

# Yao Yang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nonprecious transition metal nitrides as efficient oxygen reduction electrocatalysts for alkaline fuel cells.. <i>Science Advances</i> , <b>2022</b> , 8, eabj1584	14.3	9
53	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	25
52	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> , <b>2022</b> , 119, e2119883119	11.5	2
51	Metal Monolayers on Command: Underpotential Deposition at Nanocrystal Surfaces: A Quantitative Operando Electrochemical Transmission Electron Microscopy Study. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1292-1297	20.1	1
50	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> , <b>2022</b> , 19, 6610	4.6	1
49	Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. <i>Cell Reports Physical Science</i> , <b>2022</b> , 100912	6.1	0
48	Epitaxial Thin-Film Spinel Oxides as Oxygen Reduction Electrocatalysts in Alkaline Media. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4006-4013	9.6	5
47	Lithium-Sulfur redox: challenges and opportunities. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 25, 1006527.2	7.2	5
46	Operando Methods in Electrocatalysis. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1136-1178	13.1	49
45	Interface-Enhanced Catalytic Selectivity on the C2 Products of CO2 Electroreduction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2473-2482	13.1	27
44	Elucidating Cathodic Corrosion Mechanisms with Operando Electrochemical Liquid-Cell STEM in Multiple Dimensions. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 238-240	0.5	3
43	Multifunctional Electrocatalysts: RuM (M = Co, Ni, Fe) for Alkaline Fuel Cells and Electrolyzers. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4608-4616	13.1	40
42	Combinatorial Studies of Palladium-Based Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3980-3988	16.4	43
41	Effect of Total Dissolved Gas Supersaturation on the Survival of Bighead Carp ( <i>Lates nilotica</i> ). <i>Animals</i> , <b>2020</b> , 10,	3.1	2
40	Ni-rich LiNi0.88Mn0.06Co0.06O2 cathode interwoven by carbon fiber with improved rate capability and stability. <i>Journal of Power Sources</i> , <b>2020</b> , 447, 227344	8.9	12
39	Methanol Oxidation Using Ternary Ordered Intermetallic Electrocatalysts: A DEMS Study. <i>ACS Catalysis</i> , <b>2020</b> , 10, 770-776	13.1	20
38	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> , <b>2020</b> , 201, 110855	7	4

37	Enhanced ORR Kinetics on Au-Doped Pt/Cu Porous Films in Alkaline Media. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9967-9976	9.76	31
36	Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9977-9985	13.1	30
35	Synergistic Bimetallic Metallic Organic Framework-Derived Pt-Co Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , <b>2020</b> , 14, 13069-13080	16.7	37
34	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> , <b>2020</b> , 26, 1654-1658	0.5	2
33	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> , <b>2019</b> , 85, 1067-1075	1.9	4
32	Lethal Effect of Total Dissolved Gas-Supersaturated Water with Suspended Sediment on River Sturgeon ( <i>Acipenser dabryanus</i> ). <i>Scientific Reports</i> , <b>2019</b> , 9, 13373	4.9	5
31	NiGaO/rGO Composite as Long-Cycle-Life Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 8025-8031	9.5	16
30	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> , <b>2019</b> , 116, 1974-1983	11.5	64
29	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> , <b>2019</b> , 50, 1876-1884	1.9	5
28	Metal-Organic-Framework-Derived Co-Fe Bimetallic Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10744-10750	16.4	122
27	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902393	23.1	59
26	High-Loading Composition-Tolerant CoMn Spinel Oxides with Performance beyond 1 W/cm <sup>2</sup> in Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1251-1257	20.1	48
25	Golden Palladium Zinc Ordered Intermetallics as Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , <b>2019</b> , 13, 5968-5974	16.7	56
24	Scalable Synthesis of Ultrathin Mn <sub>3</sub> N <sub>2</sub> Exhibiting Room-Temperature Antiferromagnetism. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1809001	15.6	37
23	Synergistic Mn-Co catalyst outperforms Pt on high-rate oxygen reduction for alkaline polymer electrolyte fuel cells. <i>Nature Communications</i> , <b>2019</b> , 10, 1506	17.4	128
22	Quantifying the Atomic Ordering of Binary Intermetallic Nanocatalysts Using In Situ Heating STEM and XRD. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1488-1489	0.5	1
21	Sulfur encapsulation by MOF-derived CoS <sub>2</sub> embedded in carbon hosts for high-performance LiS batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21128-21139	13	48
20	Ultrahigh Rate Performance of a Robust Lithium Nickel Manganese Cobalt Oxide Cathode with Preferentially Orientated Li-Diffusing Channels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41178-41187	9.5	110

19	Rock-Salt-Type MnCo <sub>2</sub> O <sub>3</sub> /C as Efficient Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9331-9337	9.6	11
18	A Strategy for Increasing the Efficiency of the Oxygen Reduction Reaction in Mn-Doped Cobalt Ferrites. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4412-4421	16.4	66
17	Cobalt-Based Nitride-Core Oxide-Shell Oxygen Reduction Electrocatalysts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19241-19245	16.4	74
16	Octahedral spinel electrocatalysts for alkaline fuel cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 24425-24432	11.5	27
15	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> , <b>2019</b> , 141, 1463-1466	16.4	78
14	High-Loading Intermetallic Pt <sub>3</sub> Co/C Core-Shell Nanoparticles as Enhanced Activity Electrocatalysts toward the Oxygen Reduction Reaction (ORR). <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1532-1539	9.6	97
13	High-Performance GaO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5519-5526	9.5	35
12	Copper-Induced Formation of Structurally Ordered Pt <sub>3</sub> FeCu Ternary Intermetallic Electrocatalysts with Tunable Phase Structure and Improved Stability. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5987-5995	9.6	68
11	Dynamic Hosts for High-Performance LiS Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1325-1330	20.1	39
10	Porous Fe <sub>3</sub> O <sub>4</sub> Nanospheres as Effective Sulfur Hosts for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1656-A1661	3.9	19
9	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> , <b>2018</b> , 140, 7248-7255	16.4	90
8	SnS/C nanocomposites for high-performance sodium ion battery anodes. <i>RSC Advances</i> , <b>2018</b> , 8, 23847-23853	3.5	20
7	Tuning the Morphology of LiO by Noble and 3d metals: A Planar Model Electrode Study for Li-O Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19800-19806	9.5	27
6	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 &amp; Interfaces</i> , <b>2017</b> , 9, 35811-35819	9.5	52
5	Fe/N/C Nanotubes with Atomic Fe Sites: A Highly Active Cathode Catalyst for Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6485-6492	13.1	108
4	Tuning the Morphology and Crystal Structure of Li <sub>2</sub> O <sub>2</sub> : A Graphene Model Electrode Study for Li-O <sub>2</sub> Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 21350-7	9.5	38
3	Design, synthesis and in vitro cytotoxicity evaluation of 5-(2-carboxyethenyl)isatin derivatives as anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 591-4	2.9	36
2	A PtRu catalyzed rechargeable oxygen electrode for Li-O <sub>2</sub> batteries: performance improvement through Li <sub>2</sub> O <sub>2</sub> morphology control. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20618-23	3.6	39

- 1 5-(2-carboxyethenyl) isatin derivative induces G<sub>2</sub>M cell cycle arrest and apoptosis in human leukemia K562 cells. *Biochemical and Biophysical Research Communications*, **2014**, 450, 1650-5 3-4 13