

Feipeng Zhao

List of Publications by Year in descending order

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papers

7,837
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50276

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times ranked

9778
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Characterization Techniques for Electrode Interfaces in Sulfide-Based All-Solid-State Lithium Batteries. <i>Small Structures</i> , 2022, 3, 2100146.	12.0	21
2	Antiperovskite Electrolytes for Solid-State Batteries. <i>Chemical Reviews</i> , 2022, 122, 3763-3819.	47.7	96
3	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , 2021, 50, 3889-3956.	38.1	109
4	Insight into MoS ₂ –MoN Heterostructure to Accelerate Polysulfide Conversion toward High-Energy-Density Lithium–Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003314.	19.5	159
5	Tailoring bulk Li ⁺ ion diffusion kinetics and surface lattice oxygen activity for high-performance lithium-rich manganese-based layered oxides. <i>Energy Storage Materials</i> , 2021, 37, 509-520.	18.0	55
6	Recent development of lithium argyrodite solid-state electrolytes for solid-state batteries: Synthesis, structure, stability and dynamics. <i>Nano Energy</i> , 2021, 83, 105858.	16.0	140
7	New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2101259.	21.0	41
8	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021, 11, 2100836.	19.5	64
9	Superionic Fluorinated Halide Solid Electrolytes for Highly Stable Li-Metal in All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101915.	19.5	61
10	A universal wet-chemistry synthesis of solid-state halide electrolytes for all-solid-state lithium-metal batteries. <i>Science Advances</i> , 2021, 7, eabh1896.	10.3	93
11	A liquid-free poly(butylene oxide) electrolyte for near-room-temperature and 4-V class all-solid-state lithium batteries. <i>Nano Energy</i> , 2021, 90, 106566.	16.0	7
12	An Air-Stable and Li-Metal-Compatible Glass-Ceramic Electrolyte enabling High-Performance All-Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2021, 33, e2006577.	21.0	82
13	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2769-2776.	10.3	72
14	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. <i>Nano Energy</i> , 2020, 69, 104396.	16.0	76
15	Tuning ionic conductivity and electrode compatibility of Li ₃ YBr ₆ for high-performance all solid-state Li batteries. <i>Nano Energy</i> , 2020, 77, 105097.	16.0	41
16	Tuning bifunctional interface for advanced sulfide-based all-solid-state batteries. <i>Energy Storage Materials</i> , 2020, 33, 139-146.	18.0	44
17	Phase Evolution of a Prenucleator for Fast Li Nucleation in All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001191.	19.5	17
18	Origin of Superionic Li ₃ Y–In _x Cl ₆ Halide Solid Electrolytes with High Humidity Tolerance. <i>Nano Letters</i> , 2020, 20, 4384-4392.	9.1	94

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19	Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. <i>Energy Storage Materials</i> , 2020, 30, 238-249.	18.0	46
20	Interface-assisted in-situ growth of halide electrolytes eliminating interfacial challenges of all-inorganic solid-state batteries. <i>Nano Energy</i> , 2020, 76, 105015.	16.0	80
21	Halide-based solid-state electrolyte as an interfacial modifier for high performance solid-state Li ⁺ O ₂ batteries. <i>Nano Energy</i> , 2020, 75, 105036.	16.0	45
22	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1035-1043.	17.4	176
23	A Versatile Sn ²⁺ -Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903422.	19.5	183
24	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. <i>Chemistry of Materials</i> , 2020, 32, 1272-1280.	6.7	17
25	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2001118.	14.9	53
26	Progress and perspectives on halide lithium conductors for all-solid-state lithium batteries. <i>Energy and Environmental Science</i> , 2020, 13, 1429-1461.	30.8	366
27	Trimetallic Pt ²⁺ -Pd ²⁺ -Ni octahedral nanocages with subnanometer thick-wall towards high oxygen reduction reaction. <i>Nano Energy</i> , 2019, 64, 103890.	16.0	34
28	Development of a Colloidal Gold Immunochromatographic Strip Assay for Rapid Detection of Bovine Rotavirus. <i>Viral Immunology</i> , 2019, 32, 393-401.	1.3	11
29	Air-stable Li ₃ InCl ₆ electrolyte with high voltage compatibility for all-solid-state batteries. <i>Energy and Environmental Science</i> , 2019, 12, 2665-2671.	30.8	345
30	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. <i>Matter</i> , 2019, 1, 1215-1231.	10.0	120
31	<i>In situ</i> formation of highly controllable and stable Na ₃ PS ₄ as a protective layer for Na metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4119-4125.	10.3	51
32	Solid-State Plastic Crystal Electrolytes: Effective Protection Interlayers for Sulfide-Based All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1900392.	14.9	154
33	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900261.	8.6	90
34	Efficient Trapping and Catalytic Conversion of Polysulfides by VS ₄ Nanosites for Li ⁺ S Batteries. <i>ACS Energy Letters</i> , 2019, 4, 755-762.	17.4	185
35	Designing a highly efficient polysulfide conversion catalyst with paramontroseite for high-performance and long-life lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 57, 230-240.	16.0	190
36	Graphene Oxide-Template Controlled Cuboid-Shaped High-Capacity VS ₄ Nanoparticles as Anode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801806.	14.9	125

