Nengneng Xu

List of Publications by Year
in descending order

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31 papers	1,131 citations	430874 18 h-index	477307 29 g-index
33 all docs	33 docs citations	33 times ranked	1401 citing authors

#	Article	IF	Citations
1	Imidazolium group prompted alkaline anion-exchange membrane with high performance for efficient electrochemical CO2 conversion. Green Energy and Environment, 2023, 8, 893-903.	8.7	9
2	Co/Ni dual-metal embedded in heteroatom doped porous carbon core-shell bifunctional electrocatalyst for rechargeable Zn-air batteries. Materials Reports Energy, 2022, 2, 100090.	3.2	0
3	Electro-conversion of methane to alcohols on â€œcapsule-likeâ€•binary metal oxide catalysts. Applied Catalysis B: Environmental, 2021, 282, 119572.	20.2	26
4	Carbonâ€based metalâ€free catalysts for electrochemical CO₂ reduction: Activity, selectivity, and stability. , 2021, 3, 24-49.		60
5	Metal chalcogenide-associated catalysts enabling CO₂ electroreduction to produce low-carbon fuels for energy storage and emission reduction: catalyst structure, morphology, performance, and mechanism. Journal of Materials Chemistry A, 2021, 9, 2526-2559.	10.3	26
6	Back Cover Image, Volume 3, Number 1, March 2021. , 2021, 3, ii.		0
7	Bimetallic Sulfide with Controllable Mg Substitution Anchored on CNTs as Hierarchical Bifunctional Catalyst toward Oxygen Catalytic Reactions for Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 37164-37172.	8.0	32
8	Cu/S-Occupation Bifunctional Oxygen Catalysts for Advanced Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 52836-52844.	8.0	15
9	Exploiting a High-Performance â€œDouble-Carbonâ€•Structure Co9S8/GN Bifunctional Catalysts for Rechargeable Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 38202-38210.	8.0	26
10	Fabrication of CoMN2O4 loaded nitrogen-doped graphene as bifunctional electrocatalyst for rechargeable zinc-air batteries. Functional Materials Letters, 2020, 13, 2051046.	1.2	2
11	Hierarchical bifunctional catalysts with tailored catalytic activity for high-energy rechargeable Zn-air batteries. Applied Energy, 2020, 279, 115876.	10.1	20
12	Rational fabrication of thin-layered NiCo2S4 loaded graphene as bifunctional non-oxide catalyst for rechargeable zinc-air batteries. Electrochimica Acta, 2020, 342, 136108.	5.2	33
13	Interweaving between MnO2 nanowires/ nanorods and carbon nanotubes as robust multifunctional electrode for both liquid and flexible electrochemical energy devices. Journal of Power Sources, 2020, 455, 227992.	7.8	25
14	Flexible self-supported bi-metal electrode as a highly stable carbon- and binder-free cathode for large-scale solid-state zinc-air batteries. Applied Catalysis B: Environmental, 2020, 272, 118953.	20.2	62
15	Insert Zn²⁺ in Tetrahedral Sites of Bi-metal Zn-Co Spinel Oxides with High Oxygen Catalytic Performance for Liquid and Flexible Zinc-Air Batteries. Journal of the Electrochemical Society, 2020, 167, 050512.	2.9	16
16	High-performing rechargeable/flexible zinc-air batteries by coordinated hierarchical Bi-metallic electrocatalyst and heterostructure anion exchange membrane. Nano Energy, 2019, 65, 104021.	16.0	62
17	Dual-active-sites design of CoSx anchored on nitrogen-doped carbon with tunable mesopore enables efficient Bi-Functional oxygen catalysis for ultra-stable zinc-air batteries. Journal of Power Sources, 2019, 438, 226953.	7.8	24
18	Promoter Effects of Functional Groups of Hydroxide-Conductive Membranes on Advanced CO₂ Electroreduction to Formate. ACS Applied Materials & Interfaces, 2019, 11, 6881-6889.	8.0	19

#	Article	IF	Citations
19	High-performance binary cross-linked alkaline anion polymer electrolyte membranes for all-solid-state supercapacitors and flexible rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 11257-11264.	10.3	70
20	Controllable Hortensia-like MnO₂ Synergized with Carbon Nanotubes as an Efficient Electrocatalyst for Long-Term Metalâ€“Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 578-587.	8.0	72
21	Efficient quantum dots anchored nanocomposite for highly active ORR/OER electrocatalyst of advanced metal-air batteries. Nano Energy, 2019, 57, 176-185.	16.0	162
22	Highly Stabilized Zincâ€Air Batteries Based on Nanostructured Co₃O₄ Composites as Efficient Bifunctional Electrocatalyst. ChemElectroChem, 2018, 5, 1976-1984.	3.4	20
23	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
24	CoFe2O4 nanoparticles decorated carbon nanotubes: Air-cathode bifunctional catalysts for rechargeable zinc-air batteries. Catalysis Today, 2018, 318, 144-149.	4.4	57
25	Bi-functional composite electrocatalysts consisting of nanoscale (La, Ca) oxides and carbon nanotubes for long-term zincâ€“air fuel cells and rechargeable batteries. Sustainable Energy and Fuels, 2018, 2, 91-95.	4.9	7
26	Alkaline Exchange Polymer Membrane Electrolyte for High Performance of All-Solid-State Electrochemical Devices. ACS Applied Materials & Interfaces, 2018, 10, 29593-29598.	8.0	52
27	Highly Stabilized Zinc-Air Batteries Based on Nanostructured Co3 O4 Composites as an Efficient Bifunctional Electrocatalyst. ChemElectroChem, 2018, 5, 1742-1742.	3.4	1
28	Superior stability of a bifunctional oxygen electrode for primary, rechargeable and flexible Znâ€“air batteries. Nanoscale, 2018, 10, 13626-13637.	5.6	36
29	A novel composite (FMC) to serve as a durable 3D-clam-shaped bifunctional cathode catalyst for both primary and rechargeable zinc-air batteries. Science Bulletin, 2017, 62, 1216-1226.	9.0	33
30	Nitrogen and sulfur co-doped mesoporous carbon as cathode catalyst for H2/O2 alkaline membrane fuel cell â€“ effect of catalyst/bonding layer loading. International Journal of Hydrogen Energy, 2016, 41, 9159-9166.	7.1	17
31	Self-assembly formation of Bi-functional Co3O4/MnO2-CNTs hybrid catalysts for achieving both high energy/power density and cyclic ability of rechargeable zinc-air battery. Scientific Reports, 2016, 6, 33590.	3.3	57