

# Junming Zhang

## 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.

30  
papers

1,368  
citations

20  
h-index

30  
g-index

30  
ext. papers

1,938  
ext. citations

10.7  
avg, IF

4.91  
L-index

#	Paper	IF	Citations
30	Strong Metal-Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of HO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	10
29	Towards the Rational Design of Stable Electrocatalysts for Green Hydrogen Production. <i>Catalysts</i> , <b>2022</b> , 12, 204	4	0
28	Orbital coupling of hetero-diatomic nickel-iron site for bifunctional electrocatalysis of CO reduction and oxygen evolution. <i>Nature Communications</i> , <b>2021</b> , 12, 4088	17.4	51
27	Engineering the Near-Surface of PtRu Nanoparticles to Improve Hydrogen Oxidation Activity in Alkaline Electrolyte. <i>Small</i> , <b>2021</b> , 17, e2006698	11	12
26	Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. <i>Nano Letters</i> , <b>2021</b> , 21, 7753-7760	11.5	4
25	Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates. <i>ACS Nano</i> , <b>2020</b> ,	16.7	19
24	Amorphous Multimetal Alloy Oxygen Evolving Catalysts <b>2020</b> , 2, 624-632		25
23	Advances in Thermodynamic-Kinetic Model for Analyzing the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8597-8610	13.1	40
22	Design of hierarchical, three-dimensional free-standing single-atom electrode for H <sub>2</sub> O <sub>2</sub> production in acidic media <b>2020</b> , 2, 276-282		20
21	Self-Template Synthesis of Atomically Dispersed Fe/N-Codoped Nanocarbon as Efficient Bifunctional Alkaline Oxygen Electrocatalyst. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 625-634	6.1	8
20	Amorphous/Crystalline Heterostructured Cobalt-Vanadium-Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002215	21.8	73
19	Random alloy and intermetallic nanocatalysts in fuel cell reactions. <i>Nanoscale</i> , <b>2020</b> , 12, 19557-19581	7.7	16
18	A General Method to Probe Oxygen Evolution Intermediates at Operating Conditions. <i>Joule</i> , <b>2019</b> , 3, 1498-1509	27.8	115
17	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. <i>Nano Energy</i> , <b>2019</b> , 60, 661-666	17.1	40
16	In Situ/Operando Techniques for Characterization of Single-Atom Catalysts. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2521-2531	13.5	173
15	Self-assembly of three-dimensional CdS nanosphere/graphene networks for efficient photocatalytic hydrogen evolution. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 31, 34-38	12	20
14	Revealing Energetics of Surface Oxygen Redox from Kinetic Fingerprint in Oxygen Electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13803-13811	16.4	87

13	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 746-750	3.6	45
12	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 736-740	16.4	188
11	Boosting oxygen reaction activity by coupling sulfides for high-performance rechargeable metal-air battery. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21162-21166	13	26
10	Fabricating 3D Macroscopic Graphene-Based Architectures with Outstanding Flexibility by the Novel Liquid Drop/Colloid Flocculation Approach for Energy Storage Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21991-22001	9.5	11
9	Engineering Ultrathin Co(OH) <sub>2</sub> Nanosheets on Dandelion-like CuCo <sub>2</sub> O <sub>4</sub> Microspheres for Binder-Free Supercapacitors. <i>ChemElectroChem</i> , <b>2017</b> , 4, 721-727	4.3	57
8	High Intercalation Pseudocapacitance of Free-Standing T-Nb <sub>2</sub> O <sub>5</sub> Nanowires@carbon Cloth Hybrid Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A820-A825	3.9	35
7	Carbon cloth@T-Nb <sub>2</sub> O <sub>5</sub> @MnO <sub>2</sub> : A rational exploration of manganese oxide for high performance supercapacitor. <i>Electrochimica Acta</i> , <b>2017</b> , 253, 311-318	6.7	32
6	Growth of NiMn LDH nanosheet arrays on KCu <sub>7</sub> S <sub>4</sub> microwires for hybrid supercapacitors with enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20579-20587	13	82
5	Construction of hierarchical NiMoO <sub>4</sub> @MnO <sub>2</sub> nanosheet arrays on titanium mesh for supercapacitor electrodes. <i>Ceramics International</i> , <b>2016</b> , 42, 18058-18063	5.1	25
4	Facile synthesis of carbon sphere@Ni(OH) <sub>2</sub> and derivatives for high-performance supercapacitors. <i>Functional Materials Letters</i> , <b>2016</b> , 09, 1642002	1.2	27
3	One-pot synthesis of vanadium dioxide nanoflowers on graphene oxide. <i>Ceramics International</i> , <b>2016</b> , 42, 7883-7887	5.1	27
2	Facile preparation and sulfidation analysis for activated multiporous carbon@NiCo <sub>2</sub> S <sub>4</sub> nanostructure with enhanced supercapacitive properties. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 627-635	6.7	62
1	Rational synthesis of hybrid NiCo <sub>2</sub> S <sub>4</sub> @MnO <sub>2</sub> heterostructures for supercapacitor electrodes. <i>Ceramics International</i> , <b>2016</b> , 42, 8909-8914	5.1	38