

Ziyang Guo

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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	Flexible and Wire-Shaped Micro-Supercapacitor Based on Ni(OH) ₂ -Nanowire and Ordered Mesoporous Carbon Electrodes. <i>Advanced Functional Materials</i> , 2014 , 24, 3405-3412	15.6	277
54	Ordered hierarchical mesoporous/macroporous carbon: a high-performance catalyst for rechargeable Li-O ₂ batteries. <i>Advanced Materials</i> , 2013 , 25, 5668-72	24	270
53	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc-Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15390-4	16.4	241
52	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4487-91	16.4	153
51	B-doped Carbon Coating Improves the Electrochemical Performance of Electrode Materials for Li-ion Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 5511-5521	15.6	139
50	Egg-Derived Mesoporous Carbon Microspheres as Bifunctional Oxygen Evolution and Oxygen Reduction Electrocatalysts. <i>Advanced Energy Materials</i> , 2016 , 6, 1600794	21.8	133
49	In situ encapsulation of core-shell-structured Co@Co ₃ O ₄ into nitrogen-doped carbon polyhedra as a bifunctional catalyst for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1443-1453	13.3	129
48	A Rechargeable Li-CO Battery with a Gel Polymer Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9126-9130	16.4	115
47	Double-Nanocarbon Synergistically Modified Na ₃ V ₂ (PO ₄) ₃ : An Advanced Cathode for High-Rate and Long-Life Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15341-51	9.5	102
46	A Long-Life Lithium-Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7505-7509	16.4	100
45	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 3405-3413	9.6	69
44	A lithium air battery with a lithiated Al-carbon anode. <i>Chemical Communications</i> , 2015 , 51, 676-8	5.8	65
43	Downsizing metal-organic frameworks with distinct morphologies as cathode materials for high-capacity Li-O ₂ batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1324-1330	7.8	60
42	Improvement on the high-rate performance of Mn-doped Na ₃ V ₂ (PO ₄) ₃ /C as a cathode material for sodium ion batteries. <i>RSC Advances</i> , 2016 , 6, 71581-71588	3.7	55
41	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc-Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. <i>Angewandte Chemie</i> , 2015 , 127, 15610-15614	3.6	55
40	A Highly Reversible Long-Life Li-CO Battery with a RuP -Based Catalytic Cathode. <i>Small</i> , 2019 , 15, e1803246	14.6	53
39	Ruthenium oxide coated ordered mesoporous carbon nanofiber arrays: a highly bifunctional oxygen electrocatalyst for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6282-6289	13.3	52

38	Application of sulfur-doped carbon coating on the surface of Li ₃ V ₂ (PO ₄) ₃ composites to facilitate Li-ion storage as cathode materials. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6064-6072	13	45
37	A Long-Life Lithium-Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. <i>Angewandte Chemie</i> , 2017 , 129, 7613-7617	3.6	42
36	A flexible polymer-based Li-air battery using a reduced graphene oxide/Li composite anode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6022-6032	13	42
35	Lithiophilic Co/Co ₄ N nanoparticles embedded in hollow N-doped carbon nanocubes stabilizing lithium metal anodes for Li-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22096-22105	13	36
34	TiO ₂ (B) nanofiber bundles as a high performance anode for a Li-ion battery. <i>RSC Advances</i> , 2013 , 3, 33523-7	3	36
33	Drawing a Pencil-Trace Cathode for a High-Performance Polymer-Based Li-O ₂ Battery with Redox Mediator. <i>Advanced Functional Materials</i> , 2019 , 29, 1806863	15.6	32
32	High Polymerization Conversion and Stable High-Voltage Chemistry Underpinning an In Situ Formed Solid Electrolyte. <i>Chemistry of Materials</i> , 2020 , 32, 9167-9175	9.6	31
31	A core-shell-structured TiO ₂ (B) nanofiber@porous RuO ₂ composite as a carbon-free catalytic cathode for Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21123-21132	13	27
30	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. <i>Nanoscale</i> , 2019 , 11, 21943-21952	7.7	27
29	A Bismuth-Based Protective Layer for Magnesium Metal Anode in Noncorrosive Electrolytes. <i>ACS Energy Letters</i> , 2021 , 6, 2594-2601	20.1	26
28	Enhanced hydrogen evolution of MoS ₂ /RGO: vanadium, nitrogen dopants triggered new active sites and expanded interlayer. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2092-2099	6.8	26
27	Core-shell-structured Co@Co ₄ N nanoparticles encapsulated into MnO-modified porous N-doping carbon nanocubes as bifunctional catalysts for rechargeable Zn-air batteries. <i>Journal of Energy Chemistry</i> , 2020 , 50, 52-62	12	24
26	A Multifunction Lithium-Carbon Battery System Using a Dual Electrolyte. <i>ACS Energy Letters</i> , 2017 , 2, 36-44	20.1	23
25	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. <i>Angewandte Chemie</i> , 2016 , 128, 4563-4567	3.6	22
24	Three-Dimensional Ordered Macroporous FePO ₄ as High-Efficiency Catalyst for Rechargeable Li-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31638-31645	9.5	20
23	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. <i>Energy Storage Materials</i> , 2020 , 26, 593-603	19.4	20
22	A Thin-Film Direct Hydrogen Peroxide/Borohydride Micro Fuel Cell. <i>Advanced Energy Materials</i> , 2013 , 3, 713-717	21.8	16
21	A Rechargeable Li-CO ₂ Battery with a Gel Polymer Electrolyte. <i>Angewandte Chemie</i> , 2017 , 129, 9254-9258	3.6	15

