

Kangning Zhao

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.

104
papers

7,614
citations

46
h-index

87
g-index

110
ext. papers

9,391
ext. citations

12.8
avg, IF

6.15
L-index

#	Paper	IF	Citations
104	A facile surface alloy-engineering route to enable robust lithium metal anodes.. <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	1
103	A programmable and skin temperature-activated electromechanical synergistic dressing for effective wound healing.. <i>Science Advances</i> , 2022 , 8, eabl8379	14.3	8
102	Dual-function engineering to construct ultra-stable anodes for potassium-ion hybrid capacitors: N, O-doped porous carbon spheres. <i>Nano Energy</i> , 2022 , 93, 106903	17.1	2
101	An integrated flexible film as cathode for High-Performance Lithium-Sulfur battery. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1627-1635	9.3	3
100	Multifunctional flexible contact lens for eye health monitoring using inorganic magnetic oxide nanosheets.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 202	9.4	1
99	Interface cation migration kinetics induced oxygen release heterogeneity in layered lithium cathodes. <i>Energy Storage Materials</i> , 2021 , 36, 115-122	19.4	9
98	In situ visualizing the interplay between the separator and potassium dendrite growth by synchrotron X-ray tomography. <i>Nano Energy</i> , 2021 , 83, 105841	17.1	6
97	Quicker and More Zn Storage Predominantly from the Interface. <i>Advanced Materials</i> , 2021 , 33, e2100352	24	35
96	Carbon-Decorated NaV(PO) as Ultralong Lifespan Cathodes for High-Energy-Density Symmetric Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25036-25043	9.5	18
95	A self-powered implantable and bioresorbable electrostimulation device for biofeedback bone fracture healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	18
94	Enhanced lithiation dynamics in nanostructured Nb ₁₈ W ₁₆ O ₉₃ anodes. <i>Journal of Power Sources</i> , 2021 , 482, 228898	8.9	6
93	Reconstruction of pH-universal atomic FeNC catalysts towards oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 1033-1040	9.3	13
92	Electrochemically Exfoliating MoS ₂ into Atomically Thin Planar-Stacking Through a Selective Lateral Reaction Pathway. <i>Advanced Functional Materials</i> , 2021 , 31, 2007840	15.6	10
91	Sn stabilized pyrovanadate structure rearrangement for zinc ion battery. <i>Nano Energy</i> , 2021 , 81, 105584	17.1	21
90	Atomically targeting NiFe LDH to create multivacancies for OER catalysis with a small organic anchor. <i>Nano Energy</i> , 2021 , 81, 105606	17.1	69
89	Carbon-coated ultrathin metallic V ₅ Se ₈ nanosheet for high-energy-density and robust potassium storage. <i>Energy Storage Materials</i> , 2021 , 35, 1-11	19.4	19
88	Biomimetic synthesis of Na ₃ V ₂ (PO ₄) ₃ nanoparticles wrapped with 3D porous carbon as high-performance cathode for sodium-ion batteries. <i>Ionics</i> , 2021 , 27, 1165-1175	2.7	8

