

# Wen-Jie Jiang

## List of Publications by Year in descending order

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64  
papers

8,638  
citations

53939

47  
h-index

116156

66  
g-index

66  
all docs

66  
docs citations

66  
times ranked

11860  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulating Pt-O-Pt atomic clusters with isolated cobalt atoms for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2022, 13, 2430.	5.8	98
2	V <sub>2</sub> O <sub>3</sub> -Decorated Spinel CoFe <sub>2</sub> O <sub>4</sub> with Carbon-Encapsulated Mesoporous Nanosheets for Efficient Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 980-986.	3.2	23
3	Ni <sub>3</sub> S <sub>2</sub> /Ni Heterostructure Nanobelt Arrays as Bifunctional Catalysts for Urea-Rich Wastewater Degradation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35709-35718.	4.0	74
4	Selective Se doping of NiFe <sub>2</sub> O <sub>4</sub> on an active NiOOH scaffold for efficient and robust water oxidation. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1395-1403.	6.9	51
5	Anchoring Sites Engineering in Single-Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. <i>Advanced Materials</i> , 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. <i>Nano Letters</i> , 2021, 21, 823-832.	4.5	91
7	Industrially Promising Nanowire Heterostructure Catalyst for Enhancing Overall Water Splitting at Large Current Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12063-12071.	3.2	38
8	Molecularly Engineered Strong Metal Oxide-Support Interaction Enables Highly Efficient and Stable CO <sub>2</sub> Electroreduction. <i>ACS Catalysis</i> , 2020, 10, 13227-13235.	5.5	94
9	Regulating the charge diffusion of two-dimensional cobalt-iron hydroxide/graphene composites for high-rate water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11573-11581.	5.2	18
10	Synergistic Modulation of Non-Precious-Metal Electrocatalysts for Advanced Water Splitting. <i>Accounts of Chemical Research</i> , 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 Zinc-Air Batteries with Record Power Density. <i>Journal of the American Chemical Society</i> , 2020, 142, 7116-7127.	6.6	147
12	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 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. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119327.	10.8	125
14	Phosphorus-doping activates carbon nanotubes for efficient electroreduction of nitrogen to ammonia. <i>Nano Research</i> , 2020, 13, 1376-1382.	5.8	61
15	Organic Small Molecule Activates Transition Metal Foam for Efficient Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e1906015.	11.1	56
16	Fe-doped Co <sub>3</sub> O <sub>4</sub> polycrystalline nanosheets as a binder-free bifunctional cathode for robust and efficient zinc-air batteries. <i>Chemical Communications</i> , 2020, 56, 5374-5377.	2.2	36
17	Self-Catalyzed Growth of Co-N-C Nanobrushes for Efficient Rechargeable Zn-Air Batteries. <i>Small</i> , 2020, 16, e2001171.	5.2	84
18	Autogenous Growth of Hierarchical NiFe(OH) <sub>x</sub> /FeS Nanosheet-On-Microsheet Arrays for Synergistically Enhanced High-Output Water Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1902180.	7.8	179

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19	Expediting in-Situ Electrochemical Activation of Two-Dimensional Metal-Organic Frameworks for Enhanced OER Intrinsic Activity by Iron Incorporation. ACS Catalysis, 2019, 9, 7356-7364.	5.5	215
20	Pore-structure-directed CO <sub>2</sub> electroreduction to formate on SnO <sub>2</sub> /C catalysts. Journal of Materials Chemistry A, 2019, 7, 18428-18433.	5.2	59
21	Boosting hydrogen evolution activity and durability of Pd-Ni-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 CoS <sub>2</sub> polycrystalline nanowires for hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 5195-5200.	5.2	78
24	NiS <sub>2</sub> nanodotted carnation-like CoS <sub>2</sub> 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-N <sub>x</sub> 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	Phase-Controlled Synthesis of 1T-MoSe <sub>2</sub> /NiSe Heterostructure Nanowire Arrays via Electronic Injection for Synergistically Enhanced Hydrogen Evolution. Small Methods, 2019, 3, 1800317.	4.6	67
29	When MoS <sub>2</sub> meets FeOOH: A "one-stone-two-birds" 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 Cu <sub>2</sub> O@MnO <sub>2</sub> to Cu@Mn(OH) <sub>2</sub> 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 Fe-N-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 Composition-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 Zn-air batteries. Chemical Communications, 2018, 54, 8190-8193.	2.2	23

