

Xiaosi Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

7,959

citations

48

h-index

85

g-index

85

ext. papers

9,227

ext. citations

9.3

avg, IF

6.61

L-index

#	Paper	IF	Citations
82	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	13	2
81	Implantation of FeS nanocrystals into hollow carbon nanospheres for efficient potassium storage.. <i>Journal of Colloid and Interface Science</i> , 2022 , 615, 840-848	9.3	2
80	A highly stable potassium-ion battery anode enabled by multilayer graphene sheets embedded with SnTe nanoparticles. <i>Chemical Engineering Journal</i> , 2022 , 435, 135100	14.7	3
79	Facile synthesis of $KVPO_4F$ /reduced graphene oxide hybrid as a high-performance cathode material for potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022 , 68, 284-292	12	4
78	Sn_4P_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	12	17
77	Scalable synthesis of NaMVF (M = Mn, Fe, and Co) as high-performance cathode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 11497-11500	5.8	7
76	Candied-Haws-like Architecture Consisting of $FeS_2@C$ CoreShell Particles for Efficient Potassium Storage 2021 , 3, 356-363		37
75	Recent Progress and Prospects of Layered Cathode Materials for Potassium-ion Batteries. <i>Energy and Environmental Materials</i> , 2021 , 4, 178-200	13	18
74	Challenges and perspectives of covalent organic frameworks for advanced alkali-metal ion batteries. <i>Science China Chemistry</i> , 2021 , 64, 1267-1282	7.9	21
73	Double-Coated $Fe_2N@TiO_2@C$ Yolk-Shell Submicrocubes as an Advanced Anode for Potassium-Ion Batteries <i>Chinese Journal of Chemistry</i> , 2021 , 39, 1878-1884	4.9	6
72	Anchoring Carbon-Coated CoSe Nanoparticles on Hollow Carbon Nanocapsules for Efficient Potassium Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6356-6363	6.1	7
71	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	7.9	8
70	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	12	23
69	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	13	16
68	A novel valve-less piezoelectric micropump generating recirculating flow. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1473-1490	4.5	
67	Confining ultrafine SnS nanoparticles in hollow multichannel carbon nanofibers for boosting potassium storage properties. <i>Science Bulletin</i> , 2021 , 67, 151-151	10.6	20
66	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	12	25

65	A Low-Strain Phosphate Cathode for High-Rate and Ultralong Cycle-Life Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 25779	3.6	0
64	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	16.4	42
63	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	4.1	8
62	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	6.1	19
61	A Yolk-Shell-Structured FePO Cathode for High-Rate and Long-Cycling Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17504-17510	16.4	160
60	Fabrication of porous NaV(PO)/reduced graphene oxide hollow spheres with enhanced sodium storage performance. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 84-91	9.3	82
59	Nanostructured metal chalcogenides confined in hollow structures for promoting energy storage. <i>Nanoscale Advances</i> , 2020 , 2, 583-604	5.1	11
58	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	5.7	43
57	A Yolk-Shell-Structured FePO ₄ Cathode for High-Rate and Long-Cycling Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 17657-17663	3.6	4
56	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	5.7	50
55	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	16.4	232
54	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	3.6	48
53	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	8.9	42
52	Hierarchical Nanospheres Constructed by Ultrathin MoS Nanosheets Braced on Nitrogen-Doped Carbon Polyhedra for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2112-2119	9.5	67
51	Confining SnS ₂ Ultrathin Nanosheets in Hollow Carbon Nanostructures for Efficient Capacitive Sodium Storage. <i>Joule</i> , 2018 , 2, 725-735	27.8	281
50	Ionic Liquids in Pharmaceutical Industry 2018 , 539-577		12
49	Template-free synthesis of metal oxide hollow micro-/nanospheres via Ostwald ripening for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10168-10175	13	87
48	Construction of Amorphous FePO ₄ Nanosheets with Enhanced Sodium Storage Properties. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4395-4402	6.1	15