87	Potassium-Ion Activating Formation of Fe ₃ O ₄ Moiety as Efficient Oxygen Electrocatalyst for Zn-Air Batteries. <i>ChemElectroChem</i> , 2021 , 8, 1298-1306	4.3	4
86	Enhanced performance of atomically dispersed dual-site Fe-Mn electrocatalysts through cascade reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2021 , 288, 120021	21.8	30
85	Direct Visualization of Atomic-Scale Heterogeneous Structure Dynamics in MnO Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33644-33651	9.5	4
84	Tremella-like Hydrated Vanadium Oxide Cathode with an Architectural Design Strategy toward Ultralong Lifespan Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41688-41697	8.5	6
83	Bottom-up synthesis of graphene films hosting atom-thick molecular-sieving apertures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
82	Gradient SEI layer induced by liquid alloy electrolyte additive for high rate lithium metal battery. <i>Nano Energy</i> , 2021 , 88, 106237	17.1	14
81	2D titanoniobate-titaniumcarbide nanohybrid anodes for ultrafast lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 512, 230523	8.9	1
80	Architecting a Hydrated CaVO Cathode with a Facile Desolvation Interface for Superior-Performance Aqueous Zinc Ion Batteries.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60035-60045	9.5	6
79	In situ structural evolution of the multi-site alloy electrocatalyst to manipulate the intermediate for enhanced water oxidation reaction. <i>Energy and Environmental Science</i> , 2020 , 13, 2200-2208	35.4	41
78	Sulfur-Deficient Porous SnS Microflowers as Superior Anode for Alkaline Ion Batteries. <i>Materials</i> , 2020 , 13,	3.5	1
77	Mg ²⁺ Doped LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Hollow Flake-like Structures with Enhanced Performances Cathodes for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2020 , 5, 1275-1281	1.8	6
76	FeP Quantum Dots Confined in Carbon-Nanotube-Grafted P-Doped Carbon Octahedra for High-Rate Sodium Storage and Full-Cell Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909283	15.6	77
75	Surface reconstruction of NiCoP pre-catalysts for bifunctional water splitting in alkaline electrolyte. <i>Electrochimica Acta</i> , 2020 , 345, 136114	6.7	31
74	Flexible bioelectronics for physiological signals sensing and disease treatment. <i>Journal of Materiomics</i> , 2020 , 6, 397-413	6.7	10
73	Interfacial Electronic Modulation of Multishelled CoP Hollow Spheres via Surface Reconstruction for High-Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 309-318	6.1	16
72	Reversible (De)Intercalation of Hydrated Zn ²⁺ in Mg ²⁺ -Stabilized V ₂ O ₅ Nanobelts with High Areal Capacity. <i>Advanced Energy Materials</i> , 2020 , 10, 2002293	21.8	36
71	Layered ferric vanadate nanosheets as a high-rate NH ₄ ⁺ storage electrode. <i>Electrochimica Acta</i> , 2020 , 360, 137008	6.7	17
70	3D branched rutile TiO ₂ @ rutile SnO ₂ nanorods array heteroarchitectures/carbon cloth with an adjustable band gap to enhance lithium storage reaction kinetics for flexible lithium-ion batteries. <i>Electrochimica Acta</i> , 2020 , 354, 136727	6.7	13

69	Crystalline state transformation strategy for improving the catalytic performance of oxygen evolution reaction at high current density. <i>Materials Today Energy</i> , 2020 , 18, 100564	7	4
68	Confinement of Ionic Liquids at Single-Ni-Sites Boost Electroreduction of CO ₂ in Aqueous Electrolytes. <i>ACS Catalysis</i> , 2020 , 10, 13171-13178	13.1	27
67	Compact Sn/SnO ₂ microspheres with gradient composition for high volumetric lithium storage. <i>Energy Storage Materials</i> , 2020 , 25, 376-381	19.4	14
66	High-Voltage Cycling Induced Thermal Vulnerability in LiCoO Cathode: Cation Loss and Oxygen Release Driven by Oxygen Vacancy Migration. <i>ACS Nano</i> , 2020 , 14, 6181-6190	16.7	55
65	Boosting Polysulfide Redox Kinetics by Graphene-Supported Ni Nanoparticles with Carbon Coating. <i>Advanced Energy Materials</i> , 2020 , 10, 2000907	21.8	46
64	Interconnected Vertically Stacked 2D-MoS for Ultrastable Cycling of Rechargeable Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20762-20769	9.5	24
63	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , 2019 , 62, 275-281	17.1	234
62	Built-in oriented electric field facilitating durable Zn MnO ₂ battery. <i>Nano Energy</i> , 2019 , 62, 79-84	17.1	96
61	Illuminating phase transformation dynamics of vanadium oxide cathode by multimodal techniques under operando conditions. <i>Nano Research</i> , 2019 , 12, 905-910	10	4
60	Sisyphus effects in hydrogen electrochemistry on metal silicides enabled by silicene subunit edge. <i>Science Bulletin</i> , 2019 , 64, 617-624	10.6	24
59	Copper-Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazine-Assisted Electrolytic Hydrogen Production. <i>Advanced Energy Materials</i> , 2019 , 9, 1900390	21.8	128
58	Atomically dispersed metal catalysts for the oxygen reduction reaction: synthesis, characterization, reaction mechanisms and electrochemical energy applications. <i>Energy and Environmental Science</i> , 2019 , 12, 2890-2923	35.4	208
57	Defect engineering activating (Boosting) zinc storage capacity of MoS ₂ . <i>Energy Storage Materials</i> , 2019 , 16, 527-534	19.4	130
56	Low-Crystalline Bimetallic Metal-Organic Framework Electrocatalysts with Rich Active Sites for Oxygen Evolution. <i>ACS Energy Letters</i> , 2019 , 4, 285-292	20.1	150
55	Superior Stability and Dynamic Performance of Single Crystal LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Nanorods from MnO ₂ Template for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A59-A67	3.9	16
54	Hierarchical Bimetallic Selenide Nanosheet-Constructed Nanotubes for Efficient Electrocatalytic Water Oxidation. <i>ChemElectroChem</i> , 2019 , 6, 331-335	4.3	11
53	H ₂ V ₃ O ₈ Nanowire/Graphene Electrodes for Aqueous Rechargeable Zinc Ion Batteries with High Rate Capability and Large Capacity. <i>Advanced Energy Materials</i> , 2018 , 8, 1800144	21.8	302
52	Sodium Ion Capacitor Using Pseudocapacitive Layered Ferric Vanadate Nanosheets Cathode. <i>IScience</i> , 2018 , 6, 212-221	6.1	53

