

# Chang-Xin Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8680886/publications.pdf>

Version: 2024-02-01

38  
papers

3,699  
citations

172207

29  
h-index

344852

36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

3126  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.2	433
2	Recent advances of noble-metal-free bifunctional oxygen reduction and evolution electrocatalysts. <i>Chemical Society Reviews</i> , 2021, 50, 7745-7778.	18.7	385
3	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium-sulfur batteries. <i>Informa-Materials</i> , 2019, 1, 533-541.	8.5	261
4	Framework-Porphyrin-Derived Single-Atom Bifunctional Oxygen Electrocatalysts and their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1900592.	11.1	256
5	Electrosynthesis of Hydrogen Peroxide Synergistically Catalyzed by Atomic Co-N-C Sites and Oxygen Functional Groups in Noble-Metal-Free Electrocatalysts. <i>Advanced Materials</i> , 2019, 31, e1808173.	11.1	252
6	Semi-Immobilized Molecular Electrocatalysts for High-Performance Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021, 143, 19865-19872.	6.6	173
7	A "bifunctional" 0.63 V Bifunctional Oxygen Electrocatalyst Enables High-Rate and Long-Cycling Zinc-Air Batteries. <i>Advanced Materials</i> , 2021, 33, e2008606.	11.1	154
8	Polysulfide Electrocatalysis on Framework Porphyrin in High-Capacity and High-Stable Lithium-Sulfur Batteries. <i>CCS Chemistry</i> , 0, , 128-137.	4.6	131
9	Seawater electrolyte-based metal-air batteries: from strategies to applications. <i>Energy and Environmental Science</i> , 2020, 13, 3253-3268.	15.6	128
10	A clicking confinement strategy to fabricate transition metal single-atom sites for bifunctional oxygen electrocatalysis. <i>Science Advances</i> , 2022, 8, eabn5091.	4.7	123
11	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.	7.2	108
12	Asymmetric Air Cathode Design for Enhanced Interfacial Electrocatalytic Reactions in High-Performance Zinc-Air Batteries. <i>Advanced Materials</i> , 2020, 32, e1908488.	11.1	107
13	Precise anionic regulation of NiFe hydroxysulfide assisted by electrochemical reactions for efficient electrocatalysis. <i>Energy and Environmental Science</i> , 2020, 13, 1711-1716.	15.6	103
14	A Mixed Ether Electrolyte for Lithium Metal Anode Protection in Working Lithium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2020, 3, 160-165.	7.3	85
15	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie</i> , 2020, 132, 10821-10834.	1.6	80
16	Can Aqueous Zinc-Air Batteries Work at Sub-Zero Temperatures?. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15281-15285.	7.2	76
17	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.	15.6	74
18	Multiscale Construction of Bifunctional Electrocatalysts for Long-Lifespan Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003619.	7.8	70

#	ARTICLE	IF	CITATIONS
19	Redox mediator assists electron transfer in lithium-sulfur batteries with sulfurized polyacrylonitrile cathodes. <i>EcoMat</i> , 2021, 3, e12066.	6.8	69
20	Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	67
21	Quantitative kinetic analysis on oxygen reduction reaction: A perspective. <i>Nano Materials Science</i> , 2021, 3, 313-318.	3.9	64
22	The formation of crystalline lithium sulfide on electrocatalytic surfaces in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2022, 64, 568-573.	7.1	56
23	Transition metal coordinated framework porphyrin for electrocatalytic oxygen reduction. <i>Chinese Chemical Letters</i> , 2019, 30, 911-914.	4.8	54
24	Preconstructing Asymmetric Interface in Air Cathodes for High-Performance Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , 2022, 34, e2109407.	11.1	54
25	Can Aqueous Zinc-Air Batteries Work at Sub-Zero Temperatures?. <i>Angewandte Chemie</i> , 2021, 133, 15409-15413.	1.6	53
26	Full-Range Redox Mediation on Sulfur Redox Kinetics for High-Performance Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	41
27	Intrinsische elektrokatalytische Aktivitätssteuerung von MäNäCäEinzelatomäKatalysatoren für die Sauerstoffreduktionsreaktion. <i>Angewandte Chemie</i> , 2021, 133, 4496-4512.	1.6	40
28	Lignin-derived materials and their applications in rechargeable batteries. <i>Green Chemistry</i> , 2022, 24, 565-584.	4.6	37
29	Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. <i>Research</i> , 2019, 2019, 1-11.	2.8	33
30	Synergetic Coupling of Lithiophilic Sites and Conductive Scaffolds for Dendrite-Free Lithium Metal Anodes. <i>Small Methods</i> , 2020, 4, 1900177.	4.6	31
31	Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. <i>Research</i> , 2019, 2019, 4608940.	2.8	29
32	A Composite Bifunctional Oxygen Electrocatalyst for High-Performance Rechargeable Zinc-Air Batteries. <i>ChemSusChem</i> , 2020, 13, 1529-1536.	3.6	28
33	Working Zinc-Air Batteries at 80%°C. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	15
34	Multianion Transition Metal Compounds: Synthesis, Regulation, and Electrocatalytic Applications. <i>Accounts of Materials Research</i> , 2021, 2, 1082-1092.	5.9	13
35	Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	9
36	Zinc-Air Batteries: A $E_{\text{O}_2/\text{OH}^-} = 0.63$ V Bifunctional Oxygen Electrocatalyst Enables High-Rate and Long-Cycling Zinc-Air Batteries ( <i>Adv. Mater.</i> 15/2021). <i>Advanced Materials</i> , 2021, 33, 2170117.	11.1	5

#	ARTICLE	IF	CITATIONS
37	Frontispiece: Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	2
38	Frontispiz: Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0