

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	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 16569-16573.	13.7	501
2	Discovery of main group single Sb ^{N₄} active sites for CO ₂ electroreduction to formate with high efficiency. <i>Energy and Environmental Science</i> , 2020, 13, 2856-2863.	30.8	245
3	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
4	Selective electrocatalytic semihydrogenation of acetylene impurities for the production of polymer-grade ethylene. <i>Nature Catalysis</i> , 2021, 4, 557-564.	34.4	90
5	Rational design of selective metal catalysts for alcohol amination with ammonia. <i>Nature Catalysis</i> , 2019, 2, 773-779.	34.4	70
6	Progress of Experimental and Computational Catalyst Design for Electrochemical Nitrogen Fixation. <i>ACS Catalysis</i> , 2022, 12, 8936-8975.	11.2	41
7	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
8	Acceptorless dehydrogenation and hydrogenation of N- and O-containing compounds on Pd ₃ Au ₁ (111) facets. <i>Science Advances</i> , 2020, 6, .	10.3	31
9	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
10	Direct <i>n</i> -octanol amination by ammonia on supported Ni and Pd catalysts: activity is enhanced by a spectator-ammonia adsorbates. <i>Catalysis Science and Technology</i> , 2018, 8, 611-621.	4.1	26
11	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
12	Active catalyst construction for CO ₂ recycling via catalytic synthesis of N-doped carbon on supported Cu. <i>Nature Communications</i> , 2019, 10, 2599.	12.8	23
13	Theory-Aided Discovery of Metallic Catalysts for Selective Propane Dehydrogenation to Propylene. <i>ACS Catalysis</i> , 2021, 11, 6290-6297.	11.2	21
14	Identification of active catalysts for the acceptorless dehydrogenation of alcohols to carbonyls. <i>Nature Communications</i> , 2021, 12, 5100.	12.8	21
15	Machine Learning-Assisted Screening of Stepped Alloy Surfaces for C ₁ Catalysis. <i>ACS Catalysis</i> , 2022, 12, 4252-4260.	11.2	20
16	Trends and Control in the Nitridation of Transition-Metal Surfaces. <i>ACS Catalysis</i> , 2018, 8, 63-68.	11.2	19
17	Single-Crystalline Mo-Nanowire-Mediated Directional Growth of High-Index-Faceted MoNi Electrocatalyst for Ultralong-Term Alkaline Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36259-36267.	8.0	18
18	Promoting defective-Li ₂ O ₂ formation via Na doping for Li-O ₂ batteries with low charge overpotentials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10389-10396.	10.3	17

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19	Metal phthalocyanines as efficient electrocatalysts for acetylene semihydrogenation. <i>Chemical Engineering Journal</i> , 2022, 431, 134129.	12.7	14
20	Morphology of MoP catalyst under hydrogenation conditions: A DFT based thermodynamics study. <i>Molecular Catalysis</i> , 2019, 464, 57-62.	2.0	10
21	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
22	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
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	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
25	Formic Acid as a Bio-CO Carrier: Selective Dehydration with \hat{I}^3 -Mo ₂ N Catalysts at Low Temperatures. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13956-13963.	6.7	7
26	Stable CO/H ₂ ratio on MoP surfaces under working condition: A DFT based thermodynamics study. <i>Surface Science</i> , 2021, 703, 121738.	1.9	0