Zhongzhe Wei

List of Publications by Year
in descending order

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49 papers	4,978 citations	147566 31 h-index	197535 49 g-index
49 all docs	49 docs citations	49 times ranked	7338 citing authors

#	Article	IF	Citations
1	In situ Cobaltâ€“Cobalt Oxide/N-Doped Carbon Hybrids As Superior Bifunctional Electrocatalysts for Hydrogen and Oxygen Evolution. Journal of the American Chemical Society, 2015, 137, 2688-2694.	6.6	1,642
2	Highly uniform Ru nanoparticles over N-doped carbon: pH and temperature-universal hydrogen release from water reduction. Energy and Environmental Science, 2018, 11, 800-806.	15.6	407
3	In Situ-Generated Co⁰-Co₃O₄/N-Doped Carbon Nanotubes Hybrids as Efficient and Chemoselective Catalysts for Hydrogenation of Nitroarenes. ACS Catalysis, 2015, 5, 4783-4789.	5.5	363
4	Dominating Role of Ni⁰ on the Interface of Ni/NiO for Enhanced Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 7139-7147.	4.0	206
5	Cobalt Encapsulated in N-Doped Graphene Layers: An Efficient and Stable Catalyst for Hydrogenation of Quinoline Compounds. ACS Catalysis, 2016, 6, 5816-5822.	5.5	185
6	Heteroatomâ€Doping of Nonâ€Noble Metalâ€Based Catalysts for Electrocatalytic Hydrogen Evolution: An Electronic Structure Tuning Strategy. Small Methods, 2021, 5, e2000988.	4.6	165
7	Oxygen vacancies on TiO₂ promoted the activity and stability of supported Pd nanoparticles for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 2264-2272.	5.2	163
8	RuPd Alloy Nanoparticles Supported on N-Doped Carbon as an Efficient and Stable Catalyst for Benzoic Acid Hydrogenation. ACS Catalysis, 2015, 5, 3100-3107.	5.5	136
9	Biomass Valorization via Paired Electrosynthesis Over Vanadium Nitrideâ€Based Electrocatalysts. Advanced Functional Materials, 2019, 29, 1904780.	7.8	120
10	Mo2TiC2 MXene: A Promising Catalyst for Electrocatalytic Ammonia Synthesis. Catalysis Today, 2020, 339, 120-126.	2.2	102
11	Updating Biomass into Functional Carbon Material in Ionothermal Manner. ACS Applied Materials & Interfaces, 2014, 6, 12515-12522.	4.0	98
12	An Efficient Way To Introduce Hierarchical Structure into Biomass-Based Hydrothermal Carbonaceous Materials. ACS Sustainable Chemistry and Engineering, 2014, 2, 2435-2441.	3.2	94
13	Combination of Carbon Nitride and Carbon Nanotubes: Synergistic Catalysts for Energy Conversion. ChemSusChem, 2014, 7, 2303-2309.	3.6	84
14	Single and double boron atoms doped nanoporous C₂Nâ€“h2D electrocatalysts for highly efficient N₂ reduction reaction: a density functional theory study. Nanotechnology, 2019, 30, 335403.	1.3	81
15	Design and Fabrication of Hierarchically Porous Carbon with a Template-free Method. Scientific Reports, 2014, 4, 6349.	1.6	77
16	A theoretical study of electrocatalytic ammonia synthesis on single metal atom/MXene. Chinese Journal of Catalysis, 2019, 40, 152-159.	6.9	76
17	Highly efficient and chemoselective hydrogenation of Î±,Î²-unsaturated carbonyls over Pd/N-doped hierarchically porous carbon. Catalysis Science and Technology, 2015, 5, 397-404.	2.1	73
18	Recent advances in heterogeneous catalytic hydrogenation and dehydrogenation of N-heterocycles. Chinese Journal of Catalysis, 2019, 40, 980-1002.	6.9	68

