Wen-Jie Jiang

List of Publications by Year
in descending order

64	8,638	46918 47	102304 66
papers	citations	h-index	g-index

66	66	66	10374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modulating Pt-O-Pt atomic clusters with isolated cobalt atoms for enhanced hydrogen evolution catalysis. Nature Communications, 2022, 13, 2430.	5.8	98
2	V₂O₃-Decorated Spinel CoFe₂O₄ with Carbon-Encapsulated Mesoporous Nanosheets for Efficient Water Splitting. ACS Sustainable Chemistry and Engineering, 2021, 9, 980-986.	3.2	23
3	Ni₃S₂/Ni Heterostructure Nanobelt Arrays as Bifunctional Catalysts for Urea-Rich Wastewater Degradation. ACS Applied Materials & Interfaces, 2021, 13, 35709-35718.	4.0	74
4	Selective Se doping of NiFe2O4 on an active NiOOH scaffold for efficient and robust water oxidation. Chinese Journal of Catalysis, 2021, 42, 1395-1403.	6.9	51
5	Anchoring Sites Engineering in Singleâ€Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. Advanced Materials, 2021, 33, e2102801.	11.1	64
6	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. Nano Letters, 2021, 21, 823-832.	4.5	91
7	Industrially Promising Nanowire Heterostructure Catalyst for Enhancing Overall Water Splitting at Large Current Density. ACS Sustainable Chemistry and Engineering, 2020, 8, 12063-12071.	3.2	38
8	Molecularly Engineered Strong Metal Oxideâ€“Support Interaction Enables Highly Efficient and Stable CO₂ Electroreduction. ACS Catalysis, 2020, 10, 13227-13235.	5.5	94
9	Regulating the charge diffusion of two-dimensional cobaltâ€“iron hydroxide/graphene composites for high-rate water oxidation. Journal of Materials Chemistry A, 2020, 8, 11573-11581.	5.2	18
10	Synergistic Modulation of Non-Precious-Metal Electrocatalysts for Advanced Water Splitting. Accounts of Chemical Research, 2020, 53, 1111-1123.	7.6	315
11	Metastable Rock Salt Oxide-Mediated Synthesis of High-Density Dual-Protected M@NC for Long-Life Rechargeable Zincâ€“Air Batteries with Record Power Density. Journal of the American Chemical Society, 2020, 142, 7116-7127.	6.6	147
12	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2020, 8, 15822-15828.	5.2	58
13	Bimetallic iron-iridium alloy nanoparticles supported on nickel foam as highly efficient and stable catalyst for overall water splitting at large current density. Applied Catalysis B: Environmental, 2020, 278, 119327.	10.8	125
14	Phosphorus-doping activates carbon nanotubes for efficient electroreduction of nitrogen to ammonia. Nano Research, 2020, 13, 1376-1382.	5.8	61
15	Organic Small Molecule Activates Transition Metal Foam for Efficient Oxygen Evolution Reaction. Advanced Materials, 2020, 32, e1906015.	11.1	56
16	Fe-doped Co₃O₄ polycrystalline nanosheets as a binder-free bifunctional cathode for robust and efficient zincâ€“air batteries. Chemical Communications, 2020, 56, 5374-5377.	2.2	36
17	Selfâ€Catalyzed Growth of Coâ€“Nâ€“C Nanobrushes for Efficient Rechargeable Znâ€“Air Batteries. Small, 2020, 16, e2001171.	5.2	84
18	Autogenous Growth of Hierarchical NiFe(OH)_x/FeS Nanosheetâ€Onâ€Microsheet Arrays for Synergistically Enhanced Highâ€Output Water Oxidation. Advanced Functional Materials, 2019, 29, 1902180.	7.8	179