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37	Chemical Immobilization and Conversion of Active Polysulfides Directly by Copper Current Collector: A New Approach to Enabling Stable Room-Temperature Li-S and Na-S Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800624.	19.5	64
38	Dendrite-free and minimum volume change Li metal anode achieved by three-dimensional artificial interlayers. <i>Energy Storage Materials</i> , 2018, 15, 415-421.	18.0	40
39	High-Performance Oxygen Reduction Electrocatalyst Derived from Polydopamine and Cobalt Supported on Carbon Nanotubes for Metal-Air Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1606034.	14.9	121
40	Improved Sodium-Ion Storage Performance of Ultrasmall Iron Selenide Nanoparticles. <i>Nano Letters</i> , 2017, 17, 4137-4142.	9.1	128
41	All flexible electrospun papers based self-charging power system. <i>Nano Energy</i> , 2017, 38, 210-217.	16.0	97
42	A hierarchical Ti-MoC hybrid nanostructure for lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8125-8132.	10.3	34
43	Supported Cobalt Polyphthalocyanine for High-Performance Electrocatalytic CO ₂ Reduction. <i>Chem</i> , 2017, 3, 652-664.	11.7	406
44	Influence of crystal phase on TiO ₂ nanowire anodes in sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20005-20013.	10.3	32
45	Hierarchical VS ₂ Nanosheet Assemblies: A Universal Host Material for the Reversible Storage of Alkali Metal Ions. <i>Advanced Materials</i> , 2017, 29, 1702061.	21.0	320
46	Promoting Effect of Ni(OH) ₂ on Palladium Nanocrystals Leads to Greatly Improved Operation Durability for Electrocatalytic Ethanol Oxidation in Alkaline Solution. <i>Advanced Materials</i> , 2017, 29, 1703057.	21.0	251
47	Amorphous MoS ₃ as the sulfur-equivalent cathode material for room-temperature Li-S and Na-S batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13091-13096.	7.1	170
48	Engineering SnS ₂ nanosheet assemblies for enhanced electrochemical lithium and sodium ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25618-25624.	10.3	79
49	Amorphous MoS ₃ Infiltrated with Carbon Nanotubes as an Advanced Anode Material of Sodium-Ion Batteries with Large Gravimetric, Areal, and Volumetric Capacities. <i>Advanced Energy Materials</i> , 2017, 7, 1601602.	19.5	164
50	MicroRNA-92b inhibits epithelial-mesenchymal transition-induced migration and invasion by targeting Smad3 in nasopharyngeal cancer. <i>Oncotarget</i> , 2017, 8, 91603-91613.	1.8	22
51	Zinc-Air Batteries: Metallic Cobalt Nanoparticles Encapsulated in Nitrogen-Enriched Graphene Shells: Its Bifunctional Electrocatalysis and Application in Zinc-Air Batteries (<i>Adv. Funct. Mater.</i> 24/2016). <i>Advanced Functional Materials</i> , 2016, 26, 4234-4234.	14.9	4
52	Stabilizing nickel sulfide nanoparticles with an ultrathin carbon layer for improved cycling performance in sodium ion batteries. <i>Nano Research</i> , 2016, 9, 3162-3170.	10.4	65
53	Mo ₂ C Nanoparticles Dispersed on Hierarchical Carbon Microflowers for Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2016, 10, 11337-11343.	14.6	483
54	Metallic Cobalt Nanoparticles Encapsulated in Nitrogen-Enriched Graphene Shells: Its Bifunctional Electrocatalysis and Application in Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 4397-4404.	14.9	350

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55	CuWO ₄ Nanoflake Array-Based Single-Junction and Heterojunction Photoanodes for Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 9211-9217.	8.0	81
56	Iron polyphthalocyanine sheathed multiwalled carbon nanotubes: A high-performance electrocatalyst for oxygen reduction reaction. Nano Research, 2016, 9, 1497-1506.	10.4	112
57	TiS ₂ nanoplates: A high-rate and stable electrode material for sodium ion batteries. Nano Energy, 2016, 20, 168-175.	16.0	137
58	Iron-based sodium-ion full batteries. Journal of Materials Chemistry A, 2016, 4, 1754-1761.	10.3	50
59	Ultrathin nickel-iron layered double hydroxide nanosheets intercalated with molybdate anions for electrocatalytic water oxidation. Journal of Materials Chemistry A, 2015, 3, 16348-16353.	10.3	209
60	Polyanthraquinone-based nanostructured electrode material capable of high-performance pseudocapacitive energy storage in aprotic electrolyte. Nano Energy, 2015, 15, 654-661.	16.0	63
61	Nanostructured CuP ₂ /C composites as high-performance anode materials for sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 21754-21759.	10.3	113
62	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene. Nature Communications, 2015, 6, 10035.	12.8	466
63	Cobalt Hexacyanoferrate Nanoparticles as a High-Rate and Ultra-Stable Supercapacitor Electrode Material. ACS Applied Materials & Interfaces, 2014, 6, 11007-11012.	8.0	171
64	Synthesis of a fully capped mesoporous silica and its hybrids with extremely low dielectric constant and loss. Microporous and Mesoporous Materials, 2013, 176, 199-208.	4.4	11
65	Thermally Conductive Aluminum Nitride-Multiwalled Carbon Nanotube/Cyanate Ester Composites with High Flame Retardancy and Low Dielectric Loss. Industrial & Engineering Chemistry Research, 2013, 52, 3342-3353.	3.7	51