51	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800848	4.6	276
50	MoB/g-C ₃ N ₄ Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie</i> , 2018 , 130, 505-509	3.6	48
49	MoB/g-C N Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 496-500	16.4	228
48	Water-Lubricated Intercalation in V O \square H O for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703725	24	725
47	Surface Gradient Ti-Doped MnO Nanowires for High-Rate and Long-Life Lithium Battery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44376-44384	9.5	29
46	Nonhierarchical Heterostructured Fe O /Mn O Porous Hollow Spheres for Enhanced Lithium Storage. <i>Small</i> , 2018 , 14, e1800659	11	67
45	Electrochemical activated MoO ₂ /Mo ₂ N heterostructured nanobelts as superior zinc rechargeable battery cathode. <i>Energy Storage Materials</i> , 2018 , 15, 374-379	19.4	60
44	Electrochemical in situ X-ray probing in lithium-ion and sodium-ion batteries. <i>Journal of Materials Science</i> , 2017 , 52, 3697-3718	4.3	30
43	Copper silicate nanotubes anchored on reduced graphene oxide for long-life lithium-ion battery. <i>Energy Storage Materials</i> , 2017 , 7, 152-156	19.4	51
42	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. <i>Nature Communications</i> , 2017 , 8, 14264	17.4	452
41	Thermal Induced Strain Relaxation of 1D Iron Oxide for Solid Electrolyte Interphase Control and Lithium Storage Improvement. <i>Advanced Energy Materials</i> , 2017 , 7, 1601582	21.8	70
40	Phosphorus Enhanced Intermolecular Interactions of SnO and Graphene as an Ultrastable Lithium Battery Anode. <i>Small</i> , 2017 , 13, 1603973	11	76
39	Interconnected LiCuVO networks with in situ Cu generation as high-performance lithium-ion battery anode. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13341-13347	3.6	12
38	Field Effect Enhanced Hydrogen Evolution Reaction of MoS Nanosheets. <i>Advanced Materials</i> , 2017 , 29, 1604464	24	111
37	Air-Stable Porous FeN Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. <i>Nano Letters</i> , 2017 , 17, 5740-5746	11.5	110
36	Oxalate-assisted formation of uniform carbon-confined SnO nanotubes with enhanced lithium storage. <i>Chemical Communications</i> , 2017 , 53, 9542-9545	5.8	18
35	Nanoribbons and nanoscrolls intertwined three-dimensional vanadium oxide hydrogels for high-rate lithium storage at high mass loading level. <i>Nano Energy</i> , 2017 , 40, 73-81	17.1	37
34	A Crystalline/Amorphous Cobalt(II,III) Oxide Hybrid Electrocatalyst for Lithium-Air Batteries. <i>Energy Technology</i> , 2017 , 5, 568-579	3.5	11

