

Mingyuan Zheng

List of Publications by Year in descending order

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62
papers

4,928
citations

117625

34
h-index

118850

62
g-index

65
all docs

65
docs citations

65
times ranked

3939
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8510-8513.	13.8	671
2	One-pot catalytic hydrocracking of raw woody biomass into chemicals over supported carbide catalysts: simultaneous conversion of cellulose, hemicellulose and lignin. <i>Energy and Environmental Science</i> , 2012, 5, 6383-6390.	30.8	358
3	Hydrolysis of cellulose into glucose over carbons sulfonated at elevated temperatures. <i>Chemical Communications</i> , 2010, 46, 6935.	4.1	313
4	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. <i>Green Chemistry</i> , 2016, 18, 342-359.	9.0	254
5	Selectivity Control for Cellulose to Diols: Dancing on Eggs. <i>ACS Catalysis</i> , 2017, 7, 1939-1954.	11.2	162
6	Catalytic conversion of cellulose into ethylene glycol over supported carbide catalysts. <i>Catalysis Today</i> , 2009, 147, 77-85.	4.4	157
7	Temperature-controlled phase-transfer catalysis for ethylene glycol production from cellulose. <i>Chemical Communications</i> , 2012, 48, 7052.	4.1	152
8	Heterogeneous catalysts for CO ₂ hydrogenation to formic acid/formate: from nanoscale to single atom. <i>Energy and Environmental Science</i> , 2021, 14, 1247-1285.	30.8	152
9	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. <i>Green Chemistry</i> , 2012, 14, 614.	9.0	151
10	Transition metal carbide catalysts for biomass conversion: A review. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 510-522.	20.2	149
11	Catalytic Conversion of Cellulose to Ethylene Glycol over a Low-Cost Binary Catalyst of Raney Ni and Tungstic Acid. <i>ChemSusChem</i> , 2013, 6, 652-658.	6.8	132
12	Synthesis of 1,6-hexanediol from HMF over double-layered catalysts of Pd/SiO ₂ + Ir-ReO _x /SiO ₂ in a fixed-bed reactor. <i>Green Chemistry</i> , 2016, 18, 2175-2184.	9.0	127
13	Catalytic Hydrogenation of Corn Stalk to Ethylene Glycol and 1,2-Propylene Glycol. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 6601-6608.	3.7	119
14	Catalytic Conversion of Concentrated Glucose to Ethylene Glycol with Semicontinuous Reaction System. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9566-9572.	3.7	103
15	Upgrading ethanol to n-butanol over highly dispersed Ni-MgAlO catalysts. <i>Journal of Catalysis</i> , 2016, 344, 184-193.	6.2	103
16	Nickel-Promoted Tungsten Carbide Catalysts for Cellulose Conversion: Effect of Preparation Methods. <i>ChemSusChem</i> , 2012, 5, 939-944.	6.8	96
17	Versatile Nickel-Lanthanum(III) Catalyst for Direct Conversion of Cellulose to Glycols. <i>ACS Catalysis</i> , 2015, 5, 874-883.	11.2	92
18	Selectivity-Switchable Conversion of Cellulose to Glycols over Ni-Sn Catalysts. <i>ACS Catalysis</i> , 2016, 6, 191-201.	11.2	83

