Ziyang Guo

List of Publications by Year in Descending Order

55 papers	2,687 citations	26 h-index	51 g-index
60 ext. papers	3,220 ext. citations	11.3 avg, IF	5.31 L-index

#	Paper	IF	Citations
55	MnO2 nanosheet modified N, P co-doping carbon nanofibers on carbon cloth as lithiophilic host to construct high-performance anodes for Li metal batteries. *Journal of Energy Chemistry*, **2022**, 69, 270-270	12	1
54	Designing porous and stable Au-coated Ni nanosheets on Ni foam for quasi-symmetrical polymer Li–air batteries. *Materials Chemistry Frontiers*, **2022**, 6, 352-359	7.8	
53	Cationic-Polymer-Functionalized Separator As a High-Efficiency Polysulfide Shuttle Barrier for Long-Life Li–S Battery. *ACS Applied Energy Materials*, **2021**, 4, 2914-2921	6.1	6
52	A Bismuth-Based Protective Layer for Magnesium Metal Anode in Noncorrosive Electrolytes. *ACS Energy Letters*, **2021**, 6, 2594-2601	20.1	26
51	Correction: A lithium air battery with a lithiated Al-carbon anode. *Chemical Communications*, **2021**, 57, 3724	5.8	2
50	Iridium coated Co nanoparticles embedded into highly porous N-doped carbon nanocubes grafted with carbon nanotubes as a catalytic cathode for high-performance Li–O2 batteries. *Journal of Materials Chemistry A*, **2021**, 9, 17865-17875	13	8
49	A low-cost and eco-friendly network binder coupling stiffness and softness for high-performance Li-ion batteries. *Electrochimica Acta*, **2021**, 387, 138491	6.7	3
48	Protecting Li-metal anode with ethylenediamine-based layer and in-situ formed gel polymer electrolyte to construct the high-performance Li–CO2 battery. *Journal of Power Sources*, **2021**, 506, 230226	8.9	2
47	Designing a new-type PMMA based gel polymer electrolyte incorporating ionic liquid for lithium oxygen batteries with Ru-based Binder-free cathode. *Applied Surface Science*, **2021**, 565, 150612	6.7	3
46	Constructing in-situ polymerized electrolyte on lithiophilic anode for high-performance lithium–air batteries operating in ambient conditions. *Energy Storage Materials*, **2021**, 43, 221-228	19.4	12
45	Polydopamine-coated bimetallic ZIF derivatives as an air cathode for acidic Zn-air batteries with super-high potential. *Chemical Communications*, **2021**, 57, 11248-11251	5.8	1
44	A dendrite-free and stable anode for high-performance Li-O batteries by prestoring Li in reduced graphene oxide coated three-dimensional nickel foam. *Chemical Communications*, **2020**, 56, 7645-7648	5.8	2
43	Core-shell-structured Co@Co4N nanoparticles encapsulated into MnO-modified porous N-doping carbon nanocubes as bifunctional catalysts for rechargeable Zn–air batteries. *Journal of Energy Chemistry*, **2020**, 50, 52-62	12	24
42	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. *Chemistry of Materials*, **2020**, 32, 3405-3413	9.6	69
41	Multifunctional Cellulose Nanocrystals as a High-Efficient Polysulfide Stopper for Practical Li-S Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 17592-17601	9.5	15
40	Pencil-drawing on nitrogen and sulfur co-doped carbon paper: An effective and stable host to pre-store Li for high-performance lithium–air batteries. *Energy Storage Materials*, **2020**, 26, 593-603	19.4	20
39	High Polymerization Conversion and Stable High-Voltage Chemistry Underpinning an In Situ Formed Solid Electrolyte. *Chemistry of Materials*, **2020**, 32, 9167-9175	9.6	31

