

Xin-Xin Cao

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1344839/xin-xin-cao-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
52	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
51	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
50	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
49	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
48	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
47	Surface-Preferred Crystal Plane for a Stable and Reversible Zinc Anode. <i>Advanced Materials</i> , 2021 , 33, e2100187	24	121
46	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
45	Chemical Synthesis of 3D Graphene-Like Cages for Sodium-Ion Batteries Applications. <i>Advanced Energy Materials</i> , 2017 , 7, 1700797	21.8	91
44	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
43	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
42	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
41	Uniform 8LiFePO ₄ 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
40	Electrochemical Activation of Manganese-Based Cathode in Aqueous Zinc-Ion Electrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 2002711	15.6	68
39	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
38	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7355-7359	13	52
37	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

36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. <i>Nano Research</i> , 2020 , 13, 3330-3337	10	22
23	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
22	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
21	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
20	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
19	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

18	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
17	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
16	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
15	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
14	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
13	Perspective on the synergistic effect of chalcogenide multiphases in sodium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1694-1715	7.8	13
12	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
11	Ion migration and defect effect of electrode materials in multivalent-ion batteries. <i>Progress in Materials Science</i> , 2021 , 125, 100911	42.2	11
10	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
9	Hydrogen Bond-Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. <i>Advanced Functional Materials</i> , 2112609	15.6	7
8	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
7	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
6	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
5	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
4	Fundamental Understanding and Effect of Anionic Chemistry in Zinc Batteries. <i>Energy and Environmental Materials</i> ,	13	4
3	Pseudocapacitance-dominated zinc storage enabled by nitrogen-doped carbon stabilized amorphous vanadyl phosphate. <i>Chemical Engineering Journal</i> , 2021 , 426, 131868	14.7	4
2	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
1	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