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19	Unique role of Mössbauer spectroscopy in assessing structural features of heterogeneous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 518-532.	20.2	83
20	Selective Production of 1,2-Propanediol from Jerusalem Artichoke Tuber using Ni ₂ C/AC Catalysts. <i>ChemSusChem</i> , 2012, 5, 932-938.	6.8	74
21	Chemocatalytic Conversion of Cellulosic Biomass to Methyl Glycolate, Ethylene Glycol, and Ethanol. <i>ChemSusChem</i> , 2017, 10, 1390-1394.	6.8	73
22	One-pot catalytic conversion of cellulose to ethylene glycol and other chemicals: From fundamental discovery to potential commercialization. <i>Chinese Journal of Catalysis</i> , 2014, 35, 602-613.	14.0	72
23	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. <i>ACS Catalysis</i> , 2020, 10, 13624-13629.	11.2	63
24	Unlock the Compact Structure of Lignocellulosic Biomass by Mild Ball Milling for Ethylene Glycol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 679-687.	6.7	62
25	Selective Hydrogenation of Cinnamaldehyde to Hydrocinnamaldehyde over SiO ₂ Supported Nickel Phosphide Catalysts. <i>Catalysis Letters</i> , 2008, 124, 219-225.	2.6	56
26	Title is missing!. <i>Catalysis Letters</i> , 2002, 79, 21-25.	2.6	55
27	Catalytic conversion of concentrated miscanthus in water for ethylene glycol production. <i>AIChE Journal</i> , 2014, 60, 2254-2262.	3.6	53
28	Selective conversion of concentrated glucose to 1,2-propanediol and ethylene glycol by using RuSn/AC catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 300-308.	20.2	49
29	Catalytic conversion of cellulosic biomass to ethylene glycol: Effects of inorganic impurities in biomass. <i>Bioresource Technology</i> , 2015, 175, 424-429.	9.6	48
30	Catalytic Conversion of Carbohydrates to Methyl Lactate Using Isolated Tin Sites in SBA-15. <i>ChemistrySelect</i> , 2017, 2, 309-314.	1.5	46
31	Catalytic Performance of Activated Carbon Supported Tungsten Carbide for Hydrazine Decomposition. <i>Catalysis Letters</i> , 2008, 123, 150-155.	2.6	42
32	Advances in catalytic dehydrogenation of ethanol to acetaldehyde. <i>Green Chemistry</i> , 2021, 23, 7902-7916.	9.0	41
33	Ethylene glycol production from glucose over W-Ru catalysts: Maximizing yield by kinetic modeling and simulation. <i>AIChE Journal</i> , 2017, 63, 2072-2080.	3.6	38
34	Microwave discharge-assisted NO reduction by CH ₄ over Co/HZSM-5 and Ni/HZSM-5 under O ₂ excess. <i>Catalysis Letters</i> , 2001, 73, 193-197.	2.6	37
35	Industrially scalable and cost-effective synthesis of 1,3-cyclopentanediol with furfuryl alcohol from lignocellulose. <i>Green Chemistry</i> , 2016, 18, 3607-3613.	9.0	37
36	Carbon-covered Alumina: A Superior Support of Noble Metal-like Catalysts for Hydrazine Decomposition. <i>Catalysis Letters</i> , 2008, 121, 90-96.	2.6	32