33	SnS ₂ @Graphene nanosheet arrays grown on carbon cloth as freestanding binder-free flexible anodes for advanced sodium batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 654, 357-362	5.7	69
32	Cathodic polarization suppressed sodium-ion full cell with a 3.3 V high-voltage. <i>Nano Energy</i> , 2016 , 28, 216-223	17.1	76
31	SnO ₂ Quantum Dots@Graphene Oxide as a High-Rate and Long-Life Anode Material for Lithium-Ion Batteries. <i>Small</i> , 2016 , 12, 588-94	11	307
30	Zinc Pyrovanadate Nanoplates Embedded in Graphene Networks with Enhanced Electrochemical Performance. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2992-2999	3.9	38
29	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. <i>Nano Letters</i> , 2016 , 16, 1523-9	11.5	59
28	Direct growth of an economic green energy storage material: a monocrystalline jarosite-KFe ₃ (SO ₄) ₂ (OH) ₆ -nanoplates@rGO hybrid as a superior lithium-ion battery cathode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3735-3742	13	25
27	Acetylene Black Induced Heterogeneous Growth of Macroporous CoV ₂ O ₆ Nanosheet for High-Rate Pseudocapacitive Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7139-46	9.5	74
26	Facile synthesis of a Co ₃ V ₂ O ₈ interconnected hollow microsphere anode with superior high-rate capability for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5075-5080	13	57
25	Carbon-supported and nanosheet-assembled vanadium oxide microspheres for stable lithium-ion battery anodes. <i>Nano Research</i> , 2016 , 9, 128-138	10	57
24	In operando observation of temperature-dependent phase evolution in lithium-incorporation olivine cathode. <i>Nano Energy</i> , 2016 , 22, 406-413	17.1	24
23	Hollow spherical LiNi _{0.5} Mn _{1.5} O ₄ built from polyhedra with high-rate performance via carbon nanotube modification. <i>Science China Materials</i> , 2016 , 59, 95-103	7.1	27
22	Self-sacrificed synthesis of three-dimensional Na ₃ V ₂ (PO ₄) ₃ nanofiber network for high-rate sodium-ion full batteries. <i>Nano Energy</i> , 2016 , 25, 145-153	17.1	186
21	Pyrolyzed carbon with embedded NiO/Ni nanospheres for applications in microelectrodes. <i>RSC Advances</i> , 2016 , 6, 43436-43441	3.7	34
20	Cycling-Stable Cathodes: The Capturing of Ionized Oxygen in Sodium Vanadium Oxide Nanorods Cathodes under Operando Conditions (Adv. Funct. Mater. 36/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6498-6498	15.6	
19	The Capturing of Ionized Oxygen in Sodium Vanadium Oxide Nanorods Cathodes under Operando Conditions. <i>Advanced Functional Materials</i> , 2016 , 26, 6555-6562	15.6	15
18	Hierarchical zigzag Na _{1.25} V ₃ O ₈ nanowires with topotactically encoded superior performance for sodium-ion battery cathodes. <i>Energy and Environmental Science</i> , 2015 , 8, 1267-1275	35.4	141
17	Interwoven three-dimensional architecture of cobalt oxide nanobrush-graphene@Ni(x)Co(2x)(OH)(6x) for high-performance supercapacitors. <i>Nano Letters</i> , 2015 , 15, 2037-44	11.5	129
16	Inhibiting effect of Na ⁺ pre-intercalation in MoO ₃ nanobelts with enhanced electrochemical performance. <i>Nano Energy</i> , 2015 , 15, 145-152	17.1	53

15	Integrated SnO ₂ nanorod array with polypyrrole coverage for high-rate and long-life lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7619-23	3.6	70
14	Hierarchical Graphene-Encapsulated Hollow SnO ₂ @SnS ₂ Nanostructures with Enhanced Lithium Storage Capability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22533-41	9.5	68
13	An electrospun hierarchical LiV ₃ O ₈ nanowire-in-network for high-rate and long-life lithium batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19850-19856	13	53
12	Manganese oxide/carbon yolk-shell nanorod anodes for high capacity lithium batteries. <i>Nano Letters</i> , 2015 , 15, 738-44	11.5	318
11	Energy Storage: Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage (Adv. Funct. Mater. 12/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1766-1766	15.6	
10	Graphene Oxide Wrapped Amorphous Copper Vanadium Oxide with Enhanced Capacitive Behavior for High-Rate and Long-Life Lithium-Ion Battery Anodes. <i>Advanced Science</i> , 2015 , 2, 1500154	13.6	100
9	Novel K ₃ V ₂ (PO ₄) ₃ /C Bundled Nanowires as Superior Sodium-Ion Battery Electrode with Ultrahigh Cycling Stability. <i>Advanced Energy Materials</i> , 2015 , 5, 1500716	21.8	140
8	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. <i>Nature Communications</i> , 2015 , 6, 7402	17.4	320
7	Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage. <i>Advanced Functional Materials</i> , 2015 , 25, 1773-1779	15.6	49
6	Amorphous vanadium oxide matrixes supporting hierarchical porous Fe ₃ O ₄ /graphene nanowires as a high-rate lithium storage anode. <i>Nano Letters</i> , 2014 , 14, 6250-6	11.5	224
5	Mesoporous VO ₂ nanowires with excellent cycling stability and enhanced rate capability for lithium batteries. <i>RSC Advances</i> , 2014 , 4, 33332-33337	3.7	45
4	VO ₂ nanowires assembled into hollow microspheres for high-rate and long-life lithium batteries. <i>Nano Letters</i> , 2014 , 14, 2873-8	11.5	210
3	Heterogeneous branched core-shell SnO ₂ @PANI nanorod arrays with mechanical integrity and three dimensional electron transport for lithium batteries. <i>Nano Energy</i> , 2014 , 8, 196-204	17.1	127
2	Nickel Niobate Anodes for High Rate Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2102972	21.8	5
1	Sodium Superionic Conductors (NASICONs) as Cathode Materials for Sodium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 1	29.3	11