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19	Expediting in-Situ Electrochemical Activation of Two-Dimensional Metalâ€“Organic Frameworks for Enhanced OER Intrinsic Activity by Iron Incorporation. ACS Catalysis, 2019, 9, 7356-7364.	5.5	215
20	Pore-structure-directed CO₂ electroreduction to formate on SnO₂/C catalysts. Journal of Materials Chemistry A, 2019, 7, 18428-18433.	5.2	59
21	Boosting hydrogen evolution activity and durability of Pdâ€“Niâ€“P nanocatalyst via crystalline degree and surface chemical state modulations. International Journal of Hydrogen Energy, 2019, 44, 31053-31061.	3.8	18
22	Hetero-coupling of a carbonate hydroxide and sulfide for efficient and robust water oxidation. Journal of Materials Chemistry A, 2019, 7, 21959-21965.	5.2	28
23	Fe/P dual doping boosts the activity and durability of CoS₂ polycrystalline nanowires for hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 5195-5200.	5.2	78
24	NiS₂ nanodotted carnation-like CoS₂ for enhanced electrocatalytic water splitting. Chemical Communications, 2019, 55, 3781-3784.	2.2	56
25	Chemical state of surrounding iron species affects the activity of Fe-Nx for electrocatalytic oxygen reduction. Applied Catalysis B: Environmental, 2019, 251, 240-246.	10.8	101
26	Se-Doping Activates FeOOH for Cost-Effective and Efficient Electrochemical Water Oxidation. Journal of the American Chemical Society, 2019, 141, 7005-7013.	6.6	460
27	Improvement on the Electrocapacitive Properties of NiO with Carbon. Chemistry Letters, 2019, 48, 90-93.	0.7	1
28	Phaseâ€Controlled Synthesis of 1Tâ€MoSe₂/NiSe Heterostructure Nanowire Arrays via Electronic Injection for Synergistically Enhanced Hydrogen Evolution. Small Methods, 2019, 3, 1800317.	4.6	67
29	When MoS2 meets FeOOH: A â€œone-stone-two-birdsâ€™â€™ heterostructure as a bifunctional electrocatalyst for efficient alkaline water splitting. Applied Catalysis B: Environmental, 2019, 244, 1004-1012.	10.8	144
30	In situ transformation of Cu2O@MnO2 to Cu@Mn(OH)2 nanosheet-on-nanowire arrays for efficient hydrogen evolution. Nano Research, 2018, 11, 1798-1809.	5.8	37
31	Self-terminated activation for high-yield production of N,P-codoped nanoporous carbon as an efficient metal-free electrocatalyst for Zn-air battery. Carbon, 2018, 128, 97-105.	5.4	69
32	From biological enzyme to single atomic Feâ€“Nâ€“C electrocatalyst for efficient oxygen reduction. Chemical Communications, 2018, 54, 1307-1310.	2.2	50
33	Kinetically Controlled Coprecipitation for General Fast Synthesis of Sandwiched Metal Hydroxide Nanosheets/Graphene Composites toward Efficient Water Splitting. Advanced Functional Materials, 2018, 28, 1704594.	7.8	91
34	Bimetal Prussian Blue as a Continuously Variable Platform for Investigating the Compositionâ€“Activity Relationship of Phosphides-Based Electrocatalysts for Water Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 35904-35910.	4.0	28
35	Self-supported metal sulphide nanocrystals-assembled nanosheets on carbon paper as efficient counter electrodes for quantum-dot-sensitized solar cells. Science China Chemistry, 2018, 61, 1338-1344.	4.2	7
36	Scalable solid-state synthesis of coralline-like nanostructured Co@CoNC electrocatalyst for Znâ€“air batteries. Chemical Communications, 2018, 54, 8190-8193.	2.2	23

