

# Chang-Xin Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

3,699  
citations

172457

29  
h-index

345221

36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

3126  
citing authors

#	ARTICLE	IF	CITATIONS
1	The formation of crystalline lithium sulfide on electrocatalytic surfaces in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2022, 64, 568-573.	12.9	56
2	Lignin-derived materials and their applications in rechargeable batteries. <i>Green Chemistry</i> , 2022, 24, 565-584.	9.0	37
3	Preconstructing Asymmetric Interface in Air Cathodes for High-Performance Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , 2022, 34, e2109407.	21.0	54
4	Frontispiece: Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	2
5	Frontispiz: Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
6	A clicking confinement strategy to fabricate transition metal single-atom sites for bifunctional oxygen electrocatalysis. <i>Science Advances</i> , 2022, 8, eabn5091.	10.3	123
7	Full-Range Redox Mediation on Sulfur Redox Kinetics for High-Performance Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	41
8	Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	9
9	Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	67
10	An anionic regulation mechanism for the structural reconstruction of sulfide electrocatalysts under oxygen evolution conditions. <i>Energy and Environmental Science</i> , 2022, 15, 3257-3264.	30.8	74
11	Working Zinc-Air Batteries at 80% $\hat{\text{A}}^{\circ}\text{C}$ . <i>Angewandte Chemie</i> , 2022, 134, .	2.0	15
12	Intrinsic Electrocatalytic Activity Regulation of Mn-N-C Single-Atom Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4448-4463.	13.8	433
13	Intrinsische elektrokatalytische Aktivitätssteuerung von Mn-N-C-Einzelatom-Katalysatoren für die Sauerstoffreduktionsreaktion. <i>Angewandte Chemie</i> , 2021, 133, 4496-4512.	2.0	40
14	Redox mediator assists electron transfer in lithium-sulfur batteries with sulfurized polyacrylonitrile cathodes. <i>EcoMat</i> , 2021, 3, e12066.	11.9	69
15	Recent advances of noble-metal-free bifunctional oxygen reduction and evolution electrocatalysts. <i>Chemical Society Reviews</i> , 2021, 50, 7745-7778.	38.1	385
16	A $\langle b \rangle \hat{\text{I}} \langle /b \rangle \langle i \rangle \hat{\text{E}} \langle /i \rangle \hat{\text{A}} = 0.63 \text{ V}$ Bifunctional Oxygen Electrocatalyst Enables High-Rate and Long-Cycling Zinc-Air Batteries. <i>Advanced Materials</i> , 2021, 33, e2008606.	21.0	154
17	Zinc-Air Batteries: A $\langle b \rangle \hat{\text{I}} \langle /b \rangle \langle i \rangle \hat{\text{E}} \langle /i \rangle \hat{\text{A}} = 0.63 \text{ V}$ Bifunctional Oxygen Electrocatalyst Enables High-Rate and Long-Cycling Zinc-Air Batteries (Adv. Mater. 15/2021). <i>Advanced Materials</i> , 2021, 33, 2170117.	21.0	5
18	Can Aqueous Zinc-Air Batteries Work at Sub-Zero Temperatures?. <i>Angewandte Chemie</i> , 2021, 133, 15409-15413.	2.0	53

#	ARTICLE	IF	CITATIONS
19	Can Aqueous Zinc-Air Batteries Work at Sub-Zero Temperatures?. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15281-15285.	13.8	76
20	Quantitative kinetic analysis on oxygen reduction reaction: A perspective. <i>Nano Materials Science</i> , 2021, 3, 313-318.	8.8	64
21	Multianion Transition Metal Compounds: Synthesis, Regulation, and Electrocatalytic Applications. <i>Accounts of Materials Research</i> , 2021, 2, 1082-1092.	11.7	13
22	Semi-Immobilized Molecular Electrocatalysts for High-Performance Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021, 143, 19865-19872.	13.7	173
23	Synergetic Coupling of Lithiophilic Sites and Conductive Scaffolds for Dendrite-Free Lithium Metal Anodes. <i>Small Methods</i> , 2020, 4, 1900177.	8.6	31
24	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10732-10745.	13.8	108
25	A Composite Bifunctional Oxygen Electrocatalyst for High-Performance Rechargeable Zinc-Air Batteries. <i>ChemSusChem</i> , 2020, 13, 1529-1536.	6.8	28
26	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie</i> , 2020, 132, 10821-10834.	2.0	80
27	Seawater electrolyte-based metal-air batteries: from strategies to applications. <i>Energy and Environmental Science</i> , 2020, 13, 3253-3268.	30.8	128
28	Multiscale Construction of Bifunctional Electrocatalysts for Long-Lifespan Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003619.	14.9	70
29	Asymmetric Air Cathode Design for Enhanced Interfacial Electrocatalytic Reactions in High-Performance Zinc-Air Batteries. <i>Advanced Materials</i> , 2020, 32, e1908488.	21.0	107
30	A Mixed Ether Electrolyte for Lithium Metal Anode Protection in Working Lithium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2020, 3, 160-165.	12.8	85
31	Precise anionic regulation of NiFe hydroxysulfide assisted by electrochemical reactions for efficient electrocatalysis. <i>Energy and Environmental Science</i> , 2020, 13, 1711-1716.	30.8	103
32	Framework-Porphyrin-Derived Single-Atom Bifunctional Oxygen Electrocatalysts and their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1900592.	21.0	256
33	Transition metal coordinated framework porphyrin for electrocatalytic oxygen reduction. <i>Chinese Chemical Letters</i> , 2019, 30, 911-914.	9.0	54
34	Electrosynthesis of Hydrogen Peroxide Synergistically Catalyzed by Atomic Co-Ni Sites and Oxygen Functional Groups in Noble-Metal-Free Electrocatalysts. <i>Advanced Materials</i> , 2019, 31, e1808173.	21.0	252
35	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium-sulfur batteries. <i>Informa-Materials</i> , 2019, 1, 533-541.	17.3	261
36	Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. <i>Research</i> , 2019, 2019, 1-11.	5.7	33

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37	Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. <i>Research</i> , 2019, 2019, 4608940.	5.7	29
38	Polysulfide Electrocatalysis on Framework Porphyrin in High-Capacity and High-Stable Lithium-Sulfur Batteries. <i>CCS Chemistry</i> , 0, , 128-137.	7.8	131