

# Wenjie Zang

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

4,158  
citations

159585

30  
h-index

265206

42  
g-index

42  
all docs

42  
docs citations

42  
times ranked

4948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. <i>Nano Energy</i> , 2018, 48, 73-80.	16.0	608
2	Single Co Atoms Anchored in Porous N-Doped Carbon for Efficient Zinc-Air Battery Cathodes. <i>ACS Catalysis</i> , 2018, 8, 8961-8969.	11.2	364
3	Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. <i>ACS Catalysis</i> , 2019, 9, 10166-10173.	11.2	284
4	Decorating Co/CoN <sub>x</sub> nanoparticles in nitrogen-doped carbon nanoarrays for flexible and rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2019, 16, 243-250.	18.0	244
5	Efficient Hydrogen Evolution of Oxidized Ni <sub>3</sub> Defective Sites for Alkaline Freshwater and Seawater Electrolysis. <i>Advanced Materials</i> , 2021, 33, e2003846.	21.0	198
6	Integrated Hierarchical Carbon Flake Arrays with Hollow N-Doped CoSe <sub>2</sub> Nanoclusters as an Advanced Bifunctional Catalyst for Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804846.	14.9	192
7	Synergizing Mo Single Atoms and Mo <sub>2</sub> C Nanoparticles on CNTs Synchronizes Selectivity and Activity of Electrocatalytic N <sub>2</sub> Reduction to Ammonia. <i>Advanced Materials</i> , 2020, 32, e2002177.	21.0	190
8	Ni-Doped Cobalt-Cobalt Nitride Heterostructure Arrays for High-Power Supercapacitors. <i>ACS Energy Letters</i> , 2018, 3, 2462-2469.	17.4	182
9	Nanoframes of Co <sub>3</sub> O <sub>4</sub> -Mo <sub>2</sub> N Heterointerfaces Enable High-Performance Bifunctionality toward Both Electrocatalytic HER and OER. <i>Advanced Functional Materials</i> , 2022, 32, 2107382.	14.9	153
10	Size-Dependent Activity and Selectivity of Atomic-Level Copper Nanoclusters during CO/CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 466-472.	13.8	130
11	Synergizing in-grown Ni <sub>3</sub> N/Ni heterostructured core and ultrathin Ni <sub>3</sub> N surface shell enables self-adaptive surface reconfiguration and efficient oxygen evolution reaction. <i>Nano Energy</i> , 2020, 78, 105355.	16.0	126
12	Conformal dispersed cobalt nanoparticles in hollow carbon nanotube arrays for flexible Zn-air and Al-air batteries. <i>Chemical Engineering Journal</i> , 2019, 369, 988-995.	12.7	121
13	Porous NiCo <sub>2</sub> S <sub>4</sub> /FeOOH nanowire arrays with rich sulfide/hydroxide interfaces enable high OER activity. <i>Nano Energy</i> , 2020, 78, 105230.	16.0	121
14	2D carbide nanomeshes and their assembling into 3D microflowers for efficient water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 678-685.	20.2	116
15	Heterogeneous Single Atom Electrocatalysis, Where "Singles" Are "Married". <i>Advanced Energy Materials</i> , 2020, 10, 1903181.	19.5	113
16	Engineering the Coordination Environment of Single Cobalt Atoms for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. <i>ACS Catalysis</i> , 2021, 11, 4498-4509.	11.2	94
17	Cage-confinement pyrolysis route to size-controlled molybdenum-based oxygen electrode catalysts: From isolated atoms to clusters and nanoparticles. <i>Nano Energy</i> , 2020, 67, 104288.	16.0	93
18	Dynamic Surface Chemistry of Catalysts in Oxygen Evolution Reaction. <i>Small Science</i> , 2021, 1, 2100011.	9.9	59

