

Hao-Fan Wang

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44
papers

5,600
citations

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g-index

47
ext. papers

6,976
ext. citations

15.5
avg, IF

6.74
L-index

#	Paper	IF	Citations
44	MOF-derived electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Chemical Society Reviews</i> , 2020 , 49, 1414-1448	58.5	587
43	Spatially Confined Hybridization of Nanometer-Sized NiFe Hydroxides into Nitrogen-Doped Graphene Frameworks Leading to Superior Oxygen Evolution Reactivity. <i>Advanced Materials</i> , 2015 , 27, 4516-4522	24	533
42	Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2016 , 28, 6845-51	24	522
41	Defect Engineering toward Atomic Co-N -C in Hierarchical Graphene for Rechargeable Flexible Solid Zn-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1703185	24	473
40	A Review of Precious-Metal-Free Bifunctional Oxygen Electrocatalysts: Rational Design and Applications in Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1803329	15.6	368
39	Multiscale Principles To Boost Reactivity in Gas-Involving Energy Electrocatalysis. <i>Accounts of Chemical Research</i> , 2018 , 51, 881-889	24.3	335
38	CaO-Templated Growth of Hierarchical Porous Graphene for High-Power Lithium-Sulfur Battery Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 577-585	15.6	294
37	Bifunctional Transition Metal Hydroxysulfides: Room-Temperature Sulfurization and Their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702327	24	252
36	Materials Design for Rechargeable Metal-Air Batteries. <i>Matter</i> , 2019 , 1, 565-595	12.7	207
35	From metal-organic frameworks to single/dual-atom and cluster metal catalysts for energy applications. <i>Energy and Environmental Science</i> , 2020 , 13, 1658-1693	35.4	156
34	A Nanosized CoNi Hydroxide@Hydroxysulfide Core-Shell Heterostructure for Enhanced Oxygen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1805658	24	144
33	Monolithic-structured ternary hydroxides as freestanding bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7245-7250	13	135
32	3D Mesoporous van der Waals Heterostructures for Trifunctional Energy Electrocatalysis. <i>Advanced Materials</i> , 2018 , 30, 1705110	24	132
31	Defect-rich carbon fiber electrocatalysts with porous graphene skin for flexible solid-state zinc-air batteries. <i>Energy Storage Materials</i> , 2018 , 15, 124-130	19.4	118
30	Bimetallic metal-organic frameworks and their derivatives. <i>Chemical Science</i> , 2020 , 11, 5369-5403	9.4	115
29	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> , 2015 , 3, 24540-24546	13	114
28	Advances in Hybrid Electrocatalysts for Oxygen Evolution Reactions: Rational Integration of NiFe Layered Double Hydroxides and Nanocarbon. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 473-486	3.1	84

27	Regulating p-block metals in perovskite nanodots for efficient electrocatalytic water oxidation. <i>Nature Communications</i> , 2017 , 8, 934	17.4	83
26	A review of anion-regulated multi-anion transition metal compounds for oxygen evolution electrocatalysis. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 521-534	6.8	76
25	Recent advances in spinel-type electrocatalysts for bifunctional oxygen reduction and oxygen evolution reactions. <i>Journal of Energy Chemistry</i> , 2021 , 53, 290-302	12	70
24	Oxygen Reduction Reaction on Graphene in an Electro-Fenton System: In Situ Generation of H ₂ O ₂ for the Oxidation of Organic Compounds. <i>ChemSusChem</i> , 2016 , 9, 1194-9	8.3	67
23	Anion-Regulated Hydroxysulfide Monoliths as OER/ORR/HER Electrocatalysts and their Applications in Self-Powered Electrochemical Water Splitting. <i>Small Methods</i> , 2018 , 2, 1800055	12.8	63
22	An aqueous preoxidation method for monolithic perovskite electrocatalysts with enhanced water oxidation performance. <i>Science Advances</i> , 2016 , 2, e1600495	14.3	63
21	3D Hierarchical Porous Graphene-Based Energy Materials: Synthesis, Functionalization, and Application in Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 332-371	29.3	59
20	Guest/Host modulation of multi-metallic (oxy)hydroxides for superb water oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3210-3216	13	55
19	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> , 2018 , 301, 25-31	5.3	53
18	A point-line-point hybrid electrocatalyst for bi-functional catalysis of oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3379-3385	13	50
17	Core-branch CoNi hydroxysulfides with versatilely regulated electronic and surface structures for superior oxygen evolution electrocatalysis. <i>Journal of Energy Chemistry</i> , 2019 , 38, 8-14	12	48
16	Towards superior oxygen evolution through graphene barriers between metal substrates and hydroxide catalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16183-16189	13	47
15	Fluidized-bed CVD of unstacked double-layer templated graphene and its application in supercapacitors. <i>AIChE Journal</i> , 2015 , 61, 747-755	3.6	40
14	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> , 2015 , 249, 244-251	5.3	39
13	A review of graphene-based 3D van der Waals hybrids and their energy applications. <i>Nano Today</i> , 2019 , 25, 27-37	17.9	38
12	A Gas-Steamed MOF Route to P-Doped Open Carbon Cages with Enhanced Zn-Ion Energy Storage Capability and Ultrastability. <i>Advanced Materials</i> , 2021 , 33, e2101698	24	28
11	Recent Advances in Two-dimensional Materials for Electrochemical Energy Storage and Conversion. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 10-23	2.2	27
10	Freestanding Non-Precious Metal Electrocatalysts for Oxygen Evolution and Reduction Reactions. <i>ChemElectroChem</i> , 2018 , 5, 1786-1804	4.3	26

9	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> , 2016 , 103, 36-44	10.4	24
8	Hollow Spherical Superstructure of Carbon Nanosheets for Bifunctional Oxygen Reduction and Evolution Electrocatalysis. <i>Nano Letters</i> , 2021 , 21, 3640-3648	11.5	15
7	Micro/Nano-Scaled Metal-Organic Frameworks and Their Derivatives for Energy Applications. <i>Advanced Energy Materials</i> , 2003970	21.8	12
6	SAPO-34 templated growth of hierarchical porous graphene cages as electrocatalysts for both oxygen reduction and evolution. <i>New Carbon Materials</i> , 2017 , 32, 509-516	4.4	11
5	Oxygen Electrocatalysis: Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis (Adv. Mater. 32/2016). <i>Advanced Materials</i> , 2016 , 28, 7030-7030	24	10
4	Recent advances in electrocatalytic oxygen reduction for on-site hydrogen peroxide synthesis in acidic media. <i>Journal of Energy Chemistry</i> , 2021 ,	12	9
3	High-Power Microbial Fuel Cells Based on a Carbon-Carbon Composite Air Cathode. <i>Small</i> , 2020 , 16, e1905240	8	8
2	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> , 2015 , 27, 4524	24	4
1	Revealing Active Function of Multicomponent Electrocatalysts from In Situ Nickel Redox for Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16420-16427	3.8	2