

Tao Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8363441/publications.pdf>

Version: 2024-02-01

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	A review of oxygen reduction mechanisms for metal-free carbon-based electrocatalysts. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	480
2	Co ₃ O ₄ /MnO ₂ /Hierarchically Porous Carbon as Superior Bifunctional Electrodes for Liquid and All-Solid-State Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15591-15601.	8.0	89
3	On-surface lithium donor reaction enables decarbonated lithium garnets and compatible interfaces within cathodes. <i>Nature Communications</i> , 2020, 11, 5519.	12.8	63
4	Nanocomposite intermediate layers formed by conversion reaction of SnO ₂ for Li/garnet/Li cycle stability. <i>Journal of Power Sources</i> , 2019, 420, 15-21.	7.8	61
5	Anode interfacial layer formation via reductive ethyl detaching of organic iodide in lithium-oxygen batteries. <i>Nature Communications</i> , 2019, 10, 3543.	12.8	55
6	Mechanochemical synthesis of multi-site electrocatalysts as bifunctional zinc-air battery electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19355-19363.	10.3	53
7	Ru Coordinated ZnIn ₂ S ₄ Triggers Local Lattice Strain Engineering to Endow High-Efficiency Electrocatalyst for Advanced Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	37
8	Rechargeable solid-state Li-air batteries: a status report. <i>Rare Metals</i> , 2018, 37, 459-472.	7.1	35
9	A Surface Coordination Interphase Stabilizes a Solid-State Battery. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24162-24170.	13.8	31
10	Oxygen-free cell formation process obtaining LiF protected electrodes for improved stability in lithium-oxygen batteries. <i>Energy Storage Materials</i> , 2019, 23, 670-677.	18.0	27
11	Inverting the Triiodide Formation Reaction by the Synergy between Strong Electrolyte Solvation and Cathode Adsorption for Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18394-18398.	13.8	25
12	Highly Localized N ₂ Sites for Efficient Oxygen Reduction. <i>ACS Catalysis</i> , 2020, 10, 9366-9375.	11.2	21
13	Easily Decomposed Discharge Products Induced by Cathode Construction for Highly Energy-Efficient Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14803-14809.	8.0	20
14	Inward growth of superthin TiC skin on carbon nanotube framework as stable cathode support for Li-O ₂ batteries. <i>Energy Storage Materials</i> , 2020, 30, 59-66.	18.0	20
15	Interfacial integration and roll forming of quasi-solid-state Li-O ₂ battery through solidification and gelation of ionic liquid. <i>Journal of Power Sources</i> , 2020, 463, 228179.	7.8	20
16	Halosilane triggers anodic silanization and cathodic redox for stable and efficient lithium-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18237-18243.	10.3	15
17	Micro <i>versus</i> nanochannels: carbon micro-sieve tubes from biological phloem tissues for lithium-oxygen batteries. <i>Green Chemistry</i> , 2020, 22, 388-396.	9.0	15
18	Conversion inorganic interlayer of a LiF/graphene composite in all-solid-state lithium batteries. <i>Chemical Communications</i> , 2020, 56, 1725-1728.	4.1	14

#	ARTICLE	IF	CITATIONS
19	Ionic activation <i>via</i> a hybrid Li ⁺ /SSE interfacial layer for Li ₂ O batteries with 99.5% coulombic efficiency. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12945-12949.	10.3	13
20	Deciphering the Enigma of Li ₂ CO ₃ Oxidation Using a Solid-State Li ⁺ Air Battery Configuration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14321-14326.	8.0	13
21	Partial Disproportionation Gallium-Oxygen Reaction Boosts Lithium-Oxygen Batteries. <i>Energy Storage Materials</i> , 2021, 41, 475-484.	18.0	12
22	One Step Fabrication of $\text{Co}_3\text{O}_4/\text{PPy}$ Cathode for Lithium ⁺ Batteries. <i>Chinese Journal of Chemistry</i> , 2017, 35, 35-40.	4.9	11
23	A bromo-nitro redox mediator of BrCH ₂ NO ₂ for efficient lithium ⁺ oxygen batteries. <i>Journal of Power Sources</i> , 2021, 506, 230181.	7.8	11
24	A porous framework infiltrating Li ⁺ battery: a low-resistance and high-safety system. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1600-1606.	4.9	10
25	Chimerism of Carbon by Ruthenium Induces Gradient Catalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2104011.	14.9	10
26	Suppressing Self-Discharge of Vanadium Diboride by Zwitterionicity of the Polydopamine Coating Layer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5123-5128.	8.0	9
27	Localization of electrons within interlayer stabilizes NASICON-type solid-state electrolyte. <i>Materials Today Energy</i> , 2021, 22, 100875.	4.7	9
28	Bifunctional 1-Boc-3-Iodoazetidone Enhancing Lithium Anode Stability and Rechargeability of Lithium ⁺ Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16437-16444.	8.0	7
29	Metal nano-drills directionally regulate pore structure in carbon. <i>Carbon</i> , 2021, 175, 60-68.	10.3	7
30	Dispersion hydrophobic electrolyte enables lithium-oxygen battery enduring saturated water vapor. <i>Journal of Energy Chemistry</i> , 2022, 64, 511-519.	12.9	7
31	Boosting capacity and operating voltage of LiVO ₃ as cathode for lithium-ion batteries by activating oxygen reaction in the lattice. <i>Journal of Power Sources</i> , 2022, 517, 230728.	7.8	7
32	Perfluorinated organics regulating Li ₂ O ₂ formation and improving stability for Li ⁺ oxygen batteries. <i>Chemical Communications</i> , 2021, 57, 3030-3033.	4.1	6
33	Sacrificial Co-solvent Electrolyte to Construct a Stable Solid Electrolyte Interphase in Lithium ⁺ Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10327-10336.	8.0	6
34	Anion ⁻ Decoordination Cell Formation Process Stabilizes Dual Electrodes for Long ⁻ Life Quasi ⁻ Solid ⁻ State Lithium Metal Battery. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	3
35	Inverting the Triiodide Formation Reaction by the Synergy between Strong Electrolyte Solvation and Cathode Adsorption for Lithium ⁺ Oxygen Batteries. <i>Angewandte Chemie</i> , 2019, 131, 18565-18569.	2.0	2
36	A Surface Coordination Interphase Stabilizes a Solid ⁻ State Battery. <i>Angewandte Chemie</i> , 2021, 133, 24364.	2.0	1

#	ARTICLE	IF	CITATIONS
37	Reaktitelbild: Inverting the Triiodide Formation Reaction by the Synergy between Strong Electrolyte Solvation and Cathode Adsorption for Lithium-Oxygen Batteries (Angew. Chem. 51/2019). Angewandte Chemie, 2019, 131, 18892-18892.	2.0	0
38	Innentitelbild: A Surface Coordination Interphase Stabilizes a Solid-State Battery (Angew. Chem.) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	2.0	0