Xiaosi Zhou

List of Publications by Year
in descending order

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84 papers	10,297 citations	26630 56 h-index	56724 83 g-index
85 all docs	85 docs citations	85 times ranked	9553 citing authors

#	Article	IF	Citations
1	Binding SnO₂ Nanocrystals in Nitrogenâ€Doped Graphene Sheets as Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2013, 25, 2152-2157.	21.0	1,089
2	Selfâ€Assembled Nanocomposite of Silicon Nanoparticles Encapsulated in Graphene through Electrostatic Attraction for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2012, 2, 1086-1090.	19.5	447
3	Facile synthesis of silicon nanoparticles inserted into graphene sheets as improved anode materials for lithium-ion batteries. Chemical Communications, 2012, 48, 2198.	4.1	417
4	Enabling Superior Electrochemical Properties for Highly Efficient Potassium Storage by Impregnating Ultrafine Sb Nanocrystals within Nanochannelâ€Containing Carbon Nanofibers. Angewandte Chemie - International Edition, 2019, 58, 14578-14583.	13.8	332
5	Confining SnS2 Ultrathin Nanosheets in Hollow Carbon Nanostructures for Efficient Capacitive Sodium Storage. Joule, 2018, 2, 725-735.	24.0	324
6	Ultraâ€Uniform SnO_x/Carbon Nanohybrids toward Advanced Lithiumâ€Ion Battery Anodes. Advanced Materials, 2014, 26, 3943-3949.	21.0	311
7	Rice husk-derived hard carbons as high-performance anode materials for sodium-ion batteries. Carbon, 2018, 127, 658-666.	10.3	294
8	Synthesis of MoS2 nanosheetâ€“graphene nanosheet hybrid materials for stable lithium storage. Chemical Communications, 2013, 49, 1838.	4.1	293
9	A Yolkâ€“Shellâ€Structured FePO₄ Cathode for Highâ€Rate and Longâ€Cycling Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 17504-17510.	13.8	275
10	Formation of Uniform Nâ€doped Carbonâ€Coated SnO₂ Submicroboxes with Enhanced Lithium Storage Properties. Advanced Energy Materials, 2016, 6, 1600451.	19.5	262
11	Co₃S₄ porous nanosheets embedded in graphene sheets as high-performance anode materials for lithium and sodium storage. Journal of Materials Chemistry A, 2015, 3, 6787-6791.	10.3	247
12	Facile synthesis of MoS2@CMK-3 nanocomposite as an improved anode material for lithium-ion batteries. Nanoscale, 2012, 4, 5868.	5.6	240
13	Encapsulating Sn Nanoparticles in Amorphous Carbon Nanotubes for Enhanced Lithium Storage Properties. Advanced Energy Materials, 2016, 6, 1601177.	19.5	234
14	A Yolkâ€“Shellâ€Structured FePO₄ Cathode for Highâ€Rate and Longâ€Cycling Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 17657-17663.	2.0	191
15	Wet milled synthesis of an Sb/MWCNT nanocomposite for improved sodium storage. Journal of Materials Chemistry A, 2013, 1, 13727.	10.3	188
16	Dispersion of graphene sheets in ionic liquid [bmim][PF₆] stabilized by an ionic liquid polymer. Chemical Communications, 2010, 46, 386-388.	4.1	169
17	Synthesis of graphene/polyaniline composite nanosheets mediated by polymerized ionic liquid. Chemical Communications, 2010, 46, 3663.	4.1	165
18	Electrospun Silicon Nanoparticle/Porous Carbon Hybrid Nanofibers for Lithiumâ€Ion Batteries. Small, 2013, 9, 2684-2688.	10.0	164

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19	Highly Disordered Carbon as a Superior Anode Material for Roomâ€Temperature Sodiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 83-86.	3.4	158
20	Fluorine-Doped Carbon Particles Derived from Lotus Petioles as High-Performance Anode Materials for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 21336-21344.	3.1	158
