

Xin-Xin Cao

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.

53
papers

2,794
citations

26
h-index

52
g-index

58
ext. papers

3,999
ext. citations

12.9
avg, IF

5.62
L-index

#	Paper	IF	Citations
53	Synergetic stability enhancement with magnesium and calcium ion substitution for Ni/Mn-based P2-type sodium-ion battery cathodes.. <i>Chemical Science</i> , 2022 , 13, 726-736	9.4	11
52	Enabling high-performance Na ₄ MnV(PO ₄) ₃ cathode via synergetic strategy of carbon encapsulation and nanoengineering. <i>Journal of Power Sources</i> , 2022 , 521, 230974	8.9	5
51	Organic-Inorganic Hybrid Cathode with Dual Energy Storage Mechanism for Ultra-High-Rate and Ultra-Long-Life Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021 , e2105452	24	24
50	Ion migration and defect effect of electrode materials in multivalent-ion batteries. <i>Progress in Materials Science</i> , 2021 , 125, 100911	42.2	11
49	Agitation drying synthesis of porous carbon supported Li ₃ VO ₄ as advanced anode material for lithium-ion batteries. <i>Rare Metals</i> , 2021 , 40, 3466-3476	5.5	0
48	Surface-Preferred Crystal Plane for a Stable and Reversible Zinc Anode. <i>Advanced Materials</i> , 2021 , 33, e2100187	24	121
47	Layered Barium Vanadate Cathodes for Aqueous Zinc Batteries: Enhancing Cycling Stability through Inhibition of Vanadium Dissolution. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6197-6204	6.1	6
46	Suppressing by-product via stratified adsorption effect to assist highly reversible zinc anode in aqueous electrolyte. <i>Journal of Energy Chemistry</i> , 2021 , 55, 549-556	12	49
45	Melamine-assisted synthesis of ultrafine Mo ₂ C/Mo ₂ N@N-doped carbon nanofibers for enhanced alkaline hydrogen evolution reaction activity. <i>Science China Materials</i> , 2021 , 64, 1150-1158	7.1	7
44	Perspective on the synergistic effect of chalcogenide multiphases in sodium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1694-1715	7.8	13
43	Anti-Corrosive and Zn-Ion-Regulating Composite Interlayer Enabling Long-Life Zn Metal Anodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2104361	15.6	38
42	Pseudocapacitance-dominated zinc storage enabled by nitrogen-doped carbon stabilized amorphous vanadyl phosphate. <i>Chemical Engineering Journal</i> , 2021 , 426, 131868	14.7	4
41	Electrochemical Activation of Manganese-Based Cathode in Aqueous Zinc-Ion Electrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 2002711	15.6	68
40	Sulfur-Doped Carbon-Wrapped Heterogeneous Fe ₃ O ₄ /Fe ₇ S ₈ /C Nanoplates as Stable Anode for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 308-308	5.6	2
39	In situ formation of porous LiCuVO ₄ /LiVO ₃ /C nanotubes as a high-capacity anode material for lithium ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 340-346	6.8	13
38	Sulfur-Doped Carbon-Wrapped Heterogeneous Fe ₃ O ₄ /Fe ₇ S ₈ /C Nanoplates as Stable Anode for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 344-353	5.6	17
37	Fundamentals and perspectives in developing zinc-ion battery electrolytes: a comprehensive review. <i>Energy and Environmental Science</i> , 2020 , 13, 4625-4665	35.4	176

