

Fangyu Xiong

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69
papers

2,843
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27
h-index

52
g-index

73
ext. papers

3,730
ext. citations

12.5
avg, IF

5.63
L-index

#	Paper	IF	Citations
69	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. <i>Advanced Materials</i> , 2017 , 29, 1602300	24	435
68	Three-Dimensional Crumpled Reduced Graphene Oxide/MoS ₂ Nanoflowers: A Stable Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12625-30	9.5	165
67	Nanoflake-Assembled Hierarchical Na ₃ V ₂ (PO ₄) ₃ /C Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. <i>Advanced Energy Materials</i> , 2015 , 5, 1401963	21.8	144
66	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. <i>Advanced Energy Materials</i> , 2019 , 9, 1803260	21.8	143
65	Magnesium storage performance and mechanism of CuS cathode. <i>Nano Energy</i> , 2018 , 47, 210-216	17.1	127
64	Vanadium-Based Nanomaterials: A Promising Family for Emerging Metal-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1904398	15.6	123
63	Interlayer-Spacing-Regulated VOPO Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. <i>Advanced Materials</i> , 2018 , 30, e1801984	24	115
62	Vanadium Oxide Pillared by Interlayer Mg ²⁺ Ions and Water as Ultralong-Life Cathodes for Magnesium-Ion Batteries. <i>Chem</i> , 2019 , 5, 1194-1209	16.2	100
61	Multidimensional Synergistic Nanoarchitecture Exhibiting Highly Stable and Ultrafast Sodium-Ion Storage. <i>Advanced Materials</i> , 2018 , 30, e1707122	24	94
60	Vanadium-Based Cathode Materials for Rechargeable Multivalent Batteries: Challenges and Opportunities. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 169-199	29.3	90
59	VO Nanoflakes as the Cathode Material of Hybrid Magnesium-Lithium-Ion Batteries with High Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17060-17066	9.5	82
58	Robust three-dimensional graphene skeleton encapsulated Na ₃ V ₂ O ₂ (PO ₄) ₂ F nanoparticles as a high-rate and long-life cathode of sodium-ion batteries. <i>Nano Energy</i> , 2017 , 41, 452-459	17.1	78
57	Top-down fabrication of three-dimensional porous V ₂ O ₅ hierarchical microplates with tunable porosity for improved lithium battery performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3297-3302 ¹³		72
56	HVO Nanowires as High-Capacity Cathode Materials for Magnesium-Based Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28667-28673	9.5	69
55	Three-dimensional porous V ₂ O ₅ hierarchical octahedrons with adjustable pore architectures for long-life lithium batteries. <i>Nano Research</i> , 2015 , 8, 481-490	10	67
54	A rechargeable aluminum-ion battery based on a VS nanosheet cathode. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22563-22568	3.6	62
53	Nickel-iron bimetallic diselenides with enhanced kinetics for high-capacity and long-life magnesium batteries. <i>Nano Energy</i> , 2018 , 54, 360-366	17.1	50

