carbon as a Superior Anode Material for Room-Temperature Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2014, 1, 83-86.	1.7	158
20	Fluorine-Doped Carbon Particles Derived from Lotus Petioles as High-Performance Anode Materials for Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21336-21344.	1.5	158
21	Nanowire-templated formation of SnO ₂ /carbon nanotubes with enhanced lithium storage properties. <i>Nanoscale</i> , 2016, 8, 8384-8389.	2.8	145
22	Kelp-derived hard carbons as advanced anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5761-5769.	5.2	143
23	A Chemically Coupled Antimony/Multilayer Graphene Hybrid as a High-Performance Anode for Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 8138-8145.	3.2	139
24	A Low-Strain Phosphate Cathode for High-Rate and Ultralong Cycle-Life Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25575-25582.	7.2	137
25	Efficient 3D Conducting Networks Built by Graphene Sheets and Carbon Nanoparticles for High-Performance Silicon Anode. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2824-2828.	4.0	135
26	Fabrication of porous Na ₃ V ₂ (PO ₄) ₃ /reduced graphene oxide hollow spheres with enhanced sodium storage performance. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 84-91.	5.0	130
27	A robust composite of SnO ₂ hollow nanospheres enwrapped by graphene as a high-capacity anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 17456.	6.7	129
28	Tin Nanoparticles Impregnated in Nitrogen-Doped Graphene for Lithium-Ion Battery Anodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25367-25373.	1.5	120
29	Spin-coated silicon nanoparticle/graphene electrode as a binder-free anode for high-performance lithium-ion batteries. <i>Nano Research</i> , 2012, 5, 845-853.	5.8	117
30	A selenium-confined microporous carbon cathode for ultrastable lithium-selenium batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17735-17739.	5.2	117
31	Template-free synthesis of metal oxide hollow micro-/nanospheres <i>via</i> Ostwald ripening for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10168-10175.	5.2	109
32	A Few-Layer SnS ₂ /Reduced Graphene Oxide Sandwich Hybrid for Efficient Sodium Storage. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3261-3269.	1.5	105
33	An SbO _x /Reduced Graphene Oxide Composite as a High-Rate Anode Material for Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23527-23534.	1.5	101
34	Challenges and perspectives of covalent organic frameworks for advanced alkali-metal ion batteries. <i>Science China Chemistry</i> , 2021, 64, 1267-1282.	4.2	99
35	Switching the basicity of ionic liquids by CO ₂ . <i>Green Chemistry</i> , 2008, 10, 1142.	4.6	93
36	Ge Nanoparticles Encapsulated in Nitrogen-Doped Reduced Graphene Oxide as an Advanced Anode Material for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28502-28508.	1.5	92

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37	Improving the Anode Performance of WS ₂ through a Self-Assembled Double Carbon Coating. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15874-15881.	1.5	90
38	Understanding the influence of different carbon matrix on the electrochemical performance of Na ₃ V ₂ (PO ₄) ₃ cathode for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 788, 240-247.	2.8	90
39	Candied-Haws-like Architecture Consisting of FeS ₂ @C Core-Shell Particles for Efficient Potassium Storage. , 2021, 3, 356-363.		90
40	An efficient sodium-ion battery consisting of reduced graphene oxide bonded Na ₃ V ₂ (PO ₄) ₃ in a composite carbon network. <i>Journal of Alloys and Compounds</i> , 2018, 767, 131-140.	2.8	86
41	Chemical bonding between antimony and ionic liquid-derived nitrogen-doped carbon for sodium-ion battery anode. <i>Journal of Power Sources</i> , 2017, 349, 37-44.	4.0	85
42	Fabrication of Microporous Sulfur-Doped Carbon Microtubes for High-Performance Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 6638-6645.	2.5	84
43	Understanding the Effect of Different Polymeric Surfactants on Enhancing the Silicon/Reduced Graphene Oxide Anode Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5848-5854.	1.5	83
44	Hierarchical Nanospheres Constructed by Ultrathin MoS ₂ Nanosheets Braced on Nitrogen-Doped Carbon Polyhedra for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2112-2119.	4.0	83
45	Uniformly-distributed Sb nanoparticles in ionic liquid-derived nitrogen-enriched carbon for highly reversible sodium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13411-13420.	5.2	79
46	Strongly Bonded Selenium/Microporous Carbon Nanofibers Composite as a High-Performance Cathode for Lithium-Selenium Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27316-27321.	1.5	77
47	Confining ultrafine SnS nanoparticles in hollow multichannel carbon nanofibers for boosting potassium storage properties. <i>Science Bulletin</i> , 2022, 67, 151-160.	4.3	75
48	Uniform yolk-shell Fe ₇ S ₈ @C nanoboxes as a general host material for the efficient storage of alkali metal ions. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152732.	2.8	73
49	Facile synthesis of SnSe ₂ nanoparticles supported on graphite nanosheets for improved sodium storage and hydrogen evolution. <i>Journal of Power Sources</i> , 2019, 436, 226860.	4.0	72
50	A PEO-assisted electrospun silicon-graphene composite as an anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9019.	5.2	69
51	A general strategy for embedding ultrasmall CoM _x nanocrystals (M = S, O, Se, and Te) in hierarchical porous carbon nanofibers for high-performance potassium storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1487-1494.	5.2	68
52	Ultralong Cycle Life Sodium-Ion Battery Anodes Using a Graphene-Templated Carbon Hybrid. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22426-22431.	1.5	66
53	The dispersion of carbon nanotubes in water with the aid of very small amounts of ionic liquid. <i>Chemical Communications</i> , 2009, , 1897.	2.2	65
54	Sn ₄ P ₃ nanoparticles confined in multilayer graphene sheets as a high-performance anode material for potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 66, 413-421.	7.1	64