36	Carbon quantum dot modified Na ₃ V ₂ (PO ₄) ₂ F ₃ as a high-performance cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18872-18879	13	25
35	Interlayer Doping in Layered Vanadium Oxides for Low-cost Energy Storage: Sodium-ion Batteries and Aqueous Zinc-ion Batteries. <i>ChemNanoMat</i> , 2020 , 6, 1553-1566	3.5	25
34	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. <i>Nano Research</i> , 2020 , 13, 3330-3337	10	22
33	Tuning Interface Bridging Between MoSe and Three-Dimensional Carbon Framework by Incorporation of MoC Intermediate to Boost Lithium Storage Capability. <i>Nano-Micro Letters</i> , 2020 , 12, 171	19.5	15
32	Construction of V ₂ O ₅ /NaV ₆ O ₁₅ biphasic composites as aqueous zinc-ion battery cathode. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 847, 113246	4.1	15
31	Trimetallic Hybrid Sulfides Embedded in Nitrogen-Doped Carbon Nanocubes as an Advanced Sodium-Ion Battery Anode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4567-4575	6.1	18
30	Towards a durable high performance anode material for lithium storage: stabilizing N-doped carbon encapsulated FeS nanosheets with amorphous TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16541-16552	13	16
29	Synthesis of polycrystalline K _{0.25} V ₂ O ₅ nanoparticles as cathode for aqueous zinc-ion battery. <i>Journal of Alloys and Compounds</i> , 2019 , 801, 82-89	5.7	40
28	Transition metal ion-preintercalated V ₂ O ₅ as high-performance aqueous zinc-ion battery cathode with broad temperature adaptability. <i>Nano Energy</i> , 2019 , 61, 617-625	17.1	205
27	Nanoflake-constructed porous Na ₃ V ₂ (PO ₄) ₃ /C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. <i>Nano Energy</i> , 2019 , 60, 312-323	17.1	97
26	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7355-7359	13	52
25	Vertically oriented Sn ₃ O ₄ nanoflakes directly grown on carbon fiber cloth for high-performance lithium storage. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1468-1474	6.8	8
24	Investigation of sodium vanadate as a high-performance aqueous zinc-ion battery cathode. <i>Journal of Energy Chemistry</i> , 2019 , 37, 172-175	12	20
23	Suppressing Manganese Dissolution in Potassium Manganate with Rich Oxygen Defects Engaged High-Energy-Density and Durable Aqueous Zinc-Ion Battery. <i>Advanced Functional Materials</i> , 2019 , 29, 1808375	15.6	345
22	Tin sulfide nanoparticles embedded in sulfur and nitrogen dual-doped mesoporous carbon fibers as high-performance anodes with battery-capacitive sodium storage. <i>Energy Storage Materials</i> , 2019 , 18, 366-374	19.4	78
21	Bimetallic phosphides embedded in hierarchical P-doped carbon for sodium ion battery and hydrogen evolution reaction applications. <i>Science China Materials</i> , 2019 , 62, 1857-1867	7.1	15
20	Binding MoSe ₂ with dual protection carbon for high-performance sodium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22871-22878	13	43
19	Hierarchical mesoporous MoSe ₂ @CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. <i>Energy Storage Materials</i> , 2019 , 21, 97-106	19.4	73

18	Uniform MnCoO Porous Dumbbells for Lithium-Ion Batteries and Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8730-8738	9.5	54
17	Hierarchically carbon-coated Na ₃ V ₂ (PO ₄) ₃ nanoflakes for high-rate capability and ultralong cycle-life sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 339, 162-169	14.7	46
16	Nanoflake-assembled three-dimensional Na ₃ V ₂ (PO ₄) ₃ /C cathode for high performance sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 335, 301-308	14.7	38
15	Sodium-Ion Batteries: Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodium-Ion Battery Anode (Adv. Energy Mater. 19/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870092	21.8	5
14	Caging NaV(PO) ₄ F Microcubes in Cross-Linked Graphene Enabling Ultrafast Sodium Storage and Long-Term Cycling. <i>Advanced Science</i> , 2018 , 5, 1800680	13.6	125
13	Encapsulation of CoS Nanocrystals into N/S Co-Doped Honeycomb-Like 3D Porous Carbon for High-Performance Lithium Storage. <i>Advanced Science</i> , 2018 , 5, 1800829	13.6	121
12	Electrospun Single Crystalline Fork-Like KVO as High-Performance Cathode Materials for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2018 , 6, 195	5	18
11	Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodium-Ion Battery Anode. <i>Advanced Energy Materials</i> , 2018 , 8, 1703155	21.8	284
10	Carbon-encapsulated MoSe ₂ /C nanorods derived from organic-inorganic hybrid enabling superior lithium/sodium storage performances. <i>Electrochimica Acta</i> , 2018 , 292, 339-346	6.7	33
9	In situ formation of porous graphitic carbon wrapped MnO/Ni microsphere networks as binder-free anodes for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12316-12322	13	20
8	Self-templated synthesis of N-doped CoSe ₂ /C double-shelled dodecahedra for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017 , 8, 28-34	19.4	77
7	Graphene oxide templated nitrogen-doped carbon nanosheets with superior rate capability for sodium ion batteries. <i>Carbon</i> , 2017 , 122, 82-91	10.4	35
6	Chemical Synthesis of 3D Graphene-Like Cages for Sodium-Ion Batteries Applications. <i>Advanced Energy Materials</i> , 2017 , 7, 1700797	21.8	91
5	Uniform 8LiFePO ₄ [Li ₃ V ₂ (PO ₄) ₃ /C nanoflakes for high-performance Li-ion batteries. <i>Nano Energy</i> , 2016 , 22, 48-58	17.1	69
4	Nanorod-Nanoflake Interconnected LiMnPO ₄ /LiV(PO) ₄ /C Composite for High-Rate and Long-Life Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27632-27641	9.5	38
3	Facile synthesis of potassium vanadate cathode material with superior cycling stability for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 275, 694-701	8.9	49
2	Hydrogen Bond-Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. <i>Advanced Functional Materials</i> , 2015 , 2112609	15.6	7
1	Fundamental Understanding and Effect of Anionic Chemistry in Zinc Batteries. <i>Energy and Environmental Materials</i> ,	13	4