21	Nanowire-templated formation of SnO₂/carbon nanotubes with enhanced lithium storage properties. Nanoscale, 2016, 8, 8384-8389.	5.6	145
22	Kelp-derived hard carbons as advanced anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 5761-5769.	10.3	143
23	A Chemically Coupled Antimony/Multilayer Graphene Hybrid as a High-Performance Anode for Sodium-Ion Batteries. Chemistry of Materials, 2015, 27, 8138-8145.	6.7	139
24	A Lowâ€Strain Phosphate Cathode for Highâ€Rate and Ultralong Cycleâ€Life Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 25575-25582.	13.8	137
25	Efficient 3D Conducting Networks Built by Graphene Sheets and Carbon Nanoparticles for High-Performance Silicon Anode. ACS Applied Materials & Interfaces, 2012, 4, 2824-2828.	8.0	135
26	Fabrication of porous Na3V2(PO4)3/reduced graphene oxide hollow spheres with enhanced sodium storage performance. Journal of Colloid and Interface Science, 2020, 567, 84-91.	9.4	130
27	A robust composite of SnO2 hollow nanospheres enwrapped by graphene as a high-capacity anode material for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 17456.	6.7	129
28	Tin Nanoparticles Impregnated in Nitrogen-Doped Graphene for Lithium-Ion Battery Anodes. Journal of Physical Chemistry C, 2013, 117, 25367-25373.	3.1	120
29	Spin-coated silicon nanoparticle/graphene electrode as a binder-free anode for high-performance lithium-ion batteries. Nano Research, 2012, 5, 845-853.	10.4	117
30	A selenium-confined microporous carbon cathode for ultrastable lithiumâ€“selenium batteries. Journal of Materials Chemistry A, 2014, 2, 17735-17739.	10.3	117
31	Template-free synthesis of metal oxide hollow micro-/nanospheres via Ostwald ripening for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 10168-10175.	10.3	109
32	A Few-Layer SnS2/Reduced Graphene Oxide Sandwich Hybrid for Efficient Sodium Storage. Journal of Physical Chemistry C, 2017, 121, 3261-3269.	3.1	105
33	An SbO_x/Reduced Graphene Oxide Composite as a High-Rate Anode Material for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 23527-23534.	3.1	101
34	Challenges and perspectives of covalent organic frameworks for advanced alkali-metal ion batteries. Science China Chemistry, 2021, 64, 1267-1282.	8.2	99
35	Switching the basicity of ionic liquids by CO2. Green Chemistry, 2008, 10, 1142.	9.0	93
36	Ge Nanoparticles Encapsulated in Nitrogen-Doped Reduced Graphene Oxide as an Advanced Anode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 28502-28508.	3.1	92

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37	Improving the Anode Performance of WS₂ through a Self-Assembled Double Carbon Coating. Journal of Physical Chemistry C, 2015, 119, 15874-15881.	3.1	90
38	Understanding the influence of different carbon matrix on the electrochemical performance of Na3V2(PO4)3 cathode for sodium-ion batteries. Journal of Alloys and Compounds, 2019, 788, 240-247.	5.5	90
39	Candied-Haws-like Architecture Consisting of FeS₂@C Coreâ€“Shell Particles for Efficient Potassium Storage. , 2021, 3, 356-363.		90
40	An efficient sodium-ion battery consisting of reduced graphene oxide bonded Na3V2(PO4)3 in a composite carbon network. Journal of Alloys and Compounds, 2018, 767, 131-140.	5.5	86
41	Chemical bonding between antimony and ionic liquid-derived nitrogen-doped carbon for sodium-ion battery anode. Journal of Power Sources, 2017, 349, 37-44.	7.8	85
42	Fabrication of Microporous Sulfur-Doped Carbon Microtubes for High-Performance Sodium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 6638-6645.	5.1	84