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37	Polar Solvent Induced Lattice Distortion of Cubic CsPbI <sub>3</sub> Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. <i>Journal of the American Chemical Society</i> , 2018, 140, 11705-11715.	6.6	223
38	Self-template construction of nanoporous carbon nanorods from a metal-organic framework for supercapacitor electrodes. <i>RSC Advances</i> , 2018, 8, 20655-20660.	1.7	13
39	Lamellar Metal Organic Framework-Derived Fe-N-C Non-Noble Electrocatalysts with Bimodal Porosity for Efficient Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 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. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9014-9021.	5.2	55
41	Facile and Scalable Synthesis of Robust Ni(OH) <sub>2</sub> Nanoplate Arrays on NiAl Foil as Hierarchical Active Scaffold for Highly Efficient Overall Water Splitting. <i>Advanced Science</i> , 2017, 4, 1700084.	5.6	85
42	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni <sub>3</sub> B for Efficient Water Oxidation. <i>Angewandte Chemie</i> , 2017, 129, 6672-6677.	1.6	34
43	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni <sub>3</sub> B for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 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. <i>Journal of the American Chemical Society</i> , 2017, 139, 8320-8328.	6.6	745
45	Encased Copper Boosts the Electrocatalytic Activity of N-Doped Carbon Nanotubes for Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36857-36864.	4.0	75
46	Composition-Dependent Morphology of Bi- and Trimetallic Phosphides: Construction of Amorphous Pd-Cu-Ni-P Nanoparticles as a Selective and Versatile Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34804-34811.	4.0	25
47	Well-Defined Metal-O <sub>6</sub> in Metal-Catecholates as a Novel Active Site for Oxygen Electroreduction. <i>ACS Applied Materials &amp; Interfaces</i> , 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. <i>Carbon</i> , 2016, 107, 162-170.	5.4	60
49	MoS <sub>2</sub> /CdS Nanosheets-on-Nanorod Heterostructure for Highly Efficient Photocatalytic H <sub>2</sub> Generation under Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15258-15266.	4.0	426
50	Sodium chloride-assisted green synthesis of a 3D Fe-N-C hybrid as a highly active electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7781-7787.	5.2	88
51	Rational design and electron transfer kinetics of MoS <sub>2</sub> /CdS nanodots-on-nanorods for efficient visible-light-driven hydrogen generation. <i>Nano Energy</i> , 2016, 28, 319-329.	8.2	140
52	Pomegranate-like N,P-Doped Mo <sub>2</sub> C@C Nanospheres as Highly Active Electrocatalysts for Alkaline Hydrogen Evolution. <i>ACS Nano</i> , 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. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18470-18477.	5.2	93
54	Understanding the High Activity of Fe-N-C Electrocatalysts in Oxygen Reduction: Fe/Fe <sub>3</sub> C Nanoparticles Boost the Activity of Fe-N-C. <i>Journal of the American Chemical Society</i> , 2016, 138, 3570-3578.	6.6	1,549

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55	Confining Iron Carbide Nanocrystals inside CN <sub>x</sub> @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/WO <sub>3</sub> 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 MoS <sub>2</sub> 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@Cu <sub>2</sub> S 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 graphene-carbon nanotube composites towards efficient oxygen reduction electrocatalysts. Physical Chemistry Chemical Physics, 2014, 16, 13605-13609.	1.3	28
62	Co/CoO/CoFe <sub>2</sub> O <sub>4</sub> /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@Cu <sub>2</sub> S 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 Mn <sub>3</sub> O <sub>4</sub> coated carbon nanotubes for enhanced oxygen reduction electrocatalysis. Journal of Materials Chemistry A, 2013, 1, 7463.	5.2	47