

Guozhao Fang

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.

86

papers

7,323

citations

40

h-index

85

g-index

93

ext. papers

9,909

ext. citations

12.2

avg, IF

6.68

L-index

#	Paper	IF	Citations
86	Construction of graphitic carbon quantum dots-modified yolk-shell Co ₃ O ₄ microsphere for high-performance lithium storage. <i>Journal of Materials Science</i> , 2022 , 57, 3586-3600	4.3	0
85	Improving performance of zinc-manganese battery via efficient deposition/dissolution chemistry. <i>Energy Storage Materials</i> , 2022 , 46, 165-174	19.4	1
84	Electrolyte/electrode interfacial electrochemical behaviors and optimization strategies in aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2022 , 45, 618-646	19.4	22
83	Building Ultra-Stable and Low-Polarization Composite Zn Anode Interface via Hydrated Polyzwitterionic Electrolyte Construction.. <i>Nano-Micro Letters</i> , 2022 , 14, 93	19.5	3
82	N/Br co-doped C coating Zn ₂ VO ₄ as excellent electrochemical performance cathode material for aqueous zinc ion batteries. <i>Materials Letters</i> , 2022 , 315, 131949	3.3	
81	Improved working voltage and high rate performance of sodium vanadate cathode materials for aqueous zinc ion batteries by altering synthetic solution pH guiding the structure change. <i>Materials Today Communications</i> , 2022 , 31, 103460	2.5	1
80	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
79	Progress and prospect of low-temperature zinc metal batteries 2021 ,		38
78	Ion migration and defect effect of electrode materials in multivalent-ion batteries. <i>Progress in Materials Science</i> , 2021 , 125, 100911	42.2	11
77	Interfacial thermodynamics-inspired electrolyte strategy to regulate output voltage and energy density of battery chemistry. <i>Science Bulletin</i> , 2021 ,	10.6	6
76	MOF-derived porous carbon inlaid with MnO nanoparticles as stable aqueous Zn-ion battery cathodes. <i>Dalton Transactions</i> , 2021 , 50, 17723-17733	4.3	2
75	Surface-Preferred Crystal Plane for a Stable and Reversible Zinc Anode. <i>Advanced Materials</i> , 2021 , 33, e2100187	24	121
74	Porous structure ZnV ₂ O ₄ /C-N composite activating vanadium-based cathode in aqueous zinc-ion batteries. <i>Materials Today Communications</i> , 2021 , 27, 102271	2.5	5
73	Mechanistic Insights of Mg ²⁺ -Electrolyte Additive for High-Energy and Long-Life Zinc-Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2021 , 11, 2101158	21.8	30
72	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
71	Perspective on the synergistic effect of chalcogenide multiphases in sodium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1694-1715	7.8	13
70	Fundamentals and perspectives of electrolyte additives for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2021 , 34, 545-562	19.4	102

69	Improved electrochemical performance of ZnMn ₂ O ₄ /CuO composite as cathode materials for aqueous zinc-ion batteries. <i>Ionics</i> , 2021 , 27, 4783	2.7	0
68	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
67	In Situ Defect Induction in Close-Packed Lattice Plane for the Efficient Zinc Ion Storage. <i>Small</i> , 2021 , 17, e2101944	11	7
66	Pseudocapacitance-dominated zinc storage enabled by nitrogen-doped carbon stabilized amorphous vanadyl phosphate. <i>Chemical Engineering Journal</i> , 2021 , 426, 131868	14.7	4
65	Improving stability and reversibility via fluorine doping in aqueous zinc-manganese batteries. <i>Materials Today Energy</i> , 2021 , 22, 100851	7	5
64	Electrochemical Activation of Manganese-Based Cathode in Aqueous Zinc-Ion Electrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 2002711	15.6	68
63	Interfacial chemical binding and improved kinetics assisting stable aqueous ZnMnO ₂ batteries. <i>Materials Today Energy</i> , 2020 , 17, 100475	7	30
62	Zn/MnO ₂ battery chemistry with dissolution-deposition mechanism. <i>Materials Today Energy</i> , 2020 , 16, 100396	7	135
61	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
60	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
59	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. <i>Nano Research</i> , 2020 , 13, 3330-3337	10	22
58	Electrochemically induced cationic defect in MnO intercalation cathode for aqueous zinc-ion battery. <i>Energy Storage Materials</i> , 2020 , 24, 394-401	19.4	141
57	Simultaneous Cationic and Anionic Redox Reactions Mechanism Enabling High-Rate Long-Life Aqueous Zinc-Ion Battery. <i>Advanced Functional Materials</i> , 2019 , 29, 1905267	15.6	93
56	Ultra-High Mass-Loading Cathode for Aqueous Zinc-Ion Battery Based on Graphene-Wrapped Aluminum Vanadate Nanobelts. <i>Nano-Micro Letters</i> , 2019 , 11, 69	19.5	74
55	Structural perspective on revealing energy storage behaviors of silver vanadate cathodes in aqueous zinc-ion batteries. <i>Acta Materialia</i> , 2019 , 180, 51-59	8.4	61
54	Engineering the interplanar spacing of ammonium vanadates as a high-performance aqueous zinc-ion battery cathode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 940-945	13	164
53	Highly Reversible Phase Transition Endows V ₆ O ₁₃ with Enhanced Performance as Aqueous Zinc-Ion Battery Cathode. <i>Energy Technology</i> , 2019 , 7, 1900022	3.5	47
52	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

