Xiaodong Wang

List of Publications by Year
in descending order

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31 papers	1,174 citations	430874 18 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	1486 citing authors

#	Article	IF	Citations
1	Cofactor NAD(P)H Regeneration Inspired by Heterogeneous Pathways. CheM, 2017, 2, 621-654.	11.7	287
2	Heterogeneous Catalysis Mediated Cofactor NADH Regeneration for Enzymatic Reduction. ACS Catalysis, 2016, 6, 1880-1886.	11.2	99
3	Pt/Sn Intermetallic, Core/Shell and Alloy Nanoparticles: Colloidal Synthesis and Structural Control. Chemistry of Materials, 2013, 25, 1400-1407.	6.7	88
4	Enhanced selective nitroarene hydrogenation over Au supported on Î²-Mo2C and Î²-Mo2C/Al2O3. Journal of Catalysis, 2012, 286, 172-183.	6.2	60
5	Colloidal Synthesis and Structural Control of PtSn Bimetallic Nanoparticles. Langmuir, 2011, 27, 11052-11061.	3.5	55
6	Coordination between Electron Transfer and Molecule Diffusion through a Bioinspired Amorphous Titania Nanoshell for Photocatalytic Nicotinamide Cofactor Regeneration. ACS Catalysis, 2019, 9, 11492-11501.	11.2	49
7	Unraveling and Manipulating of NADH Oxidation by Photogenerated Holes. ACS Catalysis, 2020, 10, 4967-4972.	11.2	48
8	Constructing Quantum Dots@Flake Graphitic Carbon Nitride Isotype Heterojunctions for Enhanced Visible-Light-Driven NADH Regeneration and Enzymatic Hydrogenation. Industrial & Engineering Chemistry Research, 2017, 56, 6247-6255.	3.7	45
9	A facile analytical method for reliable selectivity examination in cofactor NADH regeneration. Chemical Communications, 2020, 56, 1231-1234.	4.1	44
10	Reducible Support Effects in the Gas Phase Hydrogenation of p-Chloronitrobenzene over Gold. Journal of Physical Chemistry C, 2013, 117, 994-1005.	3.1	40
11	The role of hydrogen partial pressure in the gas phase hydrogenation of p-chloronitrobenzene over alumina supported Au and Pd: A consideration of reaction thermodynamics and kinetics. Chemical Engineering Journal, 2012, 210, 103-113.	12.7	35
12	Constructing magnetic Siâ€“Câ€“Fe hybrid microspheres for room temperature nitroarenes reduction. Journal of Materials Chemistry A, 2017, 5, 10986-10997.	10.3	35
13	NADH Regeneration: A Case Study of Pt-Catalyzed NAD⁺ Reduction with H₂. ACS Catalysis, 2021, 11, 283-289.	11.2	34
14	Gas phase hydrogenation of nitrocyclohexane over supported gold catalysts. Applied Catalysis A: General, 2013, 467, 575-584.	4.3	32
15	Selective hydrogenation of bromonitrobenzenes over Pt/Î³-Fe2O3. Journal of Molecular Catalysis A, 2007, 273, 160-168.	4.8	27
16	Improving Photocatalytic Energy Conversion via NAD(P)H. Joule, 2020, 4, 2055-2059.	24.0	25
17	Effect of support redox character on catalytic performance in the gas phase hydrogenation of benzaldehyde and nitrobenzene over supported gold. Catalysis Today, 2017, 279, 19-28.	4.4	24
18	Toward Sustainable Chemoselective Nitroarene Hydrogenation Using Supported Gold as Catalyst. ACS Sustainable Chemistry and Engineering, 2014, 2, 2781-2789.	6.7	23

#	Article	IF	Citations
19	Selective gas phase hydrogenation of nitroarenes over Mo₂C-supported Auâ€“Pd. Catalysis Science and Technology, 2016, 6, 6932-6941.	4.1	16
20	Electric-Field-Assisted Facile Synthesis of Metal Nanoparticles. ACS Sustainable Chemistry and Engineering, 2019, 7, 1271-1278.	6.7	13
21	Impact of Organic Ligands on the Structure and Hydrogenation Performance of Colloidally Prepared Bimetallic PtSn Nanoparticles. ChemCatChem, 2013, 5, 1803-1810.	3.7	12
22	Selective gas phase hydrogenation of p-nitrobenzonitrile to p-aminobenzonitrile over zirconia supported gold. Applied Catalysis A: General, 2016, 510, 171-179.	4.3	12
23	Assessing the environmental performance of NADH regeneration methods: A cleaner process using recyclable Pt/Fe3O4 and hydrogen. Catalysis Today, 2020, 339, 281-288.	4.4	12
24	Experimental Determination and Thermodynamic Correlation of 7-Amino-4-Methylcoumarin Solubility in Various Cosolvency Mixtures at (278.15â€“323.15) K. Journal of Chemical & Engineering Data, 2020, 65, 209-216.	1.9	10
25	Cofactor NAD(P)H Regeneration: How Selective Are the Reactions?. Trends in Chemistry, 2020, 2, 488-492.	8.5	10
26	Directing the H₂-driven selective regeneration of NADH via Sn-doped Pt/SiO₂. Green Chemistry, 2022, 24, 1451-1455.	9.0	9
27	Influence of Alternation of Sulfate Attack and Freeze-Thaw on Microstructure of Concrete. Advances in Materials Science and Engineering, 2015, 2015, 1-7.	1.8	8
28	Gas phase selective hydrogenation of phenylacetylene to styrene over Au/Al₂O₃. Journal of Chemical Technology and Biotechnology, 2019, 94, 3772-3779.	3.2	8
29	Comparative life cycle assessment of NAD(P)H regeneration technologies. Green Chemistry, 2021, 23, 7162-7169.	9.0	8
30	Supported Pt Enabled Proton-Driven NAD(P)⁺ Regeneration for Biocatalytic Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 20943-20952.	8.0	4
31	Solubility Behavior and Thermodynamic Modeling of Inosine (Form Î²) in Four Cosolvency Systems at T = 278.15 to 323.15 K. Journal of Chemical & Engineering Data, 2020, 65, 2170-2177.	1.9	2