38	A universal cross-linking binding polymer composite for ultrahigh-loading Li-ion battery electrodes. *Journal of Materials Chemistry A*, **2020**, 8, 9693-9700	13	15
37	Drawing a Pencil-Trace Cathode for a High-Performance Polymer-Based Li□O2 Battery with Redox Mediator. *Advanced Functional Materials*, **2019**, 29, 1806863	15.6	32
36	Fe/N-doped carbon nanofibers with Fe3O4/Fe2C nanocrystals enchased as electrocatalysts for efficient oxygen reduction reaction. *Inorganic Chemistry Frontiers*, **2019**, 6, 2296-2303	6.8	13
35	Ru-Coated metal-organic framework-derived Co-based particles embedded in porous N-doped carbon nanocubes as a catalytic cathode for a Li-O battery. *Chemical Communications*, **2019**, 55, 10092-10095	5.8	13
34	Catalytic Cathodes: A Highly Reversible Long-Life Li□O2 Battery with a RuP2-Based Catalytic Cathode (Small 29/2019). *Small*, **2019**, 15, 1970155	11	1
33	In situ encapsulation of Co-based nanoparticles into nitrogen-doped carbon nanotubes-modified reduced graphene oxide as an air cathode for high-performance Zn-air batteries. *Nanoscale*, **2019**, 11, 21943-21952	7.7	27
32	A Highly Reversible Long-Life Li-CO Battery with a RuP -Based Catalytic Cathode. *Small*, **2019**, 15, e1803246	11	53
31	A flexible polymer-based Li□air battery using a reduced graphene oxide/Li composite anode. *Journal of Materials Chemistry A*, **2018**, 6, 6022-6032	13	42
30	Lithiophilic Co/Co4N nanoparticles embedded in hollow N-doped carbon nanocubes stabilizing lithium metal anodes for Li□air batteries. *Journal of Materials Chemistry A*, **2018**, 6, 22096-22105	13	36
29	In situ encapsulation of core□shell-structured Co@Co3O4 into nitrogen-doped carbon polyhedra as a bifunctional catalyst for rechargeable Zn□air batteries. *Journal of Materials Chemistry A*, **2018**, 6, 1443-1453	13	129
28	Enhanced hydrogen evolution of MoS2/RGO: vanadium, nitrogen dopants triggered new active sites and expanded interlayer. *Inorganic Chemistry Frontiers*, **2018**, 5, 2092-2099	6.8	26
27	Downsizing metal□organic frameworks with distinct morphologies as cathode materials for high-capacity Li□O2 batteries. *Materials Chemistry Frontiers*, **2017**, 1, 1324-1330	7.8	60
26	A Multifunction Lithium□Carbon Battery System Using a Dual Electrolyte. *ACS Energy Letters*, **2017**, 2, 36-44	20.1	23
25	A Long-Life Lithium□Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. *Angewandte Chemie*, **2017**, 129, 7613-7617	3.6	42
24	A Long-Life Lithium-Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. *Angewandte Chemie - International Edition*, **2017**, 56, 7505-7509	16.4	100
23	A Rechargeable Li-CO Battery with a Gel Polymer Electrolyte. *Angewandte Chemie - International Edition*, **2017**, 56, 9126-9130	16.4	115
22	A Rechargeable Li-CO2 Battery with a Gel Polymer Electrolyte. *Angewandte Chemie*, **2017**, 129, 9254-9258	3.6	15
21	Improvement on the high-rate performance of Mn-doped Na3V2(PO4)3/C as a cathode material for sodium ion batteries. *RSC Advances*, **2016**, 6, 71581-71588	3.7	55

20	Egg-Derived Mesoporous Carbon Microspheres as Bifunctional Oxygen Evolution and Oxygen Reduction Electrocatalysts. *Advanced Energy Materials*, **2016**, 6, 1600794	21.8	133
19	Three-Dimensional Ordered Macroporous FePO as High-Efficiency Catalyst for Rechargeable Li-O Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 31638-31645	9.5	20
18	High-Performance Lithium□Air Battery with a Coaxial-Fiber Architecture. *Angewandte Chemie*, **2016**, 128, 4563-4567	3.6	22
17	Double-Nanocarbon Synergistically Modified Na3V2(PO4)3: An Advanced Cathode for High-Rate and Long-Life Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 15341-51	9.5	102
16	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. *Angewandte Chemie - International Edition*, **2016**, 55, 4487-91	16.4	153
15	Ruthenium oxide coated ordered mesoporous carbon nanofiber arrays: a highly bifunctional oxygen electrocatalyst for rechargeable Zn□air batteries. *Journal of Materials Chemistry A*, **2016**, 4, 6282-6289	13	52
14	A core□shell-structured TiO2(B) nanofiber@porous RuO2 composite as a carbon-free catalytic cathode for Li□O2 batteries. *Journal of Materials Chemistry A*, **2015**, 3, 21123-21132	13	27
13	A lithium air battery with a lithiated Al-carbon anode. *Chemical Communications*, **2015**, 51, 676-8	5.8	65
12	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc□Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. *Angewandte Chemie*, **2015**, 127, 15610-15614	3.6	55
11	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc-Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. *Angewandte Chemie - International Edition*, **2015**, 54, 15390-4	16.4	241
10	Application of sulfur-doped carbon coating on the surface of Li3V2(PO4)3 composites to facilitate Li-ion storage as cathode materials. *Journal of Materials Chemistry A*, **2015**, 3, 6064-6072	13	45
9	B-doped Carbon Coating Improves the Electrochemical Performance of Electrode Materials for Li-ion Batteries. *Advanced Functional Materials*, **2014**, 24, 5511-5521	15.6	139
8	Flexible and Wire-Shaped Micro-Supercapacitor Based on Ni(OH)2-Nanowire and Ordered Mesoporous Carbon Electrodes. *Advanced Functional Materials*, **2014**, 24, 3405-3412	15.6	277
7	Ordered hierarchical mesoporous/macroporous carbon: a high-performance catalyst for rechargeable Li-O(2) batteries. *Advanced Materials*, **2013**, 25, 5668-72	24	270
6	Leaf-like Graphene Oxide with a Carbon Nanotube Midrib and Its Application in Energy Storage Devices. *Advanced Functional Materials*, **2013**, 23, n/a-n/a	15.6	2
5	TiO2(B) nanofiber bundles as a high performance anode for a Li-ion battery. *RSC Advances*, **2013**, 3, 3352	3.7	36
4	A Thin-Film Direct Hydrogen Peroxide/Borohydride Micro Fuel Cell. *Advanced Energy Materials*, **2013**, 3, 713-717	21.8	16
3	The highly dispersed Co-based nanoparticles encapsulated into porous N-doping carbon polyhedral with the low content of Ru modification as a promising cathode catalyst for long-life Li-O2 batteries. *Nano Research*,1	10	1

List of Publications

2	I-containing Polymer/Alloy Layer-Based Li Anode Mediating High-Performance Lithium–Air Batteries. *Advanced Functional Materials*,2108993	15.6	2
1	Ruthenium-Modified Bimetallic Zeolitic-Imidazolate Framework Derivative as a High-Efficient Catalyst for Rechargeable Zinc-Air Batteries. *Batteries and Supercaps*,	5.6	1