Guozhao Fang

List of Publications by Year
in descending order

92 papers	12,653 citations	41258 49 h-index	43802 91 g-index
93 all docs	93 docs citations	93 times ranked	6577 citing authors

#	Article	IF	Citations
1	Recent Advances in Aqueous Zinc-Ion Batteries. ACS Energy Letters, 2018, 3, 2480-2501.	8.8	1,553
2	Li⁺ intercalated V₂O₅Â·<i>n</i>H₂O with enlarged layer spacing and fast ion diffusion as an aqueous zinc-ion battery cathode. Energy and Environmental Science, 2018, 11, 3157-3162.	15.6	785
3	Suppressing Manganese Dissolution in Potassium Manganate with Rich Oxygen Defects Engaged Highâ€Energyâ€Density and Durable Aqueous Zincâ€Ion Battery. Advanced Functional Materials, 2019, 29, 1808375.	7.8	568
4	Fundamentals and perspectives in developing zinc-ion battery electrolytes: a comprehensive review. Energy and Environmental Science, 2020, 13, 4625-4665.	15.6	497
5	Surfaceâ€Preferred Crystal Plane for a Stable and Reversible Zinc Anode. Advanced Materials, 2021, 33, e2100187.	11.1	432
6	Potassium vanadates with stable structure and fast ion diffusion channel as cathode for rechargeable aqueous zinc-ion batteries. Nano Energy, 2018, 51, 579-587.	8.2	425
7	Metal Organic Framework-Templated Synthesis of Bimetallic Selenides with Rich Phase Boundaries for Sodium-Ion Storage and Oxygen Evolution Reaction. ACS Nano, 2019, 13, 5635-5645.	7.3	400
8	Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodiumâ€Ion Battery Anode. Advanced Energy Materials, 2018, 8, 1703155.	10.2	374
9	Transition metal ion-preintercalated V2O5 as high-performance aqueous zinc-ion battery cathode with broad temperature adaptability. Nano Energy, 2019, 61, 617-625.	8.2	340
10	Investigation of V₂O₅ as a low-cost rechargeable aqueous zinc ion battery cathode. Chemical Communications, 2018, 54, 4457-4460.	2.2	330
11	Fundamentals and perspectives of electrolyte additives for aqueous zinc-ion batteries. Energy Storage Materials, 2021, 34, 545-562.	9.5	330
12	Engineering the interplanar spacing of ammonium vanadates as a high-performance aqueous zinc-ion battery cathode. Journal of Materials Chemistry A, 2019, 7, 940-945.	5.2	291
13	V2O5 Nanospheres with Mixed Vanadium Valences as High Electrochemically Active Aqueous Zinc-Ion Battery Cathode. Nano-Micro Letters, 2019, 11, 25.	14.4	274
14	Pilotaxitic Na1.1V3O7.9 nanoribbons/graphene as high-performance sodium ion battery and aqueous zinc ion battery cathode. Energy Storage Materials, 2018, 13, 168-174.	9.5	271
15	Electrochemically induced cationic defect in MnO intercalation cathode for aqueous zinc-ion battery. Energy Storage Materials, 2020, 24, 394-401.	9.5	270
16	Binder-free stainless steel@Mn₃O₄ nanoflower composite: a high-activity aqueous zinc-ion battery cathode with high-capacity and long-cycle-life. Journal of Materials Chemistry A, 2018, 6, 9677-9683.	5.2	269
17	Zn/MnO2 battery chemistry with dissolution-deposition mechanism. Materials Today Energy, 2020, 16, 100396.	2.5	245
18	Mechanistic Insights of Zn²⁺ Storage in Sodium Vanadates. Advanced Energy Materials, 2018, 8, 1801819.	10.2	225