52	Active sites enriched hard carbon porous nanobelts for stable and high-capacity potassium-ion storage. <i>Nano Energy</i> , 2020 , 77, 105018	17.1	48
51	Three-dimensional graphene frameworks wrapped Li ₃ V ₂ (PO ₄) ₃ with reversible topotactic sodium-ion storage. <i>Nano Energy</i> , 2017 , 32, 347-352	17.1	44
50	Alkali ions pre-intercalated layered vanadium oxide nanowires for stable magnesium ions storage. <i>Nano Energy</i> , 2019 , 58, 347-354	17.1	44
49	Revealing the atomistic origin of the disorder-enhanced Na-storage performance in NaFePO ₄ battery cathode. <i>Nano Energy</i> , 2019 , 57, 608-615	17.1	42
48	Manganese ion pre-intercalated hydrated vanadium oxide as a high-performance cathode for magnesium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10644-10650	13	39
47	Surface Pseudocapacitive Mechanism of Molybdenum Phosphide for High-Energy and High-Power Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , 2019 , 9, 1900967	21.8	37
46	VOPO ₂ H ₂ O as a new cathode material for rechargeable Ca-ion batteries. <i>Chemical Communications</i> , 2020 , 56, 3805-3808	5.8	35
45	Crystal regulation towards rechargeable magnesium battery cathode materials. <i>Materials Horizons</i> , 2020 , 7, 1971-1995	14.4	33
44	Universal construction of ultrafine metal oxides coupled in N-enriched 3D carbon nanofibers for high-performance lithium/sodium storage. <i>Nano Energy</i> , 2020 , 67, 104222	17.1	32
43	Salt-controlled dissolution in pigment cathode for high-capacity and long-life magnesium organic batteries. <i>Nano Energy</i> , 2019 , 65, 103902	17.1	30
42	Hierarchical Copper Sulfide Porous Nanocages for Rechargeable Multivalent-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10471-10478	9.5	25
41	Robust LiTi ₂ (PO ₄) ₃ microflowers as high-rate and long-life cathodes for Mg-based hybrid-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13950-13956	13	24
40	Pseudocapacitive layered birnessite sodium manganese dioxide for high-rate non-aqueous sodium ion capacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12259-12266	13	24
39	Interchain-Expanded Vanadium Tetrasulfide with Fast Kinetics for Rechargeable Magnesium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31954-31961	9.5	23
38	Intercalation pseudocapacitance of FeVO ₄ ·nH ₂ O nanowires anode for high-energy and high-power sodium-ion capacitor. <i>Nano Energy</i> , 2020 , 73, 104838	17.1	23
37	Lithium- and Magnesium-Storage Mechanisms of Novel Hexagonal NbSe. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36988-36995	9.5	23
36	Hierarchical MnO/Graphene Microflowers Fabricated via a Selective Dissolution Strategy for Alkali-Metal-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14120-14125	9.5	21
35	Multi-electron reactions of vanadium-based nanomaterials for high-capacity lithium batteries: challenges and opportunities. <i>Materials Today Nano</i> , 2020 , 10, 100073	9.7	21

34	Revealing the Origin of Highly Efficient Polysulfide Anchoring and Transformation on Anion-Substituted Vanadium Nitride Host. <i>Advanced Functional Materials</i> , 2021 , 31, 2008034	15.6	19
33	Recent Progress and Challenges in the Optimization of Electrode Materials for Rechargeable Magnesium Batteries. <i>Small</i> , 2021 , 17, e2004108	11	18
32	Fast and stable Mg ²⁺ intercalation in a high voltage NaV ₂ O ₂ (PO ₄) ₂ F/rGO cathode material for magnesium-ion batteries. <i>Science China Materials</i> , 2020 , 63, 1651-1662	7.1	15
31	Crystal defect modulation in cathode materials for non-lithium ion batteries: Progress and challenges. <i>Materials Today</i> , 2021 , 45, 169-190	21.8	15
30	Organic-Inorganic Superlattices of Vanadium Oxide@Polyaniline for High-Performance Magnesium-Ion Batteries. <i>ChemSusChem</i> , 2021 , 14, 2093-2099	8.3	14
29	High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al ³⁺ insertion. <i>Cell Reports Physical Science</i> , 2021 , 2, 100354	6.1	14
28	Novel hollow Ni _{0.33} Co _{0.67} Se nanoprisms for high capacity lithium storage. <i>Nano Research</i> , 2019 , 12, 1371-1374	10	13
27	Amorphous CuSnO ₃ nanospheres anchored on interconnected carbon networks for use as novel anode materials for high-performance sodium ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2756-2762	6.8	13
26	Surface pseudocapacitance of mesoporous Mo ₃ N ₂ nanowire anode toward reversible high-rate sodium-ion storage. <i>Journal of Energy Chemistry</i> , 2021 , 55, 295-303	12	12
25	Unexpected discovery of magnesium-vanadium spinel oxide containing extractable Mg ²⁺ as a high-capacity cathode material for magnesium ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 405, 127005	14.7	11
24	MOF derived TiO ₂ with reversible magnesium pseudocapacitance for ultralong-life Mg metal batteries. <i>Chemical Engineering Journal</i> , 2021 , 418, 128491	14.7	10
23	Role of Amorphous Phases in Enhancing Performances of Electrode Materials for Alkali Ion Batteries. <i>Frontiers in Materials</i> , 2020 , 6,	4	9
22	Insight into the capacity decay of layered sodium nickel manganese oxide cathodes in sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153093	5.7	8
21	Constructing a disorder/order structure for enhanced magnesium storage. <i>Chemical Engineering Journal</i> , 2020 , 382, 123049	14.7	8
20	Electrochemical activation induced multi-valence variation of (NH) ₄ VO as a high-performance cathode material for zinc-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 3615-3618	5.8	7
19	Polyaniline nanoarrays/carbon cloth as binder-free and flexible cathode for magnesium ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 133772	14.7	6
18	Revealing the role of the amorphous phase in Na _{0.74} CoO ₂ /C/N composite cathode. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152616	5.7	6
17	Intercalation-Type V ₂ O ₃ with Fast Mg ²⁺ Diffusion Kinetics for High-Capacity and Long-Life Mg-Ion Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16164-16171	8.3	5

