

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
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33
all docs

33
docs citations

33
times ranked

1401
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient quantum dots anchored nanocomposite for highly active ORR/OER electrocatalyst of advanced metal-air batteries. <i>Nano Energy</i> , 2019, 57, 176-185.	16.0	162
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	Controllable Hortensia-like MnO ₂ Synergized with Carbon Nanotubes as an Efficient Electrocatalyst for Long-Term Metal-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 578-587.	8.0	72
4	High-performance binary cross-linked alkaline anion polymer electrolyte membranes for all-solid-state supercapacitors and flexible rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11257-11264.	10.3	70
5	High-performing rechargeable/flexible zinc-air batteries by coordinated hierarchical Bi-metallic electrocatalyst and heterostructure anion exchange membrane. <i>Nano Energy</i> , 2019, 65, 104021.	16.0	62
6	Flexible self-supported bi-metal electrode as a highly stable carbon- and binder-free cathode for large-scale solid-state zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118953.	20.2	62
7	Carbon-based metal-free catalysts for electrochemical CO ₂ reduction: Activity, selectivity, and stability. , 2021, 3, 24-49.		60
8	Self-assembly formation of Bi-functional Co ₃ O ₄ /MnO ₂ -CNTs hybrid catalysts for achieving both high energy/power density and cyclic ability of rechargeable zinc-air battery. <i>Scientific Reports</i> , 2016, 6, 33590.	3.3	57
9	CoFe ₂ O ₄ nanoparticles decorated carbon nanotubes: Air-cathode bifunctional catalysts for rechargeable zinc-air batteries. <i>Catalysis Today</i> , 2018, 318, 144-149.	4.4	57
10	Alkaline Exchange Polymer Membrane Electrolyte for High Performance of All-Solid-State Electrochemical Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29593-29598.	8.0	52
11	Superior stability of a bifunctional oxygen electrode for primary, rechargeable and flexible Zn-air batteries. <i>Nanoscale</i> , 2018, 10, 13626-13637.	5.6	36
12	A novel composite (FMC) to serve as a durable 3D-clam-shaped bifunctional cathode catalyst for both primary and rechargeable zinc-air batteries. <i>Science Bulletin</i> , 2017, 62, 1216-1226.	9.0	33
13	Rational fabrication of thin-layered NiCo ₂ S ₄ loaded graphene as bifunctional non-oxide catalyst for rechargeable zinc-air batteries. <i>Electrochimica Acta</i> , 2020, 342, 136108.	5.2	33
14	Bimetallic Sulfide with Controllable Mg Substitution Anchored on CNTs as Hierarchical Bifunctional Catalyst toward Oxygen Catalytic Reactions for Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37164-37172.	8.0	32
15	Exploiting a High-Performance "Double-Carbon" Structure Co ₉ S ₈ /GN Bifunctional Catalysts for Rechargeable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38202-38210.	8.0	26
16	Electro-conversion of methane to alcohols on "capsule-like" binary metal oxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119572.	20.2	26
17	Metal chalcogenide-associated catalysts enabling CO ₂ electroreduction to produce low-carbon fuels for energy storage and emission reduction: catalyst structure, morphology, performance, and mechanism. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2526-2559.	10.3	26
18	Interweaving between MnO ₂ nanowires/ nanorods and carbon nanotubes as robust multifunctional electrode for both liquid and flexible electrochemical energy devices. <i>Journal of Power Sources</i> , 2020, 455, 227992.	7.8	25

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19	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. <i>Journal of Power Sources</i> , 2019, 438, 226953.	7.8	24
20	Highly Stabilized Zinc-Air Batteries Based on Nanostructured Co ₃ O ₄ Composites as Efficient Bifunctional Electrocatalyst. <i>ChemElectroChem</i> , 2018, 5, 1976-1984.	3.4	20
21	Hierarchical bifunctional catalysts with tailored catalytic activity for high-energy rechargeable Zn-air batteries. <i>Applied Energy</i> , 2020, 279, 115876.	10.1	20
22	Promoter Effects of Functional Groups of Hydroxide-Conductive Membranes on Advanced CO ₂ Electroreduction to Formate. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6881-6889.	8.0	19
23	Nitrogen and sulfur co-doped mesoporous carbon as cathode catalyst for H ₂ /O ₂ alkaline membrane fuel cell – effect of catalyst/bonding layer loading. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9159-9166.	7.1	17
24	Insert Zn ²⁺ in Tetrahedral Sites of Bi-metal Zn-Co Spinel Oxides with High Oxygen Catalytic Performance for Liquid and Flexible Zinc-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 050512.	2.9	16
25	Cu/S-Occupation Bifunctional Oxygen Catalysts for Advanced Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52836-52844.	8.0	15
26	Imidazolium group prompted alkaline anion-exchange membrane with high performance for efficient electrochemical CO ₂ conversion. <i>Green Energy and Environment</i> , 2023, 8, 893-903.	8.7	9
27	Bi-functional composite electrocatalysts consisting of nanoscale (La, Ca) oxides and carbon nanotubes for long-term zinc-air fuel cells and rechargeable batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 91-95.	4.9	7
28	Fabrication of CoMN ₂ O ₄ loaded nitrogen-doped graphene as bifunctional electrocatalyst for rechargeable zinc-air batteries. <i>Functional Materials Letters</i> , 2020, 13, 2051046.	1.2	2
29	Highly Stabilized Zinc-Air Batteries Based on Nanostructured Co ₃ O ₄ Composites as an Efficient Bifunctional Electrocatalyst. <i>ChemElectroChem</i> , 2018, 5, 1742-1742.	3.4	1
30	Back Cover Image, Volume 3, Number 1, March 2021. , 2021, 3, ii.		0
31	Co/Ni dual-metal embedded in heteroatom doped porous carbon core-shell bifunctional electrocatalyst for rechargeable Zn-air batteries. <i>Materials Reports Energy</i> , 2022, 2, 100090.	3.2	0