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19	MOFs nanosheets derived porous metal oxide-coated three-dimensional substrates for lithium-ion battery applications. Nano Energy, 2016, 26, 57-65.	8.2	224
20	Cathode Interfacial Layer Formation <i>via</i> <i>in Situ</i> Electrochemically Charging in Aqueous Zinc-Ion Battery. ACS Nano, 2019, 13, 13456-13464.	7.3	184
21	Caging Na₃V₂(PO₄)₂F₃ Microcubes in Crossâ€Linked Graphene Enabling Ultrafast Sodium Storage and Longâ€Term Cycling. Advanced Science, 2018, 5, 1800680.	5.6	182
22	Two-dimensional hybrid nanosheets of few layered MoSe₂ on reduced graphene oxide as anodes for long-cycle-life lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 15302-15308.	5.2	167
23	Observation of combination displacement/intercalation reaction in aqueous zinc-ion battery. Energy Storage Materials, 2019, 18, 10-14.	9.5	165
24	Nanoflake-constructed porous Na3V2(PO4)3/C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. Nano Energy, 2019, 60, 312-323.	8.2	154
25	Metalâ€“organic framework-templated two-dimensional hybrid bimetallic metal oxides with enhanced lithium/sodium storage capability. Journal of Materials Chemistry A, 2017, 5, 13983-13993.	5.2	150
26	Simultaneous Cationic and Anionic Redox Reactions Mechanism Enabling Highâ€Rate Longâ€Life Aqueous Zincâ€Ion Battery. Advanced Functional Materials, 2019, 29, 1905267.	7.8	140
27	Simultaneous regulation of cations and anions in an electrolyte for high-capacity, high-stability aqueous zincâ€“vanadium batteries. EScience, 2022, 2, 209-218.	25.0	138
28	Antiâ€Corrosive and Znâ€Ionâ€Regulating Composite Interlayer Enabling Longâ€Life Zn Metal Anodes. Advanced Functional Materials, 2021, 31, 2104361.	7.8	135
29	Suppressing by-product via stratified adsorption effect to assist highly reversible zinc anode in aqueous electrolyte. Journal of Energy Chemistry, 2021, 55, 549-556.	7.1	132
30	Organicâ€“Inorganic Hybrid Cathode with Dual Energyâ€Storage Mechanism for Ultrahighâ€Rate and Ultralongâ€Life Aqueous Zincâ€Ion Batteries. Advanced Materials, 2022, 34, e2105452.	11.1	129
31	Quasi-solid-state Zn-air batteries with an atomically dispersed cobalt electrocatalyst and organohydrogel electrolyte. Nature Communications, 2022, 13, .	5.8	127
32	Electrolyte/electrode interfacial electrochemical behaviors and optimization strategies in aqueous zinc-ion batteries. Energy Storage Materials, 2022, 45, 618-646.	9.5	125
33	Ultra-High Mass-Loading Cathode for Aqueous Zinc-Ion Battery Based on Graphene-Wrapped Aluminum Vanadate Nanobelts. Nano-Micro Letters, 2019, 11, 69.	14.4	122
34	Electrochemical Activation of Manganeseâ€Based Cathode in Aqueous Zincâ€Ion Electrolyte. Advanced Functional Materials, 2020, 30, 2002711.	7.8	120
35	Mesoporous NiCo2O4 nanoneedles grown on three dimensional graphene networks as binder-free electrode for high-performance lithium-ion batteries and supercapacitors. Electrochimica Acta, 2015, 176, 1-9.	2.6	110
36	Metal-organic framework-derived porous shuttle-like vanadium oxides for sodium-ion battery application. Nano Research, 2018, 11, 449-463.	5.8	108