20	Multifunctional Cellulose Nanocrystals as a High-Efficient Polysulfide Stopper for Practical Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17592-17601	9.5	15
19	A universal cross-linking binding polymer composite for ultrahigh-loading Li-ion battery electrodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9693-9700	13	15
18	Fe/N-doped carbon nanofibers with Fe ₃ O ₄ /Fe ₂ C nanocrystals enmeshed as electrocatalysts for efficient oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2296-2303	6.8	13
17	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. <i>Chemical Communications</i> , 2019 , 55, 10092-10095	5.8	13
16	Constructing in-situ polymerized electrolyte on lithiophilic anode for high-performance lithium-air batteries operating in ambient conditions. <i>Energy Storage Materials</i> , 2021 , 43, 221-228	19.4	12
15	Iridium coated Co nanoparticles embedded into highly porous N-doped carbon nanocubes grafted with carbon nanotubes as a catalytic cathode for high-performance Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17865-17875	13	8
14	Cationic-Polymer-Functionalized Separator As a High-Efficiency Polysulfide Shuttle Barrier for Long-Life Li-S Battery. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2914-2921	6.1	6
13	A low-cost and eco-friendly network binder coupling stiffness and softness for high-performance Li-ion batteries. <i>Electrochimica Acta</i> , 2021 , 387, 138491	6.7	3
12	Designing a new-type PMMA based gel polymer electrolyte incorporating ionic liquid for lithium oxygen batteries with Ru-based Binder-free cathode. <i>Applied Surface Science</i> , 2021 , 565, 150612	6.7	3
11	A dendrite-free and stable anode for high-performance Li-O batteries by pre-storing Li in reduced graphene oxide coated three-dimensional nickel foam. <i>Chemical Communications</i> , 2020 , 56, 7645-7648	5.8	2
10	Leaf-like Graphene Oxide with a Carbon Nanotube Midrib and Its Application in Energy Storage Devices. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	2
9	I-containing Polymer/Alloy Layer-Based Li Anode Mediating High-Performance Lithium-Air Batteries. <i>Advanced Functional Materials</i> , 2108993	15.6	2
8	Correction: A lithium air battery with a lithiated Al-carbon anode. <i>Chemical Communications</i> , 2021 , 57, 3724	5.8	2
7	Protecting Li-metal anode with ethylenediamine-based layer and in-situ formed gel polymer electrolyte to construct the high-performance Li-O ₂ battery. <i>Journal of Power Sources</i> , 2021 , 506, 230226	8.9	2
6	Catalytic Cathodes: A Highly Reversible Long-Life Li-O ₂ Battery with a RuP ₂ -Based Catalytic Cathode (Small 29/2019). <i>Small</i> , 2019 , 15, 1970155	11	1
5	MnO ₂ nanosheet modified N, P co-doping carbon nanofibers on carbon cloth as lithiophilic host to construct high-performance anodes for Li metal batteries. <i>Journal of Energy Chemistry</i> , 2022 , 69, 270-270	12	1
4	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-O ₂ batteries. <i>Nano Research</i> , 1	10	1
3	Ruthenium-Modified Bimetallic Zeolitic-Imidazolate Framework Derivative as a High-Efficient Catalyst for Rechargeable Zinc-Air Batteries. <i>Batteries and Supercaps</i> ,	5.6	1

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| 2 | Polydopamine-coated bimetallic ZIF derivatives as an air cathode for acidic Zn-air batteries with super-high potential. <i>Chemical Communications</i> , 2021 , 57, 11248-11251 | 5.8 | 1 |
| 1 | Designing porous and stable Au-coated Ni nanosheets on Ni foam for quasi-symmetrical polymer Li-air batteries. <i>Materials Chemistry Frontiers</i> , 2022 , 6, 352-359 | 7.8 | |