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55	Seeding Growth of Pd/Au Bimetallic Nanoparticles on Highly Cross-Linked Polymer Microspheres with Ionic Liquid and Solvent-Free Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3396-3400.	1.5	63
56	Novel nitrogen-doped reduced graphene oxide-bonded Sb nanoparticles for improved sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11244-11251.	5.2	62
57	Enhancing the Anode Performance of Antimony through Nitrogen-Doped Carbon and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3214-3220.	1.5	61
58	Ultrafine SnSSe/multilayer graphene nanosheet nanocomposite as a high-performance anode material for potassium-ion half/full batteries. <i>Journal of Energy Chemistry</i> , 2021, 60, 241-248.	7.1	54
59	Enabling Superior Electrochemical Properties for Highly Efficient Potassium Storage by Impregnating Ultrafine Sb Nanocrystals within Nanochannel-Containing Carbon Nanofibers. <i>Angewandte Chemie</i> , 2019, 131, 14720-14725.	1.6	53
60	Water Chestnut-Derived Slope-Dominated Carbon as a High-Performance Anode for High-Safety Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11410-11417.	2.5	51
61	Shape controlled synthesis of palladium nanocrystals by combination of oleylamine and alkylammonium alkylcarbamate and their catalytic activity. <i>Chemical Communications</i> , 2010, 46, 8552.	2.2	46
62	Coupling Co ₃ [Co(CN) ₆] ₂ nanocubes with reduced graphene oxide for high-rate and long-cycle-life potassium storage. <i>Journal of Energy Chemistry</i> , 2021, 58, 593-601.	7.1	44
63	Recent Progress and Prospects of Layered Cathode Materials for Potassium-Ion Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 178-200.	7.3	43
64	Construction of CoS ₂ nanoparticles embedded in well-structured carbon nanocubes for high-performance potassium-ion half/full batteries. <i>Science China Chemistry</i> , 2021, 64, 1401-1409.	4.2	43
65	Synthesis of multicore-shell FeS ₂ @C nanocapsules for stable potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 73, 126-132.	7.1	43
66	Ru nanoparticles stabilized by poly(N-vinyl-2-pyrrolidone) grafted onto silica: Very active and stable catalysts for hydrogenation of aromatics. <i>Journal of Molecular Catalysis A</i> , 2009, 306, 143-148.	4.8	41
67	A high-performance cathode for potassium-ion batteries based on uniform P3-type K _{0.5} Mn _{0.8} Co _{0.1} Ni _{0.1} O ₂ porous microcuboids. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22820-22826.	5.2	40
68	Synthesis of KVPO ₄ F/Carbon Porous Single Crystalline Nanoplates for High-Rate Potassium-Ion Batteries. <i>Nano Letters</i> , 2022, 22, 4933-4940.	4.5	37
69	Scalable synthesis of Na ₂ MVF ₇ (M = Mn, Fe, and Co) as high-performance cathode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2021, 57, 11497-11500.	2.2	35
70	Cross-linked polymer coated Pd nanocatalysts on SiO ₂ support: very selective and stable catalysts for hydrogenation in supercritical CO ₂ . <i>Green Chemistry</i> , 2009, 11, 798.	4.6	30
71	Facile synthesis of KVPO ₄ F/reduced graphene oxide hybrid as a high-performance cathode material for potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 68, 284-292.	7.1	30
72	Construction of Amorphous FePO ₄ Nanosheets with Enhanced Sodium Storage Properties. <i>ACS Applied Energy Materials</i> , 2018, 1, 4395-4402.	2.5	29

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73	A highly stable potassium-ion battery anode enabled by multilayer graphene sheets embedded with SnTe nanoparticles. <i>Chemical Engineering Journal</i> , 2022, 435, 135100.	6.6	29
74	Aerobic oxidation of secondary alcohols to ketones catalyzed by cobalt(II)/ZnO in poly(ethylene) Tj ETQq0 0 0 rgBT, /Overlock, 10 Tf 50 7	1.6	27
75	Self-templated construction of peanut-like P3-type $K_{0.45}Mn_{0.5}Co_{0.5}O_2$ for highly reversible potassium storage. <i>Journal of Materials Chemistry A</i> , 2022, 10, 554-560.	5.2	23
76	Core-Shell-Structured Carbon Nanotube@VS ₄ Nanonecklaces as a High-Performance Cathode Material for Magnesium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5726-5733.	2.1	21
77	Core-Shell Structured Fe ₇ S ₈ @C Nanospheres as a High-Performance Anode Material for Potassium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 3490-3496.	2.5	19
78	Nanostructured metal chalcogenides confined in hollow structures for promoting energy storage. <i>Nanoscale Advances</i> , 2020, 2, 583-604.	2.2	18
79	Anchoring ultrafine CoP and CoSb nanoparticles into rich N-doped carbon nanofibers for efficient potassium storage. <i>Science China Materials</i> , 2022, 65, 43-50.	3.5	18
80	Double-Coated Fe ₂ N@TiO ₂ @C Yolka-Shell Submicrocubes as an Advanced Anode for Potassium-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1878-1884.	2.6	15
81	Implantation of Fe ₇ S ₈ nanocrystals into hollow carbon nanospheres for efficient potassium storage. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 840-848.	5.0	15
82	Anchoring Carbon-Coated CoSe Nanoparticles on Hollow Carbon Nanocapsules for Efficient Potassium Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 6356-6363.	2.5	11
83	A Low-Strain Phosphate Cathode for High-Rate and Ultralong Cycle-Life Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 25779-25786.	1.6	8
84	A novel valve-less piezoelectric micropump generating recirculating flow. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1473-1490.	1.5	1