51	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
50	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
49	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
48	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
47	Metal Organic Framework-Templated Synthesis of Bimetallic Selenides with Rich Phase Boundaries for Sodium-Ion Storage and Oxygen Evolution Reaction. <i>ACS Nano</i> , 2019 , 13, 5635-5645	16.7	247
46	VO Nanospheres with Mixed Vanadium Valences as High Electrochemically Active Aqueous Zinc-Ion Battery Cathode. <i>Nano-Micro Letters</i> , 2019 , 11, 25	19.5	197
45	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
44	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7355-7359	13	52
43	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
42	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
41	Structural Modification of V ₂ O ₅ as High-Performance Aqueous Zinc-Ion Battery Cathode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A480-A486	3.9	55
40	Observation of combination displacement/intercalation reaction in aqueous zinc-ion battery. <i>Energy Storage Materials</i> , 2019 , 18, 10-14	19.4	108
39	Cathode Interfacial Layer Formation Electrochemically Charging in Aqueous Zinc-Ion Battery. <i>ACS Nano</i> , 2019 , 13, 13456-13464	16.7	110
38	Synthesis of K _{0.25} V ₂ O ₅ hierarchical microspheres as a high-rate and long-cycle cathode for lithium metal batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 852-860	5.7	10
37	Binder-free stainless steel@Mn ₃ O ₄ nanoflower composite: a high-activity aqueous zinc-ion battery cathode with high-capacity and long-cycle-life. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9677-9683	13	196
36	Investigation of VO as a low-cost rechargeable aqueous zinc ion battery cathode. <i>Chemical Communications</i> , 2018 , 54, 4457-4460	5.8	225
35	Pilotaxitic Na _{1.1} V ₃ O _{7.9} nanoribbons/graphene as high-performance sodium ion battery and aqueous zinc ion battery cathode. <i>Energy Storage Materials</i> , 2018 , 13, 168-174	19.4	203
34	Metal-organic framework-derived porous shuttle-like vanadium oxides for sodium-ion battery application. <i>Nano Research</i> , 2018 , 11, 449-463	10	85

