

# Tao Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,402  
citations

471509

17  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal phthalocyanines as efficient electrocatalysts for acetylene semihydrogenation. <i>Chemical Engineering Journal</i> , 2022, 431, 134129.	12.7	14
2	Identification of Copper as an Ideal Catalyst for Electrochemical Alkyne Semi-hydrogenation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3037-3042.	3.1	10
3	Machine Learning-Assisted Screening of Stepped Alloy Surfaces for C <sub>1</sub> Catalysis. <i>ACS Catalysis</i> , 2022, 12, 4252-4260.	11.2	20
4	Activating copper oxide for stable electrocatalytic ammonia oxidation reaction via in-situ introducing oxygen vacancies. <i>Nano Research</i> , 2022, 15, 5987-5994.	10.4	26
5	Progress of Experimental and Computational Catalyst Design for Electrochemical Nitrogen Fixation. <i>ACS Catalysis</i> , 2022, 12, 8936-8975.	11.2	41
6	Stable CO/H <sub>2</sub> ratio on MoP surfaces under working condition: A DFT based thermodynamics study. <i>Surface Science</i> , 2021, 703, 121738.	1.9	0
7	Identifying factors controlling the selective ethane dehydrogenation on Pt-based catalysts from DFT based micro-kinetic modeling. <i>Journal of Energy Chemistry</i> , 2021, 58, 37-40.	12.9	8
8	Identification of earth-abundant materials for selective dehydrogenation of light alkanes to olefins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
9	Theory-Aided Discovery of Metallic Catalysts for Selective Propane Dehydrogenation to Propylene. <i>ACS Catalysis</i> , 2021, 11, 6290-6297.	11.2	21
10	Achieving industrial ammonia synthesis rates at near-ambient conditions through modified scaling relations on a confined dual site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	34
11	Selective electrocatalytic semihydrogenation of acetylene impurities for the production of polymer-grade ethylene. <i>Nature Catalysis</i> , 2021, 4, 557-564.	34.4	90
12	Identification of active catalysts for the acceptorless dehydrogenation of alcohols to carbonyls. <i>Nature Communications</i> , 2021, 12, 5100.	12.8	21
13	Efficient electrocatalytic acetylene semihydrogenation by electron-rich metal sites in N-heterocyclic carbene metal complexes. <i>Nature Communications</i> , 2021, 12, 6574.	12.8	30
14	Discovery of main group single Sb <sup>N<sub>4</sub></sup> active sites for CO <sub>2</sub> electroreduction to formate with high efficiency. <i>Energy and Environmental Science</i> , 2020, 13, 2856-2863.	30.8	245
15	Promoted oxygen reduction kinetics on nitrogen-doped hierarchically porous carbon by engineering proton-feeding centers. <i>Energy and Environmental Science</i> , 2020, 13, 2849-2855.	30.8	101
16	Single-Crystalline Mo-Nanowire-Mediated Directional Growth of High-Index-Faceted MoNi Electrocatalyst for Ultralong-Term Alkaline Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36259-36267.	8.0	18
17	Formic Acid as a Bio-CO Carrier: Selective Dehydration with <sup>13</sup> Mo <sub>2</sub> N Catalysts at Low Temperatures. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13956-13963.	6.7	7
18	Acceptorless dehydrogenation and hydrogenation of N- and O-containing compounds on Pd <sub>3</sub> Au <sub>1</sub> (111) facets. <i>Science Advances</i> , 2020, 6, .	10.3	31

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19	Rational design of selective metal catalysts for alcohol amination with ammonia. <i>Nature Catalysis</i> , 2019, 2, 773-779.	34.4	70
20	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 16569-16573.	13.7	501
21	Active catalyst construction for CO <sub>2</sub> recycling via catalytic synthesis of N-doped carbon on supported Cu. <i>Nature Communications</i> , 2019, 10, 2599.	12.8	23
22	Promoting defective-Li <sub>2</sub> O <sub>2</sub> formation <i>via</i> Na doping for Li-O <sub>2</sub> batteries with low charge overpotentials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10389-10396.	10.3	17
23	Coverage dependent CO adsorption manners on seven MoP surfaces with DFT based thermodynamics method. <i>Applied Surface Science</i> , 2019, 480, 172-176.	6.1	9
24	Morphology of MoP catalyst under hydrogenation conditions: A DFT based thermodynamics study. <i>Molecular Catalysis</i> , 2019, 464, 57-62.	2.0	10
25	Direct <i>n</i> -octanol amination by ammonia on supported Ni and Pd catalysts: activity is enhanced by $\pi$ -spectator-ammonia adsorbates. <i>Catalysis Science and Technology</i> , 2018, 8, 611-621.	4.1	26
26	Trends and Control in the Nitridation of Transition-Metal Surfaces. <i>ACS Catalysis</i> , 2018, 8, 63-68.	11.2	19