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37	Polar Solvent Induced Lattice Distortion of Cubic CsPbI₃ Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. Journal of the American Chemical Society, 2018, 140, 11705-11715.	6.6	223
38	Self-template construction of nanoporous carbon nanorods from a metalâ€“organic framework for supercapacitor electrodes. RSC Advances, 2018, 8, 20655-20660.	1.7	13
39	Lamellar Metal Organic Framework-Derived Feâ€“Nâ€“C Non-Noble Electrocatalysts with Bimodal Porosity for Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2017, 9, 5272-5278.	4.0	95
40	Tuning the branches and composition of PtCu nanodendrites through underpotential deposition of Cu towards advanced electrocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 9014-9021.	5.2	55
41	Facile and Scalable Synthesis of Robust Ni(OH)₂ Nanoplate Arrays on NiAl Foil as Hierarchical Active Scaffold for Highly Efficient Overall Water Splitting. Advanced Science, 2017, 4, 1700084.	5.6	85
42	Crystallinityâ€Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni₃B for Efficient Water Oxidation. Angewandte Chemie, 2017, 129, 6672-6677.	1.6	34
43	Crystallinityâ€Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni₃B for Efficient Water Oxidation. Angewandte Chemie - International Edition, 2017, 56, 6572-6577.	7.2	271
44	Electronic and Morphological Dual Modulation of Cobalt Carbonate Hydroxides by Mn Doping toward Highly Efficient and Stable Bifunctional Electrocatalysts for Overall Water Splitting. Journal of the American Chemical Society, 2017, 139, 8320-8328.	6.6	745
45	Encased Copper Boosts the Electrocatalytic Activity of N-Doped Carbon Nanotubes for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 36857-36864.	4.0	75
46	Composition-Dependent Morphology of Bi- and Trimetallic Phosphides: Construction of Amorphous Pdâ€“Cuâ€“Niâ€“P Nanoparticles as a Selective and Versatile Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 34804-34811.	4.0	25
47	Well-Defined Metalâ€“O₆ in Metalâ€“Catecholates as a Novel Active Site for Oxygen Electroreduction. ACS Applied Materials & Interfaces, 2017, 9, 28473-28477.	4.0	63
48	Co@N-CNTs derived from triple-role CoAl-layered double hydroxide as an efficient catalyst for oxygen reduction reaction. Carbon, 2016, 107, 162-170.	5.4	60
49	MoS₂/CdS Nanosheets-on-Nanorod Heterostructure for Highly Efficient Photocatalytic H₂ Generation under Visible Light Irradiation. ACS Applied Materials & Interfaces, 2016, 8, 15258-15266.	4.0	426
50	Sodium chloride-assisted green synthesis of a 3D Feâ€“Nâ€“C hybrid as a highly active electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 7781-7787.	5.2	88
51	Rational design and electron transfer kinetics of MoS2/CdS nanodots-on-nanorods for efficient visible-light-driven hydrogen generation. Nano Energy, 2016, 28, 319-329.	8.2	140
52	Pomegranate-like N,P-Doped Mo₂C@C Nanospheres as Highly Active Electrocatalysts for Alkaline Hydrogen Evolution. ACS Nano, 2016, 10, 8851-8860.	7.3	575
53	Nitrogen, phosphorus and sulfur co-doped ultrathin carbon nanosheets as a metal-free catalyst for selective oxidation of aromatic alkanes and the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 18470-18477.	5.2	93
54	Understanding the High Activity of Feâ€“Nâ€“C Electrocatalysts in Oxygen Reduction: Fe/Fe₃C Nanoparticles Boost the Activity of Feâ€“N_x. Journal of the American Chemical Society, 2016, 138, 3570-3578.	6.6	1,549

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55	Confining Iron Carbide Nanocrystals inside CN_x@CNT toward an Efficient Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 11508-11515.	4.0	94
56	Urchin-like Au@CdS/WO₃ micro/nano heterostructure as a visible-light driven photocatalyst for efficient hydrogen generation. Chemical Communications, 2015, 51, 13842-13845.	2.2	82
57	Embedding Pt Nanocrystals in N-Doped Porous Carbon/Carbon Nanotubes toward Highly Stable Electrocatalysts for the Oxygen Reduction Reaction. ACS Catalysis, 2015, 5, 2903-2909.	5.5	221
58	Physical vapor deposition of amorphous MoS₂ nanosheet arrays on carbon cloth for highly reproducible large-area electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 19277-19281.	5.2	97
59	ITO@Cu₂S Tunnel Junction Nanowire Arrays as Efficient Counter Electrode for Quantum-Dot-Sensitized Solar Cells. Nano Letters, 2014, 14, 365-372.	4.5	118
60	In situ nitrogen-doped nanoporous carbon nanocables as an efficient metal-free catalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 10154.	5.2	73
61	Engineering self-assembled N-doped grapheneâ€“carbon nanotube composites towards efficient oxygen reduction electrocatalysts. Physical Chemistry Chemical Physics, 2014, 16, 13605-13609.	1.3	28
62	Co/CoO/CoFe₂O₄/G nanocomposites derived from layered double hydroxides towards mass production of efficient Pt-free electrocatalysts for oxygen reduction reaction. Nanoscale, 2014, 6, 203-206.	2.8	80
63	Engineering the Interfaces of ITO@Cu₂S Nanowire Arrays toward Efficient and Stable Counter Electrodes for Quantum-Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 15448-15455.	4.0	24
64	Self-deposition of Pt nanocrystals on Mn3O4 coated carbon nanotubes for enhanced oxygen reduction electrocatalysis. Journal of Materials Chemistry A, 2013, 1, 7463.	5.2	47