43	Understanding the Effect of Different Polymeric Surfactants on Enhancing the Silicon/Reduced Graphene Oxide Anode Performance. Journal of Physical Chemistry C, 2015, 119, 5848-5854.	3.1	83
44	Hierarchical Nanospheres Constructed by Ultrathin MoS₂ Nanosheets Braced on Nitrogen-Doped Carbon Polyhedra for Efficient Lithium and Sodium Storage. ACS Applied Materials & Interfaces, 2019, 11, 2112-2119.	8.0	83
45	Uniformly-distributed Sb nanoparticles in ionic liquid-derived nitrogen-enriched carbon for highly reversible sodium storage. Journal of Materials Chemistry A, 2017, 5, 13411-13420.	10.3	79
46	Strongly Bonded Selenium/Microporous Carbon Nanofibers Composite as a High-Performance Cathode for Lithiumâ€“Selenium Batteries. Journal of Physical Chemistry C, 2015, 119, 27316-27321.	3.1	77
47	Confining ultrafine SnS nanoparticles in hollow multichannel carbon nanofibers for boosting potassium storage properties. Science Bulletin, 2022, 67, 151-160.	9.0	75
48	Uniform yolkâ€'shell Fe7S8@C nanoboxes as a general host material for the efficient storage of alkali metal ions. Journal of Alloys and Compounds, 2020, 817, 152732.	5.5	73
49	Facile synthesis of SnSe2 nanoparticles supported on graphite nanosheets for improved sodium storage and hydrogen evolution. Journal of Power Sources, 2019, 436, 226860.	7.8	72
50	A PEO-assisted electrospun siliconâ€“graphene composite as an anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 9019.	10.3	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. Journal of Materials Chemistry A, 2021, 9, 1487-1494.	10.3	68
52	Ultralong Cycle Life Sodium-Ion Battery Anodes Using a Graphene-Templated Carbon Hybrid. Journal of Physical Chemistry C, 2014, 118, 22426-22431.	3.1	66
53	The dispersion of carbon nanotubes in water with the aid of very small amounts of ionic liquid. Chemical Communications, 2009, , 1897.	4.1	65
54	Sn4P3 nanoparticles confined in multilayer graphene sheets as a high-performance anode material for potassium-ion batteries. Journal of Energy Chemistry, 2022, 66, 413-421.	12.9	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. Journal of Physical Chemistry C, 2010, 114, 3396-3400.	3.1	63
56	Novel nitrogen-doped reduced graphene oxide-bonded Sb nanoparticles for improvedÂsodium storage performance. Journal of Materials Chemistry A, 2018, 6, 11244-11251.	10.3	62
57	Enhancing the Anode Performance of Antimony through Nitrogen-Doped Carbon and Carbon Nanotubes. Journal of Physical Chemistry C, 2016, 120, 3214-3220.	3.1	61
58	Ultrafine SnSSe/multilayer graphene nanosheet nanocomposite as a high-performance anode material for potassium-ion half/full batteries. Journal of Energy Chemistry, 2021, 60, 241-248.	12.9	54
59	Enabling Superior Electrochemical Properties for Highly Efficient Potassium Storage by Impregnating Ultrafine Sb Nanocrystals within Nanochannelâ€Containing Carbon Nanofibers. Angewandte Chemie, 2019, 131, 14720-14725.	2.0	53
60	Water Chestnut-Derived Slope-Dominated Carbon as a High-Performance Anode for High-Safety Potassium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11410-11417.	5.1	51
61	Shape controlled synthesis of palladium nanocrystals by combination of oleylamine and alkylammonium alkylcarbamate and their catalytic activity. Chemical Communications, 2010, 46, 8552.	4.1	46
62	Coupling Co3[Co(CN)6]2 nanocubes with reduced graphene oxide for high-rate and long-cycle-life potassium storage. Journal of Energy Chemistry, 2021, 58, 593-601.	12.9	44
63	Recent Progress and Prospects of Layered Cathode Materials for Potassiumâ€ion Batteries. Energy and Environmental Materials, 2021, 4, 178-200.	12.8	43