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37	Highly Reversible Phase Transition Endows V₆O₁₃ with Enhanced Performance as Aqueous Zincâ€ion Battery Cathode. Energy Technology, 2019, 7, 1900022.	1.8	108
38	Mechanistic Insights of Mg²⁺â€Electrolyte Additive for Highâ€Energy and Longâ€Life Zincâ€Ion Hybrid Capacitors. Advanced Energy Materials, 2021, 11, 2101158.	10.2	108
39	Nb₂O₅ quantum dots embedded in MOF derived nitrogen-doped porous carbon for advanced hybrid supercapacitor applications. Journal of Materials Chemistry A, 2016, 4, 17838-17847.	5.2	107
40	Progress and prospect of low-temperature zinc metal batteries. , 2022, 1, 100011.		107
41	Oxygen-Incorporated MoS₂ Nanosheets with Expanded Interlayers for Hydrogen Evolution Reaction and Pseudocapacitor Applications. ACS Applied Materials & Interfaces, 2016, 8, 33681-33689.	4.0	94
42	Structural perspective on revealing energy storage behaviors of silver vanadate cathodes in aqueous zinc-ion batteries. Acta Materialia, 2019, 180, 51-59.	3.8	86
43	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. Journal of Materials Chemistry A, 2019, 7, 7355-7359.	5.2	84
44	PVP-assisted synthesis of MoS2 nanosheets with improved lithium storage properties. CrystEngComm, 2013, 15, 4998.	1.3	83
45	Hydrogen Bondâ€Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. Advanced Functional Materials, 2022, 32, .	7.8	82
46	Ion migration and defect effect of electrode materials in multivalent-ion batteries. Progress in Materials Science, 2022, 125, 100911.	16.0	79
47	Structural Modification of V₂O₅ as High-Performance Aqueous Zinc-Ion Battery Cathode. Journal of the Electrochemical Society, 2019, 166, A480-A486.	1.3	75
48	Synthesis of polycrystalline K0.25V2O5 nanoparticles as cathode for aqueous zinc-ion battery. Journal of Alloys and Compounds, 2019, 801, 82-89.	2.8	56
49	Facile synthesis of potassium vanadate cathode material with superior cycling stability for lithium ion batteries. Journal of Power Sources, 2015, 275, 694-701.	4.0	55
50	Interfacial chemical binding and improved kinetics assisting stable aqueous Znâ€“MnO2 batteries. Materials Today Energy, 2020, 17, 100475.	2.5	53
51	Interlayer Doping in Layered Vanadium Oxides for Lowâ€cost Energy Storage: Sodiumâ€ion Batteries and Aqueous Zincâ€ion Batteries. ChemNanoMat, 2020, 6, 1553-1566.	1.5	49
52	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. Nano Research, 2020, 13, 3330-3337.	5.8	49
53	Building Ultra-Stable and Low-Polarization Composite Zn Anode Interface via Hydrated Polyzwitterionic Electrolyte Construction. Nano-Micro Letters, 2022, 14, 93.	14.4	46
54	Synthesis of mesoporous Î²-Na0.33V2O5 with enhanced electrochemical performance for lithium ion batteries. Electrochimica Acta, 2014, 130, 119-126.	2.6	45

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55	Ultrathin Na_{1.1}V₃O_{7.9} Nanobelts with Superior Performance as Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 8704-8709.	4.0	43
56	Low Currentâ€Density Stable Zincâ€Metal Batteries Via Aqueous/Organic Hybrid Electrolyte. Batteries and Supercaps, 2022, 5, .	2.4	42
57	Quasiâ€Solid Electrolyte Design and In Situ Construction of Dual Electrolyte/Electrode Interphases for Highâ€Stability Zinc Metal Battery. Advanced Energy Materials, 2022, 12, .	10.2	42
58	Na0.282V2O5: A high-performance cathode material for rechargeable lithium batteries and sodium batteries. Journal of Power Sources, 2016, 328, 241-249.	4.0	37
59	Hydrothermal synthesis of Ag/Î²-AgVO3 nanobelts with enhanced performance as a cathode material for lithium batteries. CrystEngComm, 2013, 15, 9869.	1.3	33
60	General synthesis of three-dimensional alkali metal vanadate aerogels with superior lithium storage properties. Journal of Materials Chemistry A, 2016, 4, 14408-14415.	5.2	33
61	Improving performance of zinc-manganese battery via efficient deposition/dissolution chemistry. Energy Storage Materials, 2022, 46, 165-174.	9.5	32
62	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.	5.2	30
63	Investigation of sodium vanadate as a high-performance aqueous zinc-ion battery cathode. Journal of Energy Chemistry, 2019, 37, 172-175.	7.1	29
64	Three-dimensional Zn3V3O8/carbon fiber cloth composites as binder-free anode for lithium-ion batteries. Electrochimica Acta, 2017, 246, 97-105.	2.6	28
65	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
66	Construction of V2O5/NaV6O15 biphase composites as aqueous zinc-ion battery cathode. Journal of Electroanalytical Chemistry, 2019, 847, 113246.	1.9	27
67	Rational Design and Synthesis of Li₃V₂(PO₄)₃/C Nanocomposites As High-Performance Cathodes for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 7250-7256.	3.2	25
68	In Situ Defect Induction in Closeâ€Packed Lattice Plane for the Efficient Zinc Ion Storage. Small, 2021, 17, e2101944.	5.2	24
69	Copper-Stabilized Pâ€²2-Type Layered Manganese Oxide Cathodes for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 58665-58673.	4.0	24
70	Nb2O5microstructures: a high-performance anode for lithium ion batteries. Nanotechnology, 2016, 27, 46LT01.	1.3	23
71	Perspectives in Electrochemical inâ€‰situ Structural Reconstruction of Cathode Materials for Multivalentâ€Ion Storage. Energy and Environmental Materials, 2023, 6, .	7.3	23
72	Hydrothermal synthesis of sodium vanadate nanobelts as high-performance cathode materials for lithium batteries. Journal of Power Sources, 2016, 325, 383-390.	4.0	22