16	Improved zinc-ion storage performance of the metal-free organic anode by the effect of binder. <i>Chemical Engineering Journal</i> , 2022 , 428, 131092	14.7	5
15	Energy Storage: Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage (Adv. Mater. 20/2017). <i>Advanced Materials</i> , 2017 , 29,	24	4
14	A high energy density hybrid magnesium-lithium ion battery based on LiV3O8@GO cathode. <i>Electrochimica Acta</i> , 2019 , 320, 134556	6.7	4
13	Low-strain TiP ₂ O ₇ with three-dimensional ion channels as long-life and high-rate anode material for Mg-ion batteries 2022 , 1, 140-147		4
12	In situ construction of amorphous hierarchical iron oxyhydroxide nanotubes via selective dissolution-regrowth strategy for enhanced lithium storage. <i>Science China Materials</i> , 2020 , 63, 1993-2007 ¹		4
11	Structural properties and electrochemical performance of different polymorphs of Nb ₂ O ₅ in magnesium-based batteries. <i>Journal of Energy Chemistry</i> , 2021 , 58, 586-592	12	4
10	Porous yolk-shell structured Na ₃ (VO) ₂ (PO ₄) ₂ F microspheres with enhanced Na-ion storage properties. <i>Journal of Materials Science and Technology</i> , 2021 , 83, 83-89	9.1	3
9	Iron metal anode for aqueous rechargeable batteries. <i>Materials Today Advances</i> , 2021 , 11, 100156	7.4	3
8	Polyol Solvation Effect on Tuning the Universal Growth of Binary Metal Oxide Nanodots@Graphene Oxide Heterostructures for Electrochemical Applications. <i>Chemistry - A European Journal</i> , 2019 , 25, 14604-14612	4.8	2
7	Dual redox groups enable organic cathode material with a high capacity for aqueous zinc-organic batteries. <i>Electrochimica Acta</i> , 2021 , 139620	6.7	2
6	Operando Observation of Structural Evolution and Kinetics of Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ at Elevated Temperature. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 690-693	2.2	2
5	Revealing the Multi-Electron Reaction Mechanism of Na V O (PO) F Towards Improved Lithium Storage. <i>ChemSusChem</i> , 2021 , 14, 2984-2991	8.3	1
4	CaV ₆ O ₁₆ ·8H ₂ O with Ca ²⁺ Pillar and Water Lubrication as a High-Rate and Long-Life Cathode Material for Ca-Ion Batteries. <i>Advanced Functional Materials</i> , 2113030	15.6	1
3	Flexible three-dimensional-networked iron vanadate nanosheet arrays/carbon cloths as high-performance cathodes for magnesium ion batteries. <i>Science China Materials</i> , 1	7.1	1
2	Mo C Nanoparticles Embedded in Carbon Nanowires with Surface Pseudocapacitance Enables High-Energy and High-Power Sodium Ion Capacitors.. <i>Small</i> , 2022 , e2200805	11	1
1	A room-temperature rechargeable dual-plating lithium-aluminium battery. <i>Chemical Communications</i> , 2021 , 57, 11529-11532	5.8	0