Tao Zhang

List of Publications by Year
in descending order

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38 papers	1,228 citations	567281 15 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	1760 citing authors

#	Article	IF	Citations
1	Dispersion hydrophobic electrolyte enables lithium-oxygen battery enduring saturated water vapor. Journal of Energy Chemistry, 2022, 64, 511-519.	12.9	7
2	Boosting capacity and operating voltage of LiVO3 as cathode for lithium-ion batteries by activating oxygen reaction in the lattice. Journal of Power Sources, 2022, 517, 230728.	7.8	7
3	Ru Coordinated ZnIn₂S₄ Triggers Local Latticeâ€Strain Engineering to Endow Highâ€Efficiency Electrocatalyst for Advanced Znâ€Air Batteries. Advanced Functional Materials, 2022, 32, .	14.9	37
4	Sacrificial Co-solvent Electrolyte to Construct a Stable Solid Electrolyte Interphase in Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2022, 14, 10327-10336.	8.0	6
5	Anionâ€Decoordination Cell Formation Process Stabilizes Dual Electrodes for Longâ€Life Quasiâ€Solidâ€State Lithium Metal Battery. Advanced Materials Interfaces, 2022, 9, .	3.7	3
6	Perfluorinated organics regulating Li₂O₂formation and improving stability for Liâ€“oxygen batteries. Chemical Communications, 2021, 57, 3030-3033.	4.1	6
7	Deciphering the Enigma of Li₂CO₃ Oxidation Using a Solid-State Liâ€“Air Battery Configuration. ACS Applied Materials & Interfaces, 2021, 13, 14321-14326.	8.0	13
8	Bifunctional 1-Boc-3-Iodoazetidine Enhancing Lithium Anode Stability and Rechargeability of Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2021, 13, 16437-16444.	8.0	7
9	Metal nano-drills directionally regulate pore structure in carbon. Carbon, 2021, 175, 60-68.	10.3	7
10	Chimerism of Carbon by Ruthenium Induces Gradient Catalysis. Advanced Functional Materials, 2021, 31, 2104011.	14.9	10
11	A Surface Coordination Interphase Stabilizes a Solidâ€State Battery. Angewandte Chemie, 2021, 133, 24364.	2.0	1
12	A Surface Coordination Interphase Stabilizes a Solidâ€State Battery. Angewandte Chemie - International Edition, 2021, 60, 24162-24170.	13.8	31
13	Innentitelbild: A Surface Coordination Interphase Stabilizes a Solidâ€State Battery (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /Overlo	2.0	0
14	A bromo-nitro redox mediator of BrCH2NO2 for efficient lithiumâ€“oxygen batteries. Journal of Power Sources, 2021, 506, 230181.	7.8	11
15	Partial Disproportionation Gallium-Oxygen Reaction Boosts Lithium-Oxygen Batteries. Energy Storage Materials, 2021, 41, 475-484.	18.0	12
16	Localization of electrons within interlayer stabilizes NASICON-type solid-state electrolyte. Materials Today Energy, 2021, 22, 100875.	4.7	9
17	Micro versus nanochannels: carbon micro-sieve tubes from biological phloem tissues for lithiumâ€“oxygen batteries. Green Chemistry, 2020, 22, 388-396.	9.0	15
18	Conversion inorganic interlayer of a LiF/graphene composite in all-solid-state lithium batteries. Chemical Communications, 2020, 56, 1725-1728.	4.1	14

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19	Highly Localized Câ€“N2 Sites for Efficient Oxygen Reduction. ACS Catalysis, 2020, 10, 9366-9375.	11.2	21
20	On-surface lithium donor reaction enables decarbonated lithium garnets and compatible interfaces within cathodes. Nature Communications, 2020, 11, 5519.	12.8	63
21	A porous framework infiltrating Liâ€“O₂ battery: a low-resistance and high-safety system. Sustainable Energy and Fuels, 2020, 4, 1600-1606.	4.9	10
22	Inward growth of superthin TiC skin on carbon nanotube framework as stable cathode support for Liâ€“O2 batteries. Energy Storage Materials, 2020, 30, 59-66.	18.0	20
23	Interfacial integration and roll forming of quasi-solid-state Liâ€“O2 battery through solidification and gelation of ionic liquid. Journal of Power Sources, 2020, 463, 228179.	7.8	20
24	Anode interfacial layer formation via reductive ethyl detaching of organic iodide in lithiumâ€“oxygen batteries. Nature Communications, 2019, 10, 3543.	12.8	55
25	A review of oxygen reduction mechanisms for metal-free carbon-based electrocatalysts. Npj Computational Materials, 2019, 5, .	8.7	480
26	Mechanochemical synthesis of multi-site electrocatalysts as bifunctional zincâ€“air battery electrodes. Journal of Materials Chemistry A, 2019, 7, 19355-19363.	10.3	53
27	Inverting the Triiodide Formation Reaction by the Synergy between Strong Electrolyte Solvation and Cathode Adsorption for Lithiumâ€“Oxygen Batteries. Angewandte Chemie, 2019, 131, 18565-18569.	2.0	2
28	Inverting the Triiodide Formation Reaction by the Synergy between Strong Electrolyte Solvation and Cathode Adsorption for Lithiumâ€“Oxygen Batteries. Angewandte Chemie - International Edition, 2019, 58, 18394-18398.	13.8	25
29	Halosilane triggers anodic silanization and cathodic redox for stable and efficient lithiumâ€“O₂ batteries. Journal of Materials Chemistry A, 2019, 7, 18237-18243.	10.3	15
30	Nanocomposite intermediate layers formed by conversion reaction of SnO2 for Li/garnet/Li cycle stability. Journal of Power Sources, 2019, 420, 15-21.	7.8	61
31	Easily Decomposed Discharge Products Induced by Cathode Construction for Highly Energy-Efficient Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2019, 11, 14803-14809.	8.0	20
32	Oxygen-free cell formation process obtaining LiF protected electrodes for improved stability in lithium-oxygen batteries. Energy Storage Materials, 2019, 23, 670-677.	18.0	27
33	RÃ¼cktitelbild: Inverting the Triiodide Formation Reaction by the Synergy between Strong Electrolyte Solvation and Cathode Adsorption for Lithiumâ€“Oxygen Batteries (Angew. Chem. 51/2019). Angewandte Chemie, 2019, 131, 18892-18892.	2.0	0
34	Suppressing Self-Discharge of Vanadium Diboride by Zwitterionicity of the Polydopamine Coating Layer. ACS Applied Materials & Interfaces, 2019, 11, 5123-5128.	8.0	9
35	Rechargeable solid-state Li-air batteries: a status report. Rare Metals, 2018, 37, 459-472.	7.1	35
36	Ionic activation via a hybrid ILâ€“SSE interfacial layer for Liâ€“O₂ batteries with 99.5% coulombic efficiency. Journal of Materials Chemistry A, 2018, 6, 12945-12949.	10.3	13

#	Article	IF	Citations
37	Co₃O₄/MnO₂/Hierarchically Porous Carbon as Superior Bifunctional Electrodes for Liquid and All-Solid-State Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2018, 10, 15591-15601.	8.0	89
38	One Step Fabrication of <scp>Co₃O₄â€PPy</scp> Cathode for Lithiumâ€<scp>O₂</scp> Batteries. Chinese Journal of Chemistry, 2017, 35, 35-40.	4.9	11