64	Construction of CoS2 nanoparticles embedded in well-structured carbon nanocubes for high-performance potassium-ion half/full batteries. Science China Chemistry, 2021, 64, 1401-1409.	8.2	43
65	Synthesis of multicore-shell FeS2@C nanocapsules for stable potassium-ion batteries. Journal of Energy Chemistry, 2022, 73, 126-132.	12.9	43
66	Ru nanoparticles stabilized by poly(N-vinyl-2-pyrrolidone) grafted onto silica: Very active and stable catalysts for hydrogenation of aromatics. Journal of Molecular Catalysis A, 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}O₂porous microcuboids. Journal of Materials Chemistry A, 2021, 9, 22820-22826.	10.3	40
68	Synthesis of KVPO₄F/Carbon Porous Single Crystalline Nanoplates for High-Rate Potassium-Ion Batteries. Nano Letters, 2022, 22, 4933-4940.	9.1	37
69	Scalable synthesis of Na₂MVF₇ (M = Mn, Fe, and Co) as high-performance cathode materials for sodium-ion batteries. Chemical Communications, 2021, 57, 11497-11500.	4.1	35
70	Cross-linked polymer coated Pd nanocatalysts on SiO2 support: very selective and stable catalysts for hydrogenation in supercritical CO2. Green Chemistry, 2009, 11, 798.	9.0	30
71	Facile synthesis of KVPO4F/reduced graphene oxide hybrid as a high-performance cathode material for potassium-ion batteries. Journal of Energy Chemistry, 2022, 68, 284-292.	12.9	30
72	Construction of Amorphous FePO₄ Nanosheets with Enhanced Sodium Storage Properties. ACS Applied Energy Materials, 2018, 1, 4395-4402.	5.1	29

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73	A highly stable potassium-ion battery anode enabled by multilayer graphene sheets embedded with SnTe nanoparticles. Chemical Engineering Journal, 2022, 435, 135100.	12.7	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	3.3	27
75	Self-templated construction of peanut-like P3-type K_{0.45}Mn_{0.5}Co_{0.5}O₂ for highly reversible potassium storage. Journal of Materials Chemistry A, 2022, 10, 554-560.	10.3	23
76	Coreâ€“Shell-Structured Carbon Nanotube@VS₄ Nanonecklaces as a High-Performance Cathode Material for Magnesium-Ion Batteries. Journal of Physical Chemistry Letters, 2022, 13, 5726-5733.	4.6	21
77	Coreâ€“Shell Structured Fe₇S₈@C Nanospheres as a High-Performance Anode Material for Potassium-Ion Batteries. Energy & Fuels, 2021, 35, 3490-3496.	5.1	19
78	Nanostructured metal chalcogenides confined in hollow structures for promoting energy storage. Nanoscale Advances, 2020, 2, 583-604.	4.6	18
79	Anchoring ultrafine CoP and CoSb nanoparticles into rich N-doped carbon nanofibers for efficient potassium storage. Science China Materials, 2022, 65, 43-50.	6.3	18
80	<scp>Doubleâ€Coated Fe₂N</scp>@<scp>TiO₂</scp>@C <scp>Yolkâ€Shell</scp> Submicrocubes as an Advanced Anode for <scp>Potassiumâ€Ion</scp> Batteries^{â€}. Chinese Journal of Chemistry, 2021, 39, 1878-1884.	4.9	15
81	Implantation of Fe7S8 nanocrystals into hollow carbon nanospheres for efficient potassium storage. Journal of Colloid and Interface Science, 2022, 615, 840-848.	9.4	15
82	Anchoring Carbon-Coated CoSe Nanoparticles on Hollow Carbon Nanocapsules for Efficient Potassium Storage. ACS Applied Energy Materials, 2021, 4, 6356-6363.	5.1	11
83	A Lowâ€Strain Phosphate Cathode for Highâ€Rate and Ultralong Cycleâ€Life Potassiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 25779-25786.	2.0	8
84	A novel valve-less piezoelectric micropump generating recirculating flow. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1473-1490.	3.1	1