33	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
32	Potassium vanadates with stable structure and fast ion diffusion channel as cathode for rechargeable aqueous zinc-ion batteries. <i>Nano Energy</i> , 2018 , 51, 579-587	17.1	291
31	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
30	Rational Design and Synthesis of Li ₃ V ₂ (PO ₄) ₃ /C Nanocomposites As High-Performance Cathodes for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7250-7256	8.3	17
29	Mechanistic Insights of Zn ²⁺ Storage in Sodium Vanadates. <i>Advanced Energy Materials</i> , 2018 , 8, 1801819	21.8	167
28	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
27	Recent Advances in Aqueous Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2480-2501	20.1	959
26	Li ⁺ intercalated V ₂ O ₅ ·nH ₂ O with enlarged layer spacing and fast ion diffusion as an aqueous zinc-ion battery cathode. <i>Energy and Environmental Science</i> , 2018 , 11, 3157-3162	35.4	535
25	Metal-organic framework-templated two-dimensional hybrid bimetallic metal oxides with enhanced lithium/sodium storage capability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13983-13993	13	117
24	Three-dimensional Zn ₃ V ₃ O ₈ /carbon fiber cloth composites as binder-free anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017 , 246, 97-105	6.7	26
23	Electrochemical performance of AlV ₃ O ₉ nanoflowers for lithium ion batteries application. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 92-99	5.7	14
22	General synthesis of three-dimensional alkali metal vanadate aerogels with superior lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14408-14415	13	24
21	Oxygen-Incorporated MoS Nanosheets with Expanded Interlayers for Hydrogen Evolution Reaction and Pseudocapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33681-33689	9.5	80
20	NbO microstructures: a high-performance anode for lithium ion batteries. <i>Nanotechnology</i> , 2016 , 27, 46LT01	3.4	19
19	Nb ₂ O ₅ quantum dots embedded in MOF derived nitrogen-doped porous carbon for advanced hybrid supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17838-17847	13	83
18	Hydrothermal synthesis of sodium vanadate nanobelts as high-performance cathode materials for lithium batteries. <i>Journal of Power Sources</i> , 2016 , 325, 383-390	8.9	19
17	Template-free synthesis of highly porous V ₂ O ₅ cuboids with enhanced performance for lithium ion batteries. <i>Nanotechnology</i> , 2016 , 27, 305404	3.4	8
16	MOFs nanosheets derived porous metal oxide-coated three-dimensional substrates for lithium-ion battery applications. <i>Nano Energy</i> , 2016 , 26, 57-65	17.1	187

15	Two-dimensional hybrid nanosheets of few layered MoSe ₂ on reduced graphene oxide as anodes for long-cycle-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15302-15308	13	139
14	Effect of crystalline structure on the electrochemical properties of K _{0.25} V ₂ O ₅ nanobelt for fast Li insertion. <i>Electrochimica Acta</i> , 2016 , 218, 199-207	6.7	13
13	Na _{0.282} V ₂ O ₅ : A high-performance cathode material for rechargeable lithium batteries and sodium batteries. <i>Journal of Power Sources</i> , 2016 , 328, 241-249	8.9	31
12	Mesoporous NiCo ₂ O ₄ nanoneedles grown on three dimensional graphene networks as binder-free electrode for high-performance lithium-ion batteries and supercapacitors. <i>Electrochimica Acta</i> , 2015 , 176, 1-9	6.7	100
11	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
10	Synthesis of mesoporous Na _{0.33} V ₂ O ₅ with enhanced electrochemical performance for lithium ion batteries. <i>Electrochimica Acta</i> , 2014 , 130, 119-126	6.7	42
9	LiV ₃ O ₈ /Ag composite nanobelts with enhanced performance as cathode material for rechargeable lithium batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 351-356	5.7	16
8	Hydrothermal synthesis and electrochemical performance of novel channel-structured NaAg _{0.33} V ₂ O ₅ nanorods. <i>Materials Letters</i> , 2014 , 116, 389-392	3.3	13
7	Ultrathin Na _{1.1} V ₃ O _{7.9} nanobelts with superior performance as cathode materials for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8704-9	9.5	40
6	Hydrothermal synthesis of Ag/AgVO ₃ nanobelts with enhanced performance as a cathode material for lithium batteries. <i>CrystEngComm</i> , 2013 , 15, 9869	3.3	31
5	PVP-assisted synthesis of MoS ₂ nanosheets with improved lithium storage properties. <i>CrystEngComm</i> , 2013 , 15, 4998	3.3	70
4	Hydrogen Bond-Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. <i>Advanced Functional Materials</i> , 2112609	15.6	7
3	Perspectives in electrochemically in-situ structural reconstruction of cathode materials for multivalent-ion storage. <i>Energy and Environmental Materials</i> ,	13	5
2	Fundamental Understanding and Effect of Anionic Chemistry in Zinc Batteries. <i>Energy and Environmental Materials</i> ,	13	4
1	Quasi-Solid Electrolyte Design and In Situ Construction of Dual Electrolyte/Electrode Interphases for High-Stability Zinc Metal Battery. <i>Advanced Energy Materials</i> , 2200730	21.8	5