

Longsheng Cao

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,958
citations

471509

17
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1988
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvation Structure Design for Aqueous Zn Metal Batteries. Journal of the American Chemical Society, 2020, 142, 21404-21409.	13.7	680
2	Fluorinated interphase enables reversible aqueous zinc battery chemistries. Nature Nanotechnology, 2021, 16, 902-910.	31.5	560
3	Hydrophobic Organicâ€Electrolyteâ€Protected Zinc Anodes for Aqueous Zinc Batteries. Angewandte Chemie - International Edition, 2020, 59, 19292-19296.	13.8	287
4	Design of a Solid Electrolyte Interphase for Aqueous Zn Batteries. Angewandte Chemie - International Edition, 2021, 60, 13035-13041.	13.8	239
5	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO ₂ Cathode for Li-ion and Li-metal Batteries. Joule, 2019, 3, 2550-2564.	24.0	167
6	Tuning the Anodeâ€Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	21.0	156
7	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilicâ€Zincophobic Interfacial Layers and Interrupted Hydrogenâ€Bond Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 18845-18851.	13.8	150
8	Critical Factors Dictating Reversibility of the Zinc Metal Anode. Energy and Environmental Materials, 2020, 3, 516-521.	12.8	110
9	Highâ€Energy Aqueous Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 11943-11948.	13.8	100
10	Formation of LiFâ€rich Cathodeâ€Electrolyte Interphase by Electrolyte Reduction. Angewandte Chemie - International Edition, 2022, 61, .	13.8	90
11	Enabling safe aqueous lithium ion open batteries by suppressing oxygen reduction reaction. Nature Communications, 2020, 11, 2638.	12.8	71
12	Interfacial-engineering-enabled practical low-temperature sodium metal battery. Nature Nanotechnology, 2022, 17, 269-277.	31.5	69
13	Anchoring ultrafine Pt nanoparticles on the 3D hierarchical self-assembly of graphene/functionalized carbon black as a highly efficient oxygen reduction catalyst for PEMFCs. Journal of Materials Chemistry A, 2018, 6, 15074-15082.	10.3	50
14	Waterâ€Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. Small, 2020, 16, e2000741.	10.0	34
15	Hydrophobic Organicâ€Electrolyteâ€Protected Zinc Anodes for Aqueous Zinc Batteries. Angewandte Chemie, 2020, 132, 19454-19458.	2.0	30
16	Development of advanced catalytic layer based on vertically aligned conductive polymer arrays for thin-film fuel cell electrodes. Journal of Power Sources, 2016, 329, 347-354.	7.8	28
17	Preparation of hollow PtCu nanoparticles as high-performance electrocatalysts for oxygen reduction reaction in the absence of a surfactant. RSC Advances, 2016, 6, 39993-40001.	3.6	23
18	Enhanced electrocatalytic performance of ultrathin PtNi alloy nanowires for oxygen reduction reaction. Frontiers in Energy, 2017, 11, 260-267.	2.3	17

#	ARTICLE	IF	CITATIONS
19	Large faceted Pd nanocrystals supported small Pt nanoparticles as highly durable electrocatalysts for oxygen reduction. <i>Journal of Power Sources</i> , 2016, 326, 23-34.	7.8	16
20	Design of a Solid Electrolyte Interphase for Aqueous Zn Batteries. <i>Angewandte Chemie</i> , 2021, 133, 13145-13151.	2.0	16
21	Formation of LiF-rich Cathode-Electrolyte Interphase by Electrolyte Reduction. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	16
22	Enhancing the Oxygen Reduction Reaction Performance by Modifying the Surface of Platinum Nanoparticles. <i>ChemElectroChem</i> , 2016, 3, 309-317.	3.4	14
23	High-Energy Aqueous Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 12050-12055.	2.0	13
24	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilic-Zincophobic Interfacial Layers and Interrupted Hydrogen-Bond Electrolytes. <i>Angewandte Chemie</i> , 2021, 133, 18993-18999.	2.0	11
25	Ammonium enables reversible aqueous Zn battery chemistries by tailoring the interphase. <i>One Earth</i> , 2022, 5, 413-421.	6.8	10
26	Nanofiber-Based Oxygen Reduction Electrocatalysts with Improved Mass Transfer Kinetics in a Meso-Porous Structure and Enhanced Reaction Kinetics by Confined Fe and Fe ₃ C Particles for Anion-Exchange Membrane Fuel Cells. <i>Energies</i> , 2022, 15, 4029.	3.1	1