Xin-Xin Cao

List of Publications by Year
in descending order

57	5,273	117625	149698
papers	citations	34 h-index	56 g-index

58	58	58	4082
all docs	docs citations	times ranked	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. Advanced Functional Materials, 2019, 29, 1808375.	14.9	568
2	Fundamentals and perspectives in developing zinc-ion battery electrolytes: a comprehensive review. Energy and Environmental Science, 2020, 13, 4625-4665.	30.8	497
3	Surface‐Preferred Crystal Plane for a Stable and Reversible Zinc Anode. Advanced Materials, 2021, 33, e2100187.	21.0	432
4	Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodium‐Ion Battery Anode. Advanced Energy Materials, 2018, 8, 1703155.	19.5	374
5	Transition metal ion-preintercalated V2O5 as high-performance aqueous zinc-ion battery cathode with broad temperature adaptability. Nano Energy, 2019, 61, 617-625.	16.0	340
6	Caging Na₃V₂(PO₄)₂F₃ Microcubes in Cross‐Linked Graphene Enabling Ultrafast Sodium Storage and Long‐Term Cycling. Advanced Science, 2018, 5, 1800680.	11.2	182
7	Encapsulation of CoS_x Nanocrystals into N/S Co‐Doped Honeycomb‐Like 3D Porous Carbon for High‐Performance Lithium Storage. Advanced Science, 2018, 5, 1800829.	11.2	172
8	Nanoflake-constructed porous Na3V2(PO4)3/C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. Nano Energy, 2019, 60, 312-323.	16.0	154
9	Anti‐Corrosive and Zn‐Ion‐Regulating Composite Interlayer Enabling Long‐Life Zn Metal Anodes. Advanced Functional Materials, 2021, 31, 2104361.	14.9	135
10	Suppressing by-product via stratified adsorption effect to assist highly reversible zinc anode in aqueous electrolyte. Journal of Energy Chemistry, 2021, 55, 549-556.	12.9	132
11	Organic–Inorganic Hybrid Cathode with Dual Energy‐Storage Mechanism for Ultrahigh‐Rate and Ultralong‐Life Aqueous Zinc‐Ion Batteries. Advanced Materials, 2022, 34, e2105452.	21.0	129
12	Hierarchical mesoporous MoSe2@CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. Energy Storage Materials, 2019, 21, 97-106.	18.0	128
13	Electrochemical Activation of Manganese‐Based Cathode in Aqueous Zinc‐Ion Electrolyte. Advanced Functional Materials, 2020, 30, 2002711.	14.9	120
14	Chemical Synthesis of 3D Graphene‐Like Cages for Sodium‐Ion Batteries Applications. Advanced Energy Materials, 2017, 7, 1700797.	19.5	113
15	Self-templated synthesis of N-doped CoSe2/C double-shelled dodecahedra for high-performance supercapacitors. Energy Storage Materials, 2017, 8, 28-34.	18.0	107
16	Tin sulfide nanoparticles embedded in sulfur and nitrogen dual-doped mesoporous carbon fibers as high-performance anodes with battery-capacitive sodium storage. Energy Storage Materials, 2019, 18, 366-374.	18.0	101
17	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. Journal of Materials Chemistry A, 2019, 7, 7355-7359.	10.3	84
18	Uniform MnCo₂O₄ Porous Dumbbells for Lithium-Ion Batteries and Oxygen Evolution Reactions. ACS Applied Materials & Interfaces, 2018, 10, 8730-8738.	8.0	83

