

Yao Yang

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54
papers

1,891
citations

27
h-index

43
g-index

64
ext. papers

2,612
ext. citations

10.7
avg, IF

5.38
L-index

#	Paper	IF	Citations
54	Synergistic Mn-Co catalyst outperforms Pt on high-rate oxygen reduction for alkaline polymer electrolyte fuel cells. <i>Nature Communications</i> , 2019 , 10, 1506	17.4	128
53	Metal-Organic-Framework-Derived Co-Fe Bimetallic Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10744-10750	16.4	122
52	Fe/N/C Nanotubes with Atomic Fe Sites: A Highly Active Cathode Catalyst for Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Catalysis</i> , 2017 , 7, 6485-6492	13.1	108
51	High-Loading Intermetallic Pt ₃ Co/C Core-Shell Nanoparticles as Enhanced Activity Electrocatalysts toward the Oxygen Reduction Reaction (ORR). <i>Chemistry of Materials</i> , 2018 , 30, 1532-1539	9.6	97
50	Pt-Decorated Composition-Tunable Pd-Fe@Pd/C Core-Shell Nanoparticles with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7248-7255	16.4	90
49	In Situ X-ray Absorption Spectroscopy of a Synergistic Co-Mn Oxide Catalyst for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1463-1466	16.4	78
48	Cobalt-Based Nitride-Core Oxide-Shell Oxygen Reduction Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19241-19245	16.4	74
47	Copper-Induced Formation of Structurally Ordered Pt ₂ FeCu Ternary Intermetallic Electrocatalysts with Tunable Phase Structure and Improved Stability. <i>Chemistry of Materials</i> , 2018 , 30, 5987-5995	9.6	68
46	A Strategy for Increasing the Efficiency of the Oxygen Reduction Reaction in Mn-Doped Cobalt Ferrites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4412-4421	16.4	66
45	Revealing the atomic ordering of binary intermetallics using in situ heating techniques at multilength scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1974-1983	11.5	64
44	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , 2019 , 31, e1902393	23.1	59
43	Golden Palladium Zinc Ordered Intermetallics as Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , 2019 , 13, 5968-5974	16.7	56
42	Systematic Optimization of Battery Materials: Key Parameter Optimization for the Scalable Synthesis of Uniform, High-Energy, and High Stability LiNiMnCoO Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35811-35819	9.5	52
41	Operando Methods in Electrocatalysis. <i>ACS Catalysis</i> , 2021 , 11, 1136-1178	13.1	49
40	High-Loading Composition-Tolerant CoMn Spinel Oxides with Performance beyond 1 W/cm ² in Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Energy Letters</i> , 2019 , 4, 1251-1257	20.1	48
39	Sulfur encapsulation by MOF-derived CoS ₂ embedded in carbon hosts for high-performance LiS batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21128-21139	13	48
38	Combinatorial Studies of Palladium-Based Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3980-3988	16.4	43

37	Multifunctional Electrocatalysts: RuM (M = Co, Ni, Fe) for Alkaline Fuel Cells and Electrolyzers. <i>ACS Catalysis</i> , 2020 , 10, 4608-4616	13.1	40
36	Dynamic Hosts for High-Performance LiS Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. <i>ACS Energy Letters</i> , 2018 , 3, 1325-1330	20.1	39
35	A PtRu catalyzed rechargeable oxygen electrode for Li-O ₂ batteries: performance improvement through Li ₂ O ₂ morphology control. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20618-23	3.6	39
34	Tuning the Morphology and Crystal Structure of Li ₂ O ₂ : A Graphene Model Electrode Study for Li-O ₂ Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21350-7	9.5	38
33	Scalable Synthesis of Ultrathin Mn ₃ N ₂ Exhibiting Room-Temperature Antiferromagnetism. <i>Advanced Functional Materials</i> , 2019 , 29, 1809001	15.6	37
32	Synergistic Bimetallic Metallic Organic Framework-Derived Pt-Co Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , 2020 , 14, 13069-13080	16.7	37
31	Design, synthesis and in vitro cytotoxicity evaluation of 5-(2-carboxyethenyl)isatin derivatives as anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 591-4	2.9	36
30	High-Performance GaO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5519-5526	9.5	35
29	Enhanced ORR Kinetics on Au-Doped PtCu Porous Films in Alkaline Media. <i>ACS Catalysis</i> , 2020 , 10, 9967-9976	9.7	31
28	Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. <i>ACS Catalysis</i> , 2020 , 10, 9977-9985	13.1	30
27	Tuning the Morphology of LiO by Noble and 3d metals: A Planar Model Electrode Study for Li-O Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19800-19806	9.5	27
26	Octahedral spinel electrocatalysts for alkaline fuel cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24425-24432	11.5	27
25	Interface-Enhanced Catalytic Selectivity on the C ₂ Products of CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2021 , 11, 2473-2482	13.1	27
24	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , 2022 ,	68.1	25
23	Methanol Oxidation Using Ternary Ordered Intermetallic Electrocatalysts: A DEMS Study. <i>ACS Catalysis</i> , 2020 , 10, 770-776	13.1	20
22	SnS/C nanocomposites for high-performance sodium ion battery anodes.. <i>RSC Advances</i> , 2018 , 8, 23847-23853	3.7	20
21	Porous Fe ₃ O ₄ Nanospheres as Effective Sulfur Hosts for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1656-A1661	3.9	19
20	NiGaO/rGO Composite as Long-Cycle-Life Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8025-8031	9.5	16