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73	Perspective on the synergistic effect of chalcogenide multiphases in sodium-ion batteries. Materials Chemistry Frontiers, 2021, 5, 1694-1715.	3.2	22
74	Pseudocapacitance-dominated zinc storage enabled by nitrogen-doped carbon stabilized amorphous vanadyl phosphate. Chemical Engineering Journal, 2021, 426, 131868.	6.6	20
75	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
76	Fundamental Understanding and Effect of Anionic Chemistry in Zinc Batteries. Energy and Environmental Materials, 2022, 5, 186-200.	7.3	18
77	Improving stability and reversibility via fluorine doping in aqueous zincâ€“manganese batteries. Materials Today Energy, 2021, 22, 100851.	2.5	18
78	LiV3O8/Ag composite nanobelts with enhanced performance as cathode material for rechargeable lithium batteries. Journal of Alloys and Compounds, 2014, 583, 351-356.	2.8	17
79	Effect of crystalline structure on the electrochemical properties of K0.25V2O5 nanobelt for fast Li insertion. Electrochimica Acta, 2016, 218, 199-207.	2.6	17
80	Electrochemical performance of AlV3O9 nanoflowers for lithium ion batteries application. Journal of Alloys and Compounds, 2017, 723, 92-99.	2.8	17
81	Interfacial thermodynamics-inspired electrolyte strategy to regulate output voltage and energy density of battery chemistry. Science Bulletin, 2022, 67, 626-635.	4.3	16
82	Synthesis of K0.25V2O5 hierarchical microspheres as a high-rate and long-cycle cathode for lithium metal batteries. Journal of Alloys and Compounds, 2019, 772, 852-860.	2.8	14
83	MOF-derived porous carbon inlaid with MnO₂ nanoparticles as stable aqueous Zn-ion battery cathodes. Dalton Transactions, 2021, 50, 17723-17733.	1.6	14
84	Hydrothermal synthesis and electrochemical performance of novel channel-structured Î²-Ag0.33V2O5 nanorods. Materials Letters, 2014, 116, 389-392.	1.3	13
85	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.	10.2	9
86	Template-free synthesis of highly porous V₂O₅ cuboids with enhanced performance for lithium ion batteries. Nanotechnology, 2016, 27, 305404.	1.3	8
87	Porous structure ZnV2O4/C-N composite activating vanadium-based cathode in aqueous zinc-ion batteries. Materials Today Communications, 2021, 27, 102271.	0.9	8
88	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.	1.9	8
89	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. Materials Today Communications, 2022, 31, 103460.	0.9	5
90	Improved electrochemical performance of ZnMn2O4/CuO composite as cathode materials for aqueous zinc-ion batteries. Ionics, 2021, 27, 4783-4792.	1.2	3

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91	Construction of graphitic carbon quantum dots-modified yolkâ€“shell Co_3O_4 microsphere for high-performance lithium storage. Journal of Materials Science, 2022, 57, 3586-3600.	1.7	2
92	N/Br co-doped C coating Zn_2VO_4 as excellent electrochemical performance cathode material for aqueous zinc ion batteries. Materials Letters, 2022, 315, 131949.	1.3	2