Haozhi Wang

List of Publications by Year
in descending order

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20 papers	1,681 citations	567281 15 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	2005 citing authors

#	Article	IF	Citations
1	A short review of recent advances in CO₂hydrogenation to hydrocarbons over heterogeneous catalysts. RSC Advances, 2018, 8, 7651-7669.	3.6	499
2	Selective electroreduction of CO2 to acetone by single copper atoms anchored on N-doped porous carbon. Nature Communications, 2020, 11, 2455.	12.8	265
3	Mechanistic Understanding of Alloy Effect and Water Promotion for Pd-Cu Bimetallic Catalysts in CO₂ Hydrogenation to Methanol. ACS Catalysis, 2018, 8, 4873-4892.	11.2	171
4	Enhanced heterogeneous activation of peroxymonosulfate by Co and N codoped porous carbon for degradation of organic pollutants: the synergism between Co and N. Environmental Science: Nano, 2019, 6, 399-410.	4.3	129
5	Mechanistic Insight into Câ€“C Coupling over Feâ€“Cu Bimetallic Catalysts in CO₂ Hydrogenation. Journal of Physical Chemistry C, 2017, 121, 13164-13174.	3.1	91
6	Boosting Energy Efficiency and Stability of Liâ€“CO₂ Batteries via Synergy between Ru Atom Clusters and Singleâ€Atom Ruâ€“N₄ sites in the Electrocatalyst Cathode. Advanced Materials, 2022, 34, e2200559.	21.0	83
7	Origin of Pd-Cu bimetallic effect for synergetic promotion of methanol formation from CO2 hydrogenation. Journal of Catalysis, 2019, 369, 21-32.	6.2	80
8	Phase Transfer of Mo₂C Induced by Boron Doping to Boost Nitrogen Reduction Reaction Catalytic Activity. Advanced Functional Materials, 2022, 32, .	14.9	51
9	Computational Investigation of Feâ€“Cu Bimetallic Catalysts for CO₂ Hydrogenation. Journal of Physical Chemistry C, 2016, 120, 9364-9373.	3.1	49
10	DFT insight into the effect of potassium on the adsorption, activation and dissociation of CO₂ over Fe-based catalysts. Physical Chemistry Chemical Physics, 2018, 20, 14694-14707.	2.8	40
11	A computational study of adsorption and activation of CO 2 and H 2 over Fe(1 0 0) surface. Journal of CO2 Utilization, 2016, 15, 107-114.	6.8	38
12	Facet effect on CO2 adsorption, dissociation and hydrogenation over Fe catalysts: Insight from DFT. Journal of CO2 Utilization, 2018, 26, 160-170.	6.8	35
13	Cobalt sulfides constructed heterogeneous interfaces decorated on N,S-codoped carbon nanosheets as a highly efficient bifunctional oxygen electrocatalyst. Journal of Materials Chemistry A, 2021, 9, 13926-13935.	10.3	27
14	Designing Nanoporous Coralâ€Like Pt Nanowires Architecture for Methanol and Ammonia Oxidation Reactions. Advanced Functional Materials, 2022, 32, .	14.9	27
15	Accelerated exciton dissociation and electron extraction across the metallic sulfideâ€“carbon nitride ohmic interface for efficient photocatalytic hydrogen production. Journal of Materials Chemistry A, 2021, 9, 16522-16531.	10.3	24
16	Comparative computational study of CO2 dissociation and hydrogenation over Fe-M (M = Pd, Ni, Co) bimetallic catalysts: The effect of surface metal content. Journal of CO2 Utilization, 2019, 29, 179-195.	6.8	17
17	Mechanistic understanding of ethane dehydrogenation and aromatization over Zn/ZSM-5: effects of Zn modification and CO₂ co-reactant. Catalysis Science and Technology, 2020, 10, 8359-8373.	4.1	17
18	Band and optical properties of arsenene and antimonene lateral heterostructure by first-principles calculations. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114933.	2.7	17

#	Article	IF	Citations
19	Ni-Doped Mo₂C Anchored on Graphitized Porous Carbon for Boosting Electrocatalytic N₂ Reduction. ACS Applied Materials & Interfaces, 2022, 14, 17273-17281.	8.0	12
20	Strainâ€Dependent Band Structures and Electronic Properties in Sb/Bi Lateral Heterostructures Calculated by First Principles. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100148.	2.4	9