

# Xin-Xin Cao

## List of Publications by Year in descending order

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57  
papers

5,273  
citations

117571

34  
h-index

149623

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58  
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58  
docs citations

58  
times ranked

4082  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.8	568
2	Fundamentals and perspectives in developing zinc-ion battery electrolytes: a comprehensive review. <i>Energy and Environmental Science</i> , 2020, 13, 4625-4665.	15.6	497
3	Surface-Preferred Crystal Plane for a Stable and Reversible Zinc Anode. <i>Advanced Materials</i> , 2021, 33, e2100187.	11.1	432
4	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.	10.2	374
5	Transition metal ion-preintercalated V <sub>2</sub> O <sub>5</sub> as high-performance aqueous zinc-ion battery cathode with broad temperature adaptability. <i>Nano Energy</i> , 2019, 61, 617-625.	8.2	340
6	Caging Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> Microcubes in Cross-Linked Graphene Enabling Ultrafast Sodium Storage and Long-Term Cycling. <i>Advanced Science</i> , 2018, 5, 1800680.	5.6	182
7	Encapsulation of CoS <sub>x</sub> Nanocrystals into N/S Co-Doped Honeycomb-Like 3D Porous Carbon for High-Performance Lithium Storage. <i>Advanced Science</i> , 2018, 5, 1800829.	5.6	172
8	Nanoflake-constructed porous Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. <i>Nano Energy</i> , 2019, 60, 312-323.	8.2	154
9	Anti-Corrosive and Zn-Ion-Regulating Composite Interlayer Enabling Long-Life Zn Metal Anodes. <i>Advanced Functional Materials</i> , 2021, 31, 2104361.	7.8	135
10	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.	7.1	132
11	Organic-Inorganic Hybrid Cathode with Dual Energy-Storage Mechanism for Ultrahigh-Rate and Ultralong-Life Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2105452.	11.1	129
12	Hierarchical mesoporous MoSe <sub>2</sub> @CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. <i>Energy Storage Materials</i> , 2019, 21, 97-106.	9.5	128
13	Electrochemical Activation of Manganese-Based Cathode in Aqueous Zinc-Ion Electrolyte. <i>Advanced Functional Materials</i> , 2020, 30, 2002711.	7.8	120
14	Chemical Synthesis of 3D Graphene-Like Cages for Sodium-Ion Batteries Applications. <i>Advanced Energy Materials</i> , 2017, 7, 1700797.	10.2	113
15	Self-templated synthesis of N-doped CoSe <sub>2</sub> /C double-shelled dodecahedra for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 8, 28-34.	9.5	107
16	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.	9.5	101
17	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7355-7359.	5.2	84
18	Uniform MnCo <sub>2</sub> O <sub>4</sub> Porous Dumbbells for Lithium-Ion Batteries and Oxygen Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8730-8738.	4.0	83

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19	Hydrogen Bond-Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	82
20	Uniform 8LiFePO <sub>4</sub> ·Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C nanoflakes for high-performance Li-ion batteries. <i>Nano Energy</i> , 2016, 22, 48-58.	8.2	80
21	Ion migration and defect effect of electrode materials in multivalent-ion batteries. <i>Progress in Materials Science</i> , 2022, 125, 100911.	16.0	79
22	Binding MoSe <sub>2</sub> with dual protection carbon for high-performance sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22871-22878.	5.2	69
23	Hierarchically carbon-coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanoflakes for high-rate capability and ultralong cycle-life sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018, 339, 162-169.	6.6	67
24	Carbon quantum dot modified Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as a high-performance cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18872-18879.	5.2	59
25	Nanoflake-assembled three-dimensional Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cathode for high performance sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018, 335, 301-308.	6.6	57
26	Synthesis of polycrystalline K <sub>0.25</sub> V <sub>2</sub> O <sub>5</sub> nanoparticles as cathode for aqueous zinc-ion battery. <i>Journal of Alloys and Compounds</i> , 2019, 801, 82-89.	2.8	56
27	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.	4.0	55
28	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.	3.7	54
29	Tuning Interface Bridging Between MoSe <sub>2</sub> and Three-Dimensional Carbon Framework by Incorporation of MoC Intermediate to Boost Lithium Storage Capability. <i>Nano-Micro Letters</i> , 2020, 12, 171.	14.4	53
30	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.	1.5	49
31	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. <i>Nano Research</i> , 2020, 13, 3330-3337.	5.8	49
32	Nanorod-Nanoflake Interconnected LiMnPO <sub>4</sub> ·Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C Composite for High-Rate and Long-Life Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27632-27641.	4.0	44
33	Graphene oxide templated nitrogen-doped carbon nanosheets with superior rate capability for sodium ion batteries. <i>Carbon</i> , 2017, 122, 82-91.	5.4	43
34	Carbon-encapsulated MoSe <sub>2</sub> /C nanorods derived from organic-inorganic hybrid enabling superior lithium/sodium storage performances. <i>Electrochimica Acta</i> , 2018, 292, 339-346.	2.6	40
35	Electrospun Single Crystalline Fork-Like K <sub>2</sub> V <sub>8</sub> O <sub>21</sub> as High-Performance Cathode Materials for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2018, 6, 195.	1.8	34
36	Towards a durable high performance anode material for lithium storage: stabilizing N-doped carbon encapsulated FeS nanosheets with amorphous TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 16541-16552.	5.2	30