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19	Functionalization Ti3C2 MXene by the adsorption or substitution of single metal atom. Applied Surface Science, 2019, 465, 911-918.	3.1	63
20	Ni-promoted synthesis of graphitic carbon nanotubes from in situ produced graphitic carbon for dehydrogenation of ethylbenzene. Chemical Communications, 2015, 51, 12859-12862.	2.2	56
21	The synergic effects at the molecular level in CoS₂ for selective hydrogenation of nitroarenes. Green Chemistry, 2018, 20, 671-679.	4.6	54
22	High-Throughput Screening of Hydrogen Evolution Reaction Catalysts in MXene Materials. Journal of Physical Chemistry C, 2020, 124, 13695-13705.	1.5	51
23	Optimizing Alkyne Hydrogenation Performance of Pd on Carbon in Situ Decorated with Oxygen-Deficient TiO₂ by Integrating the Reaction and Diffusion. ACS Catalysis, 2019, 9, 10656-10667.	5.5	50
24	Improved catalytic activity and stability for hydrogenation of levulinic acid by Ru/N-doped hierarchically porous carbon. Molecular Catalysis, 2018, 448, 100-107.	1.0	49
25	Efficient synthesis of ultrafine Pd nanoparticles on an activated N-doping carbon for the decomposition of formic acid. Catalysis Communications, 2018, 108, 55-58.	1.6	48
26	Ultrafinely dispersed Pd nanoparticles on a CN@MgO hybrid as a bifunctional catalyst for upgrading bioderived compounds. Green Chemistry, 2014, 16, 4371-4377.	4.6	45
27	CoO_xâ€“carbon nanotubes hybrids integrated on carbon cloth as a new generation of 3D porous hydrogen evolution promoters. Journal of Materials Chemistry A, 2017, 5, 10510-10516.	5.2	45
28	Simultaneous electrochemical ozone production and hydrogen evolution by using tantalum-based nanorods electrocatalysts. Applied Catalysis B: Environmental, 2020, 266, 118632.	10.8	42
29	Hydrothermal synthesis of manganese oxide encapsulated multiporous carbon nanofibers for supercapacitors. Nano Research, 2016, 9, 2672-2680.	5.8	41
30	Hydrogen peroxide electrochemical synthesis on hybrid double-atom (Pdâ€“Cu) doped N vacancy g-C₃N₄: a novel design strategy for electrocatalyst screening. Journal of Materials Chemistry A, 2020, 8, 2672-2683.	5.2	40
31	Chemoselective hydrogenation of phenol to cyclohexanol using heterogenized cobalt oxide catalysts. Chinese Chemical Letters, 2018, 29, 815-818.	4.8	37
32	Oxygen-deficient TiO₂ and carbon coupling synergistically boost the activity of Ru nanoparticles for the alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 10160-10168.	5.2	28
33	Palladium Dimer Supported on Mo₂CO₂(MXene) for Direct Methane to Methanol Conversion. Advanced Theory and Simulations, 2019, 2, 1800158.	1.3	22
34	Building highly active hybrid doubleâ€“atom sites in C2N for enhanced electrocatalytic hydrogen peroxide synthesis. Green Energy and Environment, 2021, 6, 846-857.	4.7	22
35	Reactivity and mechanism investigation of selective hydrogenation of 2,3,5-trimethylbenzoquinone on in situ generated metallic cobalt. Catalysis Science and Technology, 2016, 6, 4503-4510.	2.1	18
36	Hydrogen peroxide synthesis on porous graphitic carbon nitride using water as a hydrogen source. Journal of Materials Chemistry A, 2020, 8, 124-137.	5.2	18

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37	Geometric and electronic effects on the performance of a bifunctional Ru2P catalyst in the hydrogenation and acceptorless dehydrogenation of N-heteroarenes. Chinese Journal of Catalysis, 2021, 42, 1185-1194.	6.9	14
38	Multiscale Simulation on Product Distribution from Pyrolysis of Styrene-Butadiene Rubber. Polymers, 2019, 11, 1967.	2.0	13
39	Engineering the geometric and electronic structure of Ru via Ruâ€“TiO₂ interaction for enhanced selective hydrogenation. Catalysis Science and Technology, 2022, 12, 1005-1016.	2.1	12
40	Micromechanical simulation of the pore size effect on the structural stability of brittle porous materials with bicontinuous morphology. Physical Chemistry Chemical Physics, 2019, 21, 12895-12904.	1.3	10
41	2D-3D transformation of palladium and gold nanoparticles on functionalized Mo2C by multiscale simulation. Applied Surface Science, 2019, 481, 554-563.	3.1	10
42	A first-principles study of reaction mechanism over carbon decorated oxygen-deficient TiO2 supported Pd catalyst in direct synthesis of H2O2. Chinese Journal of Chemical Engineering, 2021, 31, 126-134.	1.7	10
43	Enhanced Oxygen Reduction Activity on Carbon Supported Pd Nanoparticles Via SiO₂. ChemCatChem, 2019, 11, 1278-1285.	1.8	9
44	Computational screening of O-functional MXenes for electrocatalytic ammonia synthesis. Chinese Journal of Catalysis, 2022, 43, 1860-1869.	6.9	9
45	Multiscale Simulation of Morphology Evolution of Supported Pt Nanoparticles via Interfacial Control. Langmuir, 2019, 35, 6393-6402.	1.6	8
46	Ru Cluster-Decorated Cu Nanoparticles Enhanced Selectivity to Imine from One-Pot Cascade Transformations. Industrial & Engineering Chemistry Research, 2022, 61, 3474-3482.	1.8	6
47	Multiscale simulation on thermal stability of supported metal nanocatalysts. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2019, 9, e1405.	6.2	3
48	Thermal Puffing Promoting the Synthesis of N-Doped Hierarchical Porous Carbonâ€“CoO_x Composites for Alkaline Water Reduction. ACS Omega, 2021, 6, 6474-6481.	1.6	3
49	High-efficiency visible-light photocatalytic H₂O₂ production using CdSe-based core/shell quantum dots. Catalysis Science and Technology, 2022, 12, 2865-2871.	2.1	2