Mingyuan Zheng

List of Publications by Citations

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60 papers	3,673 citations	31 h-index	60 g-index
65 ext. papers	4,324 ext. citations	9.2 avg, IF	5.36 L-index

#	Paper	IF	Citations
60	Direct catalytic conversion of cellulose into ethylene glycol using nickel-promoted tungsten carbide catalysts. *Angewandte Chemie - International Edition*, **2008**, 47, 8510-3	16.4	593
59	Hydrolysis of cellulose into glucose over carbons sulfonated at elevated temperatures. *Chemical Communications*, **2010**, 46, 6935-7	5.8	290
58	One-pot catalytic hydrocracking of raw woody biomass into chemicals over supported carbide catalysts: simultaneous conversion of cellulose, hemicellulose and lignin. *Energy and Environmental Science*, **2012**, 5, 6383-6390	35.4	289
57	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. *Green Chemistry* , **2016**, 18, 342-359	10	181
56	Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts. *Angewandte Chemie*, **2008**, 120, 8638-8641	3.6	177
55	Catalytic conversion of cellulose into ethylene glycol over supported carbide catalysts. *Catalysis Today*, **2009**, 147, 77-85	5.3	138
54	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. *Green Chemistry*, **2012**, 14, 614	10	130
53	Temperature-controlled phase-transfer catalysis for ethylene glycol production from cellulose. *Chemical Communications*, **2012**, 48, 7052-4	5.8	125
52	Catalytic conversion of cellulose to ethylene glycol over a low-cost binary catalyst of Raney Ni and tungstic acid. *ChemSusChem*, **2013**, 6, 652-8	8.3	108
51	Selectivity Control for Cellulose to Diols: Dancing on Eggs. *ACS Catalysis*, **2017**, 7, 1939-1954	13.1	100
50	Catalytic Hydrogenation of Corn Stalk to Ethylene Glycol and 1,2-Propylene Glycol. *Industrial & Engineering Chemistry Research*, **2011**, 50, 6601-6608	3.9	100
49	Synthesis of 1,6-hexanediol from HMF over double-layered catalysts of Pd/SiO2 + Ir–ReOx/SiO2 in a fixed-bed reactor. *Green Chemistry*, **2016**, 18, 2175-2184	10	88
48	Catalytic Conversion of Concentrated Glucose to Ethylene Glycol with Semicontinuous Reaction System. *Industrial & Engineering Chemistry Research*, **2013**, 52, 9566-9572	3.9	78
47	Transition metal carbide catalysts for biomass conversion: A review. *Applied Catalysis B: Environmental*, **2019**, 254, 510-522	21.8	77
46	Nickel-promoted tungsten carbide catalysts for cellulose conversion: effect of preparation methods. *ChemSusChem*, **2012**, 5, 939-44	8.3	75
45	Upgrading ethanol to n-butanol over highly dispersed Ni–MgAlO catalysts. *Journal of Catalysis*, **2016**, 344, 184-193	7.3	72
44	Versatile Nickel–Lanthanum(III) Catalyst for Direct Conversion of Cellulose to Glycols. *ACS Catalysis*, **2015**, 5, 874-883	13.1	63

43	Selective production of 1,2-propylene glycol from Jerusalem artichoke tuber using Ni-W(2) C/AC catalysts. *ChemSusChem*, **2012**, 5, 932-8	8.3	63
42	One-pot catalytic conversion of cellulose to ethylene glycol and other chemicals: From fundamental discovery to potential commercialization. *Chinese Journal of Catalysis*, **2014**, 35, 602-613	11.3	61
41	Unique role of M□sbauer spectroscopy in assessing structural features of heterogeneous catalysts. *Applied Catalysis B: Environmental*, **2018**, 224, 518-532	21.8	58
40	Chemocatalytic Conversion of Cellulosic Biomass to Methyl Glycolate, Ethylene Glycol, and Ethanol. *ChemSusChem*, **2017**, 10, 1390-1394	8.3	55
39	Selectivity-Switchable Conversion of Cellulose to Glycols over Ni□n Catalysts. *ACS Catalysis*, **2016**, 6, 191-201	13.1	54
38	Selective Hydrogenation of Cinnamaldehyde to Hydrocinnamaldehyde over SiO2 Supported Nickel Phosphide Catalysts. *Catalysis Letters*, **2008**, 124, 219-225	2.8	53
37	Heterogeneous catalysts for CO2 hydrogenation to formic acid/formate: from nanoscale to single atom. *Energy and Environmental Science*, **2021**, 14, 1247-1285	35.4	48
36	Catalytic conversion of concentrated miscanthus in water for ethylene glycol production. *AICHE Journal*, **2014**, 60, 2254-2262	3.6	42
35	Catalytic Decomposition of Hydrazine over Supported Molybdenum Nitride Catalysts in a Monopropellant Thruster. *Catalysis Letters*, **2002**, 79, 21-25	2.8	42
34	Catalytic Performance of Activated Carbon Supported Tungsten Carbide for Hydrazine Decomposition. *Catalysis Letters*, **2008**, 123, 150-155	2.8	40
33	Catalytic conversion of cellulosic biomass to ethylene glycol: Effects of inorganic impurities in biomass. *Bioresource Technology*, **2015**, 175, 424-9	11	37
32	Catalytic Conversion of Carbohydrates to Methyl Lactate Using Isolated Tin Sites in SBA-15. *ChemistrySelect*, **2017**, 2, 309-314	1.8	35
31	Industrially scalable and cost-effective synthesis of 1,3-cyclopentanediol with furfuryl alcohol from lignocellulose. *Green Chemistry*, **2016**, 18, 3607-3613	10	31
30	Microwave discharge-assisted NO reduction by CH4 over Co/HZSM-5 and Ni/HZSM-5 under O2 excess. *Catalysis Letters*, **2001**, 73, 193-197	2.8	31
29	Carbon-covered Alumina: A Superior Support of Noble Metal-like Catalysts for Hydrazine Decomposition. *Catalysis Letters*, **2008**, 121, 90-96	2.8	30
28	Unlock the Compact Structure of Lignocellulosic Biomass by Mild Ball Milling for Ethylene Glycol Production. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 679-687	8.3	30
27	Production of renewable 1,3-pentadiene from xylitol via formic acid-mediated deoxydehydration and palladium-catalyzed deoxygenation reactions. *Green Chemistry*, **2017**, 19, 638-642	10	27
26	Selective conversion of concentrated glucose to 1,2-propylene glycol and ethylene glycol by using RuSn/AC catalysts. *Applied Catalysis B: Environmental*, **2018**, 239, 300-308	21.8	27