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19	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. <i>Small</i> , 2019, 15, e1900248.	10.0	57
20	Flexible and Wearable All-Solid-State Al <sup>3+</sup> Air Battery Based on Iron Carbide Encapsulated in Electrospun Porous Carbon Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1988-1995.	8.0	56
21	PtCo bimetallic nanoparticles encapsulated in N-doped carbon nanorod arrays for efficient electrocatalysis. <i>Carbon</i> , 2019, 142, 206-216.	10.3	56
22	Strong Charge Transfer at 2H <sup>+</sup> 1T Phase Boundary of MoS <sub>2</sub> for Superb High-Performance Energy Storage. <i>Small</i> , 2019, 15, e1900131.	10.0	53
23	Assembling of Bi atoms on TiO <sub>2</sub> nanorods boosts photoelectrochemical water splitting of semiconductors. <i>Nanoscale</i> , 2020, 12, 4302-4308.	5.6	49
24	A sacrificial Zn strategy enables anchoring of metal single atoms on the exposed surface of holey 2D molybdenum carbide nanosheets for efficient electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3071-3082.	10.3	48
25	All-solid-state sponge-like squeezable zinc-air battery. <i>Energy Storage Materials</i> , 2019, 23, 375-382.	18.0	47
26	Mechanical properties and thermal conductivity of a temperature resistance hollow glass microspheres/borosilicate glass buoyance material. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 604-614.	5.6	44
27	Single atom catalysts: a surface heterocompound perspective. <i>Nanoscale Horizons</i> , 2020, 5, 757-764.	8.0	39
28	Lightweight alumina based fibrous ceramics with different high temperature binder. <i>Ceramics International</i> , 2016, 42, 10310-10316.	4.8	38
29	Hollow structure engineering of FeCo alloy nanoparticles electrospun in nitrogen-doped carbon enables high performance flexible all-solid-state zinc-air batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1747-1753.	4.9	36
30	Trimetal atoms confined in openly accessible nitrogen-doped carbon constructs for an efficient ORR. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17266-17275.	10.3	32
31	Quasi-Paired Pt Atomic Sites on Mo <sub>2</sub> C Promoting Selective Four-Electron Oxygen Reduction. <i>Advanced Science</i> , 2021, 8, e2101344.	11.2	29
32	Preparation of homogeneous mullite-based fibrous ceramics by starch consolidation. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3138-3147.	3.8	27
33	Preparation of homogeneous mullite fibrous porous ceramics consolidated by propylene oxide. <i>Ceramics International</i> , 2019, 45, 2474-2482.	4.8	24
34	Boosted electrochemical ammonia synthesis by high-percentage metallic transition metal dichalcogenide quantum dots. <i>Nanoscale</i> , 2020, 12, 10964-10971.	5.6	24
35	In-situ formation of isolated iron sites coordinated on nitrogen-doped carbon coated carbon cloth as self-supporting electrode for flexible aluminum-air battery. <i>Chemical Engineering Journal</i> , 2021, 421, 129973.	12.7	21
36	Surface engineered alumina microfiltration membranes based on rationally constructed core-shell particles. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5951-5958.	5.7	20

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37	Fundamentals, On-Going Advances and Challenges of Electrochemical Carbon Dioxide Reduction. <i>Electrochemical Energy Reviews</i> , 2022, 5, 82-111.	25.5	17
38	Phospho-oxynitride Layer Protected Cobalt Phosphonitride Nanowire Arrays for High-Rate and Stable Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 616-626.	5.1	16
39	Size-Dependent Activity and Selectivity of Atomic-Level Copper Nanoclusters during CO/CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie</i> , 2021, 133, 470-476.	2.0	16
40	Single Atom Electrocatalysis: Heterogeneous Single Atom Electrocatalysis, Where "Singles" Are "Married". ( <i>Adv. Energy Mater.</i> 9/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070037.	19.5	5
41	Designing Energy Materials via Atomic-resolution Microscopy and Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1998-1999.	0.4	1