

# Hao-Fan Wang

## List of Publications by Year in Descending Order

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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.

44  
papers

5,600  
citations

32  
h-index

47  
g-index

47  
ext. papers

6,976  
ext. citations

15.5  
avg, IF

6.74  
L-index

#	Paper	IF	Citations
44	Recent advances in electrocatalytic oxygen reduction for on-site hydrogen peroxide synthesis in acidic media. <i>Journal of Energy Chemistry</i> , <b>2021</b> ,	12	9
43	Hollow Spherical Superstructure of Carbon Nanosheets for Bifunctional Oxygen Reduction and Evolution Electrocatalysis. <i>Nano Letters</i> , <b>2021</b> , 21, 3640-3648	11.5	15
42	A Gas-Steamed MOF Route to P-Doped Open Carbon Cages with Enhanced Zn-Ion Energy Storage Capability and Ultrastability. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101698	24	28
41	Revealing Active Function of Multicomponent Electrocatalysts from In Situ Nickel Redox for Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 16420-16427	3.8	2
40	Recent advances in spinel-type electrocatalysts for bifunctional oxygen reduction and oxygen evolution reactions. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 290-302	12	70
39	MOF-derived electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 1414-1448	58.5	587
38	From metal-organic frameworks to single/dual-atom and cluster metal catalysts for energy applications. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1658-1693	35.4	156
37	Bimetallic metal-organic frameworks and their derivatives. <i>Chemical Science</i> , <b>2020</b> , 11, 5369-5403	9.4	115
36	Recent Advances in Two-dimensional Materials for Electrochemical Energy Storage and Conversion. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 10-23	2.2	27
35	High-Power Microbial Fuel Cells Based on a Carbon-Carbon Composite Air Cathode. <i>Small</i> , <b>2020</b> , 16, e1905240	8	15240
34	Materials Design for Rechargeable Metal-Air Batteries. <i>Matter</i> , <b>2019</b> , 1, 565-595	12.7	207
33	A review of graphene-based 3D van der Waals hybrids and their energy applications. <i>Nano Today</i> , <b>2019</b> , 25, 27-37	17.9	38
32	3D Hierarchical Porous Graphene-Based Energy Materials: Synthesis, Functionalization, and Application in Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , <b>2019</b> , 2, 332-371	29.3	59
31	Core-branch CoNi hydroxysulfides with versatilely regulated electronic and surface structures for superior oxygen evolution electrocatalysis. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 38, 8-14	12	48
30	A Nanosized CoNi Hydroxide@Hydroxysulfide Core-Shell Heterostructure for Enhanced Oxygen Evolution. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805658	24	144
29	Freestanding Non-Precious Metal Electrocatalysts for Oxygen Evolution and Reduction Reactions. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1786-1804	4.3	26
28	A review of anion-regulated multi-anion transition metal compounds for oxygen evolution electrocatalysis. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 521-534	6.8	76

27	Multiscale Principles To Boost Reactivity in Gas-Involving Energy Electrocatalysis. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 881-889	24.3	335
26	Anion-Regulated Hydroxysulfide Monoliths as OER/ORR/HER Electrocatalysts and their Applications in Self-Powered Electrochemical Water Splitting. <i>Small Methods</i> , <b>2018</b> , 2, 1800055	12.8	63
25	Defect-rich carbon fiber electrocatalysts with porous graphene skin for flexible solid-state zinc-air batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 124-130	19.4	118
24	Template growth of nitrogen-doped mesoporous graphene on metal oxides and its use as a metal-free bifunctional electrocatalyst for oxygen reduction and evolution reactions. <i>Catalysis Today</i> , <b>2018</b> , 301, 25-31	5.3	53
23	A Review of Precious-Metal-Free Bifunctional Oxygen Electrocatalysts: Rational Design and Applications in Zn-Air Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803329	15.6	368
22	3D Mesoporous van der Waals Heterostructures for Trifunctional Energy Electrocatalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705110	24	132
21	Regulating p-block metals in perovskite nanodots for efficient electrocatalytic water oxidation. <i>Nature Communications</i> , <b>2017</b> , 8, 934	17.4	83
20	Bifunctional Transition Metal Hydroxysulfides: Room-Temperature Sulfurization and Their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702327	24	252
19	Defect Engineering toward Atomic Co-N -C in Hierarchical Graphene for Rechargeable Flexible Solid Zn-Air Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703185	24	473
18	SAPO-34 templated growth of hierarchical porous graphene cages as electrocatalysts for both oxygen reduction and evolution. <i>New Carbon Materials</i> , <b>2017</b> , 32, 509-516	4.4	11
17	Oxygen Electrocatalysis: Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis (Adv. Mater. 32/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 7030-7030	24	10
16	An aqueous preoxidation method for monolithic perovskite electrocatalysts with enhanced water oxidation performance. <i>Science Advances</i> , <b>2016</b> , 2, e1600495	14.3	63
15	CaO-Templated Growth of Hierarchical Porous Graphene for High-Power Lithium-Sulfur Battery Applications. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 577-585	15.6	294
14	Oxygen Reduction Reaction on Graphene in an Electro-Fenton System: In Situ Generation of H <sub>2</sub> O <sub>2</sub> for the Oxidation of Organic Compounds. <i>ChemSusChem</i> , <b>2016</b> , 9, 1194-9	8.3	67
13	A point-on-point hybrid electrocatalyst for bi-functional catalysis of oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3379-3385	13	50
12	Guest-host modulation of multi-metallic (oxy)hydroxides for superb water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3210-3216	13	55
11	The nanostructure preservation of 3D porous graphene: New insights into the graphitization and surface chemistry of non-stacked double-layer templated graphene after high-temperature treatment. <i>Carbon</i> , <b>2016</b> , 103, 36-44	10.4	24
10	Advances in Hybrid Electrocatalysts for Oxygen Evolution Reactions: Rational Integration of NiFe Layered Double Hydroxides and Nanocarbon. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 473-486	3.1	84

9	Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis. <i>Advanced Materials</i> , <b>2016</b> , 28, 6845-51	24	522
8	Monolithic-structured ternary hydroxides as freestanding bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7245-7250	13	135
7	Nitrogen-doped herringbone carbon nanofibers with large lattice spacings and abundant edges: Catalytic growth and their applications in lithium ion batteries and oxygen reduction reactions. <i>Catalysis Today</i> , <b>2015</b> , 249, 244-251	5.3	39
6	Towards superior oxygen evolution through graphene barriers between metal substrates and hydroxide catalysts. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16183-16189	13	47
5	Dual-sized NiFe layered double hydroxides in situ grown on oxygen-decorated self-dispersal nanocarbon as enhanced water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24540-24546	12	114
4	Catalysis: Spatially Confined Hybridization of Nanometer-Sized NiFe Hydroxides into Nitrogen-Doped Graphene Frameworks Leading to Superior Oxygen Evolution Reactivity (Adv. Mater. 30/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 4524	24	4
3	Spatially Confined Hybridization of Nanometer-Sized NiFe Hydroxides into Nitrogen-Doped Graphene Frameworks Leading to Superior Oxygen Evolution Reactivity. <i>Advanced Materials</i> , <b>2015</b> , 27, 4516-4522	24	533
2	Fluidized-bed CVD of unstacked double-layer templated graphene and its application in supercapacitors. <i>AIChE Journal</i> , <b>2015</b> , 61, 747-755	3.6	40
1	Micro/Nano-Scaled Metal-Organic Frameworks and Their Derivatives for Energy Applications. <i>Advanced Energy Materials</i> , 2003970	21.8	12