47	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	5.7	58
46	Rice husk-derived hard carbons as high-performance anode materials for sodium-ion batteries. <i>Carbon</i> , 2018 , 127, 658-666	10.4	204
45	Fabrication of Microporous Sulfur-Doped Carbon Microtubes for High-Performance Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6638-6645	6.1	60
44	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	13	57
43	Kelp-derived hard carbons as advanced anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5761-5769	13	112
42	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	8.9	63
41	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	3.8	99
40	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	13	75
39	Formation of Uniform N-doped Carbon-Coated SnO ₂ Submicroboxes with Enhanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016 , 6, 1600451	21.8	233
38	Nanowire-templated formation of SnO ₂ /carbon nanotubes with enhanced lithium storage properties. <i>Nanoscale</i> , 2016 , 8, 8384-9	7.7	123
37	Enhancing the Anode Performance of Antimony through Nitrogen-Doped Carbon and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3214-3220	3.8	52
36	Encapsulating Sn Nanoparticles in Amorphous Carbon Nanotubes for Enhanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016 , 6, 1601177	21.8	195
35	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	13	214
34	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	3.8	80
33	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	3.8	128
32	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	9.6	121
31	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	3.8	64
30	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	3.8	66

29	A selenium-confined microporous carbon cathode for ultrastable lithium-selenium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17735-17739	13	97
28	An SbOx/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	3.8	93
27	Ultralong Cycle Life Sodium-Ion Battery Anodes Using a Graphene-Templated Carbon Hybrid. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22426-22431	3.8	63
26	Highly Disordered Carbon as a Superior Anode Material for Room-Temperature Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2014 , 1, 83-86	4.3	150
25	Ultra-uniform SnOx/carbon nanohybrids toward advanced lithium-ion battery anodes. <i>Advanced Materials</i> , 2014 , 26, 3943-9	24	283
24	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	3.8	88
23	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	13	66
22	Wet milled synthesis of an Sb/MWCNT nanocomposite for improved sodium storage. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13727	13	169
21	Synthesis of MoS2 nanosheet-graphene nanosheet hybrid materials for stable lithium storage. <i>Chemical Communications</i> , 2013 , 49, 1838-40	5.8	276
20	Binding SnO2 nanocrystals in nitrogen-doped graphene sheets as anode materials for lithium-ion batteries. <i>Advanced Materials</i> , 2013 , 25, 2152-7	24	951
19	Electrospun silicon nanoparticle/porous carbon hybrid nanofibers for lithium-ion batteries. <i>Small</i> , 2013 , 9, 2684-8	11	153
18	Tin Nanoparticles Impregnated in Nitrogen-Doped Graphene for Lithium-Ion Battery Anodes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25367-25373	3.8	110
17	Facile synthesis of silicon nanoparticles inserted into graphene sheets as improved anode materials for lithium-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 2198-200	5.8	379
16	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	10	105
15	Facile synthesis of MoS2@CMK-3 nanocomposite as an improved anode material for lithium-ion batteries. <i>Nanoscale</i> , 2012 , 4, 5868-71	7.7	225
14	A robust composite of SnO2 hollow nanospheres enwrapped by graphene as a high-capacity anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17456		123
13	Efficient 3D conducting networks built by graphene sheets and carbon nanoparticles for high-performance silicon anode. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2824-8	9.5	133
12	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	21.8	401

11	Synthesis of graphene/polyaniline composite nanosheets mediated by polymerized ionic liquid. <i>Chemical Communications</i> , 2010 , 46, 3663-5	5.8	158
10	Dispersion of graphene sheets in ionic liquid [bmim][PF6] stabilized by an ionic liquid polymer. <i>Chemical Communications</i> , 2010 , 46, 386-8	5.8	157
9	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	3.8	58
8	Shape controlled synthesis of palladium nanocrystals by combination of oleylamine and alkylammonium alkylcarbamate and their catalytic activity. <i>Chemical Communications</i> , 2010 , 46, 8552-4	5.8	41
7	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		39
6	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	10	24
5	The dispersion of carbon nanotubes in water with the aid of very small amounts of ionic liquid. <i>Chemical Communications</i> , 2009 , 1897-9	5.8	61
4	Aerobic oxidation of secondary alcohols to ketones catalyzed by cobalt(II)/ZnO in poly(ethylene glycol)/CO ₂ system. <i>Catalysis Communications</i> , 2008 , 9, 2239-2243	3.2	22
3	Switching the basicity of ionic liquids by CO ₂ . <i>Green Chemistry</i> , 2008 , 10, 1142	10	85
2	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> ,	13	12
1	Anchoring ultrafine CoP and CoSb nanoparticles into rich N-doped carbon nanofibers for efficient potassium storage. <i>Science China Materials</i> , 1	7.1	2