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37	Production of renewable 1,3-pentadiene from xylitol via formic acid-mediated deoxydehydration and palladium-catalyzed deoxygenation reactions. <i>Green Chemistry</i> , 2017, 19, 638-642.	9.0	31
38	Catalytic Decomposition of Hydrazine over γ -Mo ₂ C/ γ -Al ₂ O ₃ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6040-6047.	3.7	30
39	Catalytic conversion of ethanol into butadiene over high performance LiZnHf-MFI zeolite nanosheets. <i>Green Chemistry</i> , 2019, 21, 1006-1010.	9.0	30
40	Selective removal of 1,2-propanediol and 1,2-butanediol from bio-ethylene glycol by catalytic reaction. <i>AIChE Journal</i> , 2017, 63, 4032-4042.	3.6	27
41	Conversion of ethanol to 1,3-butadiene over high-performance Mg ²⁺ /ZrO _x /MFI nanosheet catalysts via the two-step method. <i>Green Chemistry</i> , 2020, 22, 2852-2861.	9.0	24
42	One-pot conversion of lysine to caprolactam over Ir/H-Beta catalysts. <i>Green Chemistry</i> , 2019, 21, 2462-2468.	9.0	23
43	Complete conversion of lignocellulosic biomass to mixed organic acids and ethylene glycol via cascade steps. <i>Green Chemistry</i> , 2021, 23, 2427-2436.	9.0	23
44	Catalytic upgrading of ethanol to butanol over a binary catalytic system of FeNiO and LiOH. <i>Chinese Journal of Catalysis</i> , 2020, 41, 672-678.	14.0	20
45	Advancing development of biochemicals through the comprehensive evaluation of bio-ethylene glycol. <i>Chemical Engineering Journal</i> , 2021, 411, 128516.	12.7	19
46	A Novel Route to the Preparation of Carbon Supported Nickel Phosphide Catalysts by a Microwave Heating Process. <i>Catalysis Letters</i> , 2010, 135, 305-311.	2.6	18
47	Conversion of Ethanol to n-Butanol over NiCeO ₂ Based Catalysts: Effects of Metal Dispersion and NiCe Interactions. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22057-22067.	3.7	18
48	One-pot synthesis of 2-hydroxymethyl-5-methylpyrazine from renewable 1,3-dihydroxyacetone. <i>Green Chemistry</i> , 2017, 19, 3515-3519.	9.0	17
49	Zeolite-encapsulated Cu nanoparticles with enhanced performance for ethanol dehydrogenation. <i>Journal of Catalysis</i> , 2022, 413, 565-574.	6.2	16
50	Kinetic study on catalytic dehydration of 1,2-propanediol and 1,2-butanediol over H-Beta for bio-ethylene glycol purification. <i>Chemical Engineering Journal</i> , 2018, 335, 530-538.	12.7	15
51	Hetero-Lattice Intergrown and Robust MOF Membranes for Polyol Upgrading. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
52	Synthesis of ethanol and its catalytic conversion. <i>Advances in Catalysis</i> , 2019, 64, 89-191.	0.2	13
53	Catalytic Aerobic Oxidation of Lignocellulose-Derived Levulinic Acid in Aqueous Solution: A Novel Route to Synthesize Dicarboxylic Acids for Bio-Based Polymers. <i>ACS Catalysis</i> , 2021, 11, 11588-11596.	11.2	13
54	Active and stable Cu doped NiMgAlO catalysts for upgrading ethanol to n-butanol. <i>Journal of Energy Chemistry</i> , 2022, 72, 306-317.	12.9	12

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55	Catalytic hydrogenation of maleic anhydride to γ -butyrolactone over a high-performance hierarchical Ni-Zr-MFI catalyst. <i>Journal of Catalysis</i> , 2022, 410, 69-83.	6.2	9
56	Vapor-Phase Furfural Decarbonylation over a High-Performance Catalyst of 1%Pt/SBA-15. <i>Catalysts</i> , 2020, 10, 1304.	3.5	6
57	Catalytic Conversion of Tetrahydrofurfuryl Alcohol over Stable Pt/MoS ₂ Catalysts. <i>Catalysis Letters</i> , 2021, 151, 2734-2747.	2.6	6
58	Pd/Sulfated Alumina—A New Effective Catalyst for the Selective Catalytic Reduction of NO with CH ₄ . <i>Topics in Catalysis</i> , 2004, 30/31, 103-105.	2.8	5
59	Hetero-Lattice Intergrown and Robust MOF Membranes for Polyol Upgrading. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
60	Cover Picture: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (<i>Angew. Chem. Int. Ed.</i> 44/2008). <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8321-8321.	13.8	2
61	Tuning the Reaction Selectivity over MgAl Spinel-Supported Pt Catalyst in Furfuryl Alcohol Conversion to Pentanediols. <i>Catalysts</i> , 2021, 11, 415.	3.5	2
62	Titelbild: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (<i>Angew. Chem.</i> 44/2008). <i>Angewandte Chemie</i> , 2008, 120, 8445-8445.	2.0	0