19	5-(2-carboxyethenyl) isatin derivative induces G ₂ M cell cycle arrest and apoptosis in human leukemia K562 cells. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 450, 1650-5	3.4	13
18	Ni-rich LiNi _{0.88} Mn _{0.06} Co _{0.06} O ₂ cathode interwoven by carbon fiber with improved rate capability and stability. <i>Journal of Power Sources</i> , 2020 , 447, 227344	8.9	12
17	Rock-Salt-Type MnCo ₂ O ₃ /C as Efficient Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Chemistry of Materials</i> , 2019 , 31, 9331-9337	9.6	11
16	Ultrahigh Rate Performance of a Robust Lithium Nickel Manganese Cobalt Oxide Cathode with Preferentially Orientated Li-Diffusing Channels. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41178-41187 ¹⁰	9.5	10
15	Nonprecious transition metal nitrides as efficient oxygen reduction electrocatalysts for alkaline fuel cells.. <i>Science Advances</i> , 2022 , 8, eabj1584	14.3	9
14	Lethal Effect of Total Dissolved Gas-Supersaturated Water with Suspended Sediment on River Sturgeon (<i>Acipenser dabryanus</i>). <i>Scientific Reports</i> , 2019 , 9, 13373	4.9	5
13	Hatching rate of Chinese sucker (<i>Myxocyprinus asiaticus</i> Bleeker) eggs exposed to total dissolved gas (TDG) supersaturation and the tolerance of juveniles to the interaction of TDG supersaturation and suspended sediment. <i>Aquaculture Research</i> , 2019 , 50, 1876-1884	1.9	5
12	Epitaxial Thin-Film Spinel Oxides as Oxygen Reduction Electrocatalysts in Alkaline Media. <i>Chemistry of Materials</i> , 2021 , 33, 4006-4013	9.6	5
11	Lithium-Sulfur redox: challenges and opportunities. <i>Current Opinion in Electrochemistry</i> , 2021 , 25, 1006527.2	7.2	5
10	Effects of total dissolved gas supersaturated water at varying suspended sediment concentrations on the survival of rock carp <i>Procypris rabaudi</i> . <i>Fisheries Science</i> , 2019 , 85, 1067-1075	1.9	4
9	Effects of continuous acute and intermittent exposure on the tolerance of juvenile yellow catfish (<i>Pelteobagrus fulvidraco</i>) in total dissolved gas supersaturated water. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 201, 110855	7	4
8	Elucidating Cathodic Corrosion Mechanisms with Operando Electrochemical Liquid-Cell STEM in Multiple Dimensions. <i>Microscopy and Microanalysis</i> , 2021 , 27, 238-240	0.5	3
7	Effect of Total Dissolved Gas Supersaturation on the Survival of Bighead Carp (). <i>Animals</i> , 2020 , 10,	3.1	2
6	Cryo-STEM-EDX for Reliable Characterization of Sulfur Distribution and the Rational Design of Sulfur Hosts for Li-S Batteries. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1654-1658	0.5	2
5	A completely precious metal-free alkaline fuel cell with enhanced performance using a carbon-coated nickel anode.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119883119	11.5	2
4	Quantifying the Atomic Ordering of Binary Intermetallic Nanocatalysts Using In Situ Heating STEM and XRD. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1488-1489	0.5	1
3	Metal Monolayers on Command: Underpotential Deposition at Nanocrystal Surfaces: A Quantitative Operando Electrochemical Transmission Electron Microscopy Study. <i>ACS Energy Letters</i> , 2022 , 7, 1292-1297	20.1	1
2	Optimal Planning and Management of Land Use in River Source Region: A Case Study of Songhua River Basin, China. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19, 6610	4.6	1

- 1 Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. *Cell Reports Physical Science*, **2022**, 100912

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