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37	Vanadium-modified hard carbon spheres with sufficient pseudographitic domains as high-performance anode for sodium-ion batteries. , 2023, 5, .		30
38	Investigation of sodium vanadate as a high-performance aqueous zinc-ion battery cathode. Journal of Energy Chemistry, 2019, 37, 172-175.	7.1	29
39	Trimetallic Hybrid Sulfides Embedded in Nitrogen-Doped Carbon Nanocubes as an Advanced Sodium-Ion Battery Anode. ACS Applied Energy Materials, 2019, 2, 4567-4575.	2.5	28
40	Construction of V <sub>2</sub> O <sub>5</sub> /NaV <sub>6</sub> O <sub>15</sub> biphasic composites as aqueous zinc-ion battery cathode. Journal of Electroanalytical Chemistry, 2019, 847, 113246.	1.9	27
41	Sulfur-doped Carbon-wrapped Heterogeneous Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>7</sub> S <sub>8</sub> /C Nanoplates as Stable Anode for Lithium-ion Batteries. Batteries and Supercaps, 2020, 3, 344-353.	2.4	25
42	Melamine-assisted synthesis of ultrafine Mo <sub>2</sub> C/Mo <sub>2</sub> N@N-doped carbon nanofibers for enhanced alkaline hydrogen evolution reaction activity. Science China Materials, 2021, 64, 1150-1158.	3.5	25
43	Copper-Stabilized P <sup>2+</sup> -Type Layered Manganese Oxide Cathodes for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 58665-58673.	4.0	24
44	<i>In situ</i> formation of porous graphitic carbon wrapped MnO/Ni microsphere networks as binder-free anodes for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 12316-12322.	5.2	23
45	Bimetallic phosphides embedded in hierarchical P-doped carbon for sodium ion battery and hydrogen evolution reaction applications. Science China Materials, 2019, 62, 1857-1867.	3.5	23
46	Perspective on the synergistic effect of chalcogenide multiphases in sodium-ion batteries. Materials Chemistry Frontiers, 2021, 5, 1694-1715.	3.2	22
47	Agitation drying synthesis of porous carbon supported Li <sub>3</sub> VO <sub>4</sub> as advanced anode material for lithium-ion batteries. Rare Metals, 2021, 40, 3466-3476.	3.6	20
48	Pseudocapacitance-dominated zinc storage enabled by nitrogen-doped carbon stabilized amorphous vanadyl phosphate. Chemical Engineering Journal, 2021, 426, 131868.	6.6	20
49	Crystal plane induced in-situ electrochemical activation of manganese-based cathode enable long-term aqueous zinc-ion batteries. Green Energy and Environment, 2023, 8, 1429-1436.	4.7	20
50	In situ formation of porous LiCuVO <sub>4</sub> /LiVO <sub>3</sub> /C nanotubes as a high-capacity anode material for lithium ion batteries. Inorganic Chemistry Frontiers, 2020, 7, 340-346.	3.0	19
51	Layered Barium Vanadate Cathodes for Aqueous Zinc Batteries: Enhancing Cycling Stability through Inhibition of Vanadium Dissolution. ACS Applied Energy Materials, 2021, 4, 6197-6204.	2.5	18
52	Fundamental Understanding and Effect of Anionic Chemistry in Zinc Batteries. Energy and Environmental Materials, 2022, 5, 186-200.	7.3	18
53	Enabling high-performance Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> cathode via synergetic strategy of carbon encapsulation and nanoengineering. Journal of Power Sources, 2022, 521, 230974.	4.0	17
54	Vertically oriented Sn <sub>3</sub> O <sub>4</sub> nanoflakes directly grown on carbon fiber cloth for high-performance lithium storage. Inorganic Chemistry Frontiers, 2019, 6, 1468-1474.	3.0	14

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55	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). Advanced Energy Materials, 2018, 8, 1870092.	10.2	9
56	Construction of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> @C/CNTs nanocomposites with three-dimensional conductive network as cathode materials for sodium-ion batteries. Journal of Electroanalytical Chemistry, 2022, 920, 116613.	1.9	8
57	Sulfur-Doped Carbon-Wrapped Heterogeneous Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>7</sub> S <sub>8</sub> /C Nanoplates as Stable Anode for Lithium-ion Batteries. Batteries and Supercaps, 2020, 3, 308-308.	2.4	3