#	Article	IF	Citations
19	Hydrogen Bondâ€Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. Advanced Functional Materials, 2022, 32, .	14.9	82
20	Uniform 8LiFePO 4 Â·Li 3 V 2 (PO 4) 3 /C nanoflakes for high-performance Li-ion batteries. Nano Energy, 2016, 22, 48-58.	16.0	80
21	Ion migration and defect effect of electrode materials in multivalent-ion batteries. Progress in Materials Science, 2022, 125, 100911.	32.8	79
22	Binding MoSe₂ with dual protection carbon for high-performance sodium storage. Journal of Materials Chemistry A, 2019, 7, 22871-22878.	10.3	69
23	Hierarchically carbon-coated Na3V2(PO4)3 nanoflakes for high-rate capability and ultralong cycle-life sodium ion batteries. Chemical Engineering Journal, 2018, 339, 162-169.	12.7	67
24	Carbon quantum dot modified Na₃V₂(PO₄)₂F₃as a high-performance cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 18872-18879.	10.3	59
25	Nanoflake-assembled three-dimensional Na3V2(PO4)3/C cathode for high performance sodium ion batteries. Chemical Engineering Journal, 2018, 335, 301-308.	12.7	57
26	Synthesis of polycrystalline K0.25V2O5 nanoparticles as cathode for aqueous zinc-ion battery. Journal of Alloys and Compounds, 2019, 801, 82-89.	5.5	56
27	Facile synthesis of potassium vanadate cathode material with superior cycling stability for lithium ion batteries. Journal of Power Sources, 2015, 275, 694-701.	7.8	55
28	Synergetic stability enhancement with magnesium and calcium ion substitution for Ni/Mn-based P2-type sodium-ion battery cathodes. Chemical Science, 2022, 13, 726-736.	7.4	54
29	Tuning Interface Bridging Between MoSe2 and Three-Dimensional Carbon Framework by Incorporation of MoC Intermediate to Boost Lithium Storage Capability. Nano-Micro Letters, 2020, 12, 171.	27.0	53
30	Interlayer Doping in Layered Vanadium Oxides for Lowâ€cost Energy Storage: Sodiumâ€ion Batteries and Aqueous Zincâ€ion Batteries. ChemNanoMat, 2020, 6, 1553-1566.	2.8	49
31	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. Nano Research, 2020, 13, 3330-3337.	10.4	49
32	Nanorod-Nanoflake Interconnected LiMnPO₄Â·Li₃V₂(PO₄)₃/C Composite for High-Rate and Long-Life Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 27632-27641.	8.0	44
33	Graphene oxide templated nitrogen-doped carbon nanosheets with superior rate capability for sodium ion batteries. Carbon, 2017, 122, 82-91.	10.3	43
34	Carbon-encapsulated MoSe2/C nanorods derived from organic-inorganic hybrid enabling superior lithium/sodium storageÂperformances. Electrochimica Acta, 2018, 292, 339-346.	5.2	40
35	Electrospun Single Crystalline Fork-Like K2V8O21 as High-Performance Cathode Materials for Lithium-Ion Batteries. Frontiers in Chemistry, 2018, 6, 195.	3.6	34
36	Towards a durable high performance anode material for lithium storage: stabilizing N-doped carbon encapsulated FeS nanosheets with amorphous TiO₂. Journal of Materials Chemistry A, 2019, 7, 16541-16552.	10.3	30

#	Article	IF	Citations
37	Vanadiumâ€modified hard carbon spheres with sufficient pseudographitic domains as highâ€performance anode for sodiumâ€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.	12.9	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.	5.1	28
40	Construction of V2O5/NaV6O15 biphase composites as aqueous zinc-ion battery cathode. Journal of Electroanalytical Chemistry, 2019, 847, 113246.	3.8	27
41	Sulfurâ€Doped Carbonâ€Wrapped Heterogeneous Fe₃O₄/Fe₇S₈/C Nanoplates as Stable Anode for Lithiumâ€Ion Batteries. Batteries and Supercaps, 2020, 3, 344-353.	4.7	25
42	Melamine-assisted synthesis of ultrafine Mo2C/Mo2N@N-doped carbon nanofibers for enhanced alkaline hydrogen evolution reaction activity. Science China Materials, 2021, 64, 1150-1158.	6.3	25
43	Copper-Stabilized Pâ€²2-Type Layered Manganese Oxide Cathodes for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 58665-58673.	8.0	24
44	In situ 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.	10.3	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.	6.3	23
46	Perspective on the synergistic effect of chalcogenide multiphases in sodium-ion batteries. Materials Chemistry Frontiers, 2021, 5, 1694-1715.	5.9	22
47	Agitation drying synthesis of porous carbon supported Li3VO4 as advanced anode material for lithium-ion batteries. Rare Metals, 2021, 40, 3466-3476.	7.1	20
48	Pseudocapacitance-dominated zinc storage enabled by nitrogen-doped carbon stabilized amorphous vanadyl phosphate. Chemical Engineering Journal, 2021, 426, 131868.	12.7	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.	8.7	20
50	In situ formation of porous LiCuVO4/LiVO3/C nanotubes as a high-capacity anode material for lithium ion batteries. Inorganic Chemistry Frontiers, 2020, 7, 340-346.	6.0	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.	5.1	18
52	Fundamental Understanding and Effect of Anionic Chemistry in Zinc Batteries. Energy and Environmental Materials, 2022, 5, 186-200.	12.8	18
53	Enabling high-performance Na4MnV(PO4)3 cathode via synergetic strategy of carbon encapsulation and nanoengineering. Journal of Power Sources, 2022, 521, 230974.	7.8	17
54	Vertically oriented Sn₃O₄ nanoflakes directly grown on carbon fiber cloth for high-performance lithium storage. Inorganic Chemistry Frontiers, 2019, 6, 1468-1474.	6.0	14

#	Article	IF	Citations
55	Sodiumâ€Ion Batteries: Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodiumâ€Ion Battery Anode (Adv. Energy Mater. 19/2018). Advanced Energy Materials, 2018, 8, 1870092.	19.5	9
56	Construction of Na3V2(PO4)2F3@C/CNTs nanocomposites with three-dimensional conductive network as cathode materials for sodium-ion batteries. Journal of Electroanalytical Chemistry, 2022, 920, 116613.	3.8	8
57	Sulfurâ€Doped Carbonâ€Wrapped Heterogeneous Fe 3 O 4 /Fe 7 S 8 /C Nanoplates as Stable Anode for Lithiumâ€Ion Batteries. Batteries and Supercaps, 2020, 3, 308-308.	4.7	3