

Yantao Zhang

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papers

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29
ext. papers

1,109
ext. citations

10.3
avg, IF

4.23
L-index

#	Paper	IF	Citations
29	Reversibility of Noble Metal-Catalyzed Aprotic Li-O ₂ Batteries. <i>Nano Letters</i> , 2015 , 15, 8084-90	11.5	139
28	Unlocking the Energy Capabilities of Lithium Metal Electrode with Solid-State Electrolytes. <i>Joule</i> , 2018 , 2, 1674-1689	27.8	133
27	A High-Performance Li-O Battery with a Strongly Solvating Hexamethylphosphoramide Electrolyte and a LiPON-Protected Lithium Anode. <i>Advanced Materials</i> , 2017 , 29, 1701568	24	123
26	High-Capacity and High-Rate Discharging of a Coenzyme Q ₁₀ -Catalyzed Li-O Battery. <i>Advanced Materials</i> , 2018 , 30, 1705571	24	71
25	LiO ₂ : Cryosynthesis and Chemical/Electrochemical Reactivities. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2334-2338	6.4	55
24	Unlocking the energy capabilities of micron-sized LiFePO ₄ . <i>Nature Communications</i> , 2015 , 6, 7898	17.4	51
23	Understanding oxygen electrochemistry in aprotic Li-O ₂ batteries. <i>Green Energy and Environment</i> , 2017 , 2, 186-203	5.7	49
22	Co ₉ S ₈ @carbon porous nanocages derived from a metal-organic framework: a highly efficient bifunctional catalyst for aprotic Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8595-8603	13	49
21	Decomposing lithium carbonate with a mobile catalyst. <i>Nano Energy</i> , 2017 , 36, 390-397	17.1	46
20	Carbonate coprecipitation preparation of Li-rich layered oxides using the oxalate anion ligand as high-energy, high-power and durable cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21219-21226	13	30
19	Pre-heat treatment of carbonate precursor firstly in nitrogen and then oxygen atmospheres: A new procedure to improve tap density of high-performance cathode material Li _{1.167} (Ni _{0.139} Co _{0.139} Mn _{0.556})O ₂ for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 292, 58-65	8.9	30
18	Li-ion batteries: Phase transition. <i>Chinese Physics B</i> , 2016 , 25, 016104	1.2	21
17	Tailoring the (Ni _{1/6} Co _{1/6} Mn _{4/6})CO ₃ precursors of Li-rich layered oxides for advanced lithium-ion batteries with the seed-mediated method. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 692-699	5.7	15
16	Taming Interfacial Instability in Lithium-Oxygen Batteries: A Polymeric Ionic Liquid Electrolyte Solution. <i>Advanced Energy Materials</i> , 2019 , 9, 1901967	21.8	13
15	Identifying a Stable Counter/Reference Electrode for the Study of Aprotic Na-O ₂ Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1270-A1274	3.9	13
14	The origin of potential rise during charging of Li-O ₂ batteries. <i>Science China Chemistry</i> , 2017 , 60, 1527-1532	7.9	12
13	Castoff derived Biomass-carbon supported MoS ₂ nanosheets for hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123244	4.4	11

12	Structure and electrochemical behaviors of spherical $\text{Li}_{1+x}\text{Ni}_{0.5}\text{Mn}_{0.5}\text{O}_2$ synthesized by rheological phase reaction method. <i>Electrochimica Acta</i> , 2014 , 150, 89-98	6.7	9
11	The effect of lithium content on the structure, morphology and electrochemical performance of Li-rich cathode materials $\text{Li}_{1+x}(\text{Ni}_{1/6}\text{Co}_{1/6}\text{Mn}_{4/6})\text{O}_2$. <i>New Journal of Chemistry</i> , 2017 , 41, 10048-10053	3.6	8
10	Tricycloquinazoline-containing 3D conjugated microporous polymers and 2D covalent quinazoline networks: microstructure and conductivity. <i>Polymer Chemistry</i> , 2021 , 12, 650-659	4.9	8
9	Effects on electrochemical performances for host material caused by structure change of modifying material. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17792-8	3.6	6
8	Hierarchical Li-rich oxide microspheres assembled from {010} exposed primary grains for high-rate lithium-ion batteries. <i>New Journal of Chemistry</i> , 2020 , 44, 8486-8493	3.6	5
7	Highly stable lithium metal anode enabled by lithiophilic and spatial-confined spherical-covalent organic framework. <i>Energy Storage Materials</i> , 2022 , 46, 374-383	19.4	4
6	Self-exfoliated covalent organic framework nano-mesh enabled regular charge distribution for highly stable lithium metal battery. <i>Energy Storage Materials</i> , 2022 , 47, 376-385	19.4	4
5	Covalent Triazine Frameworks with Palladium Nanoclusters as Highly Efficient Heterogeneous Catalysts for Styrene Oxidation. <i>ACS Applied Polymer Materials</i> ,	4.3	2
4	Well-connected NiMoS_4 nanosheets and Ni foam skeleton bonded through conductive reduced graphene oxide for highly efficient hybrid supercapacitor. <i>Diamond and Related Materials</i> , 2021 , 112, 108240	3.5	1
3	Cobalt disulfide supported on porous carbon foam as a high performance hydrogen evolution reaction catalyst. <i>New Journal of Chemistry</i> , 2021 , 45, 21334-21341	3.6	0
2	Hierarchical Porous Carbon Nanotube Spheres for High-performance K-O ₂ Batteries. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 254-258	2.2	0
1	Hollow spherical organic polymer artificial layer enabled stable Li metal anode. <i>Chemical Engineering Journal</i> , 2022 , 442, 136155	14.7	0