25	Catalytic Decomposition of Hydrazine over Mo2C/Al2O3 Catalysts. *Industrial & Engineering Chemistry Research*, **2004**, 43, 6040-6047	3.9	26
24	Ethylene glycol production from glucose over W-Ru catalysts: Maximizing yield by kinetic modeling and simulation. *AICHE Journal*, **2017**, 63, 2072-2080	3.6	21
23	Catalytic conversion of ethanol into butadiene over high performance LiZnHf-MFI zeolite nanosheets. *Green Chemistry*, **2019**, 21, 1006-1010	10	20
22	Selective removal of 1,2-propanediol and 1,2-butanediol from bio-ethylene glycol by catalytic reaction. *AICHE Journal*, **2017**, 63, 4032-4042	3.6	19
21	A Novel Route to the Preparation of Carbon Supported Nickel Phosphide Catalysts by a Microwave Heating Process. *Catalysis Letters*, **2010**, 135, 305-311	2.8	18
20	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. *ACS Catalysis*, **2020**, 10, 13624-13629	13.1	14
19	One-pot synthesis of 2-hydroxymethyl-5-methylpyrazine from renewable 1,3-dihydroxyacetone. *Green Chemistry*, **2017**, 19, 3515-3519	10	13
18	Conversion of ethanol to 1,3-butadiene over high-performance MgZrOx/MFI nanosheet catalysts via the two-step method. *Green Chemistry*, **2020**, 22, 2852-2861	10	13
17	One-pot conversion of lysine to caprolactam over Ir/H-Beta catalysts. *Green Chemistry*, **2019**, 21, 2462-2468	10	10
16	Kinetic study on catalytic dehydration of 1,2-propanediol and 1,2-butanediol over H-Beta for bio-ethylene glycol purification. *Chemical Engineering Journal*, **2018**, 335, 530-538	14.7	10
15	Catalytic upgrading of ethanol to butanol over a binary catalytic system of FeNiO and LiOH. *Chinese Journal of Catalysis*, **2020**, 41, 672-678	11.3	9
14	Complete conversion of lignocellulosic biomass to mixed organic acids and ethylene glycol via cascade steps. *Green Chemistry*, **2021**, 23, 2427-2436	10	8
13	Advances in catalytic dehydrogenation of ethanol to acetaldehyde. *Green Chemistry*,	10	7
12	Synthesis of ethanol and its catalytic conversion. *Advances in Catalysis*, **2019**, 64, 89-191	2.4	5
11	Advancing development of biochemicals through the comprehensive evaluation of bio-ethylene glycol. *Chemical Engineering Journal*, **2021**, 411, 128516	14.7	5
10	Pd/sulfated alumina new effective catalyst for the selective catalytic reduction of NO with CH4. *Topics in Catalysis*, **2004**, 30/31, 103-105	2.3	4
9	Vapor-Phase Furfural Decarbonylation over a High-Performance Catalyst of 1%Pt/SBA-15. *Catalysts*, **2020**, 10, 1304	4	4
8	Catalytic Aerobic Oxidation of Lignocellulose-Derived Levulinic Acid in Aqueous Solution: A Novel Route to Synthesize Dicarboxylic Acids for Bio-Based Polymers. *ACS Catalysis*, **2021**, 11, 11588-11596	13.1	3

7	Conversion of Ethanol to n-Butanol over NiCeO2 Based Catalysts: Effects of Metal Dispersion and NiCe Interactions. *Industrial & Engineering Chemistry Research*, **2020**, 59, 22057-22067	3.9	2
6	Activated Carbon and Ordered Mesoporous Carbon-Based Catalysts for Biomass Conversion **2017**, 17-54		2
5	Heterogeneous Catalysts for Biomass Conversion **2012**, 313-348		2
4	Cover Picture: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (Angew. Chem. Int. Ed. 44/2008). *Angewandte Chemie - International Edition*, **2008**, 47, 8321-8321	16.4	2
3	Catalytic Conversion of Tetrahydrofurfuryl Alcohol over Stable Pt/MoS2 Catalysts. *Catalysis Letters*, **2021**, 151, 2734-2747	2.8	2
2	Titelbild: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (Angew. Chem. 44/2008). *Angewandte Chemie*, **2008**, 120, 8445-8445	3.6	
1	Tuning the Reaction Selectivity over MgAl Spinel-Supported Pt Catalyst in Furfuryl Alcohol Conversion to Pentanediols. *Catalysts*, **2021**, 11, 415	4	