

Mingyuan Zheng

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Tuning the Reaction Selectivity over MgAl Spinel-Supported Pt Catalyst in Furfuryl Alcohol Conversion to Pentanediols. <i>Catalysts</i> , 2021 , 11, 415	4	
59	Advancing development of biochemicals through the comprehensive evaluation of bio-ethylene glycol. <i>Chemical Engineering Journal</i> , 2021 , 411, 128516	14.7	5
58	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	13.1	3
57	Catalytic Conversion of Tetrahydrofurfuryl Alcohol over Stable Pt/MoS ₂ Catalysts. <i>Catalysis Letters</i> , 2021 , 151, 2734-2747	2.8	2
56	Complete conversion of lignocellulosic biomass to mixed organic acids and ethylene glycol via cascade steps. <i>Green Chemistry</i> , 2021 , 23, 2427-2436	10	8
55	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	35.4	48
54	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	3.9	2
53	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	11.3	9
52	Vapor-Phase Furfural Decarbonylation over a High-Performance Catalyst of 1%Pt/SBA-15. <i>Catalysts</i> , 2020 , 10, 1304	4	4
51	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 13624-13629	13.29	14
50	Conversion of ethanol to 1,3-butadiene over high-performance MgZrOx/MFI nanosheet catalysts via the two-step method. <i>Green Chemistry</i> , 2020 , 22, 2852-2861	10	13
49	Transition metal carbide catalysts for biomass conversion: A review. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 510-522	21.8	77
48	One-pot conversion of lysine to caprolactam over Ir/H-Beta catalysts. <i>Green Chemistry</i> , 2019 , 21, 2462-2468	10	10
47	Synthesis of ethanol and its catalytic conversion. <i>Advances in Catalysis</i> , 2019 , 64, 89-191	2.4	5
46	Catalytic conversion of ethanol into butadiene over high performance LiZnHf-MFI zeolite nanosheets. <i>Green Chemistry</i> , 2019 , 21, 1006-1010	10	20
45	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	8.3	30
44	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	14.7	10

43	Selective conversion of concentrated glucose to 1,2-propylene glycol and ethylene glycol by using RuSn/AC catalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 300-308	21.8	27
42	Unique role of Mössbauer spectroscopy in assessing structural features of heterogeneous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 518-532	21.8	58
41	Catalytic Conversion of Carbohydrates to Methyl Lactate Using Isolated Tin Sites in SBA-15. <i>ChemistrySelect</i> , 2017 , 2, 309-314	1.8	35
40	Selectivity Control for Cellulose to Diols: Dancing on Eggs. <i>ACS Catalysis</i> , 2017 , 7, 1939-1954	13.1	100
39	Chemocatalytic Conversion of Cellulosic Biomass to Methyl Glycolate, Ethylene Glycol, and Ethanol. <i>ChemSusChem</i> , 2017 , 10, 1390-1394	8.3	55
38	One-pot synthesis of 2-hydroxymethyl-5-methylpyrazine from renewable 1,3-dihydroxyacetone. <i>Green Chemistry</i> , 2017 , 19, 3515-3519	10	13
37	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	19
36	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	10	27
35	Activated Carbon and Ordered Mesoporous Carbon-Based Catalysts for Biomass Conversion 2017 , 17-54		2
34	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	21
33	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. <i>Green Chemistry</i> , 2016 , 18, 342-359	10	181
32	Selectivity-Switchable Conversion of Cellulose to Glycols over NiSn Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 191-201	13.1	54
31	Industrially scalable and cost-effective synthesis of 1,3-cyclopentanediol with furfuryl alcohol from lignocellulose. <i>Green Chemistry</i> , 2016 , 18, 3607-3613	10	31
30	Synthesis of 1,6-hexanediol from HMF over double-layered catalysts of Pd/SiO ₂ + IrReOx/SiO ₂ in a fixed-bed reactor. <i>Green Chemistry</i> , 2016 , 18, 2175-2184	10	88
29	Upgrading ethanol to n-butanol over highly dispersed NiMgAlO catalysts. <i>Journal of Catalysis</i> , 2016 , 344, 184-193	7.3	72
28	Catalytic conversion of cellulosic biomass to ethylene glycol: Effects of inorganic impurities in biomass. <i>Bioresource Technology</i> , 2015 , 175, 424-9	11	37
27	Versatile Nickel-Lanthanum(III) Catalyst for Direct Conversion of Cellulose to Glycols. <i>ACS Catalysis</i> , 2015 , 5, 874-883	13.1	63
26	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	11.3	61

25	Catalytic conversion of concentrated miscanthus in water for ethylene glycol production. <i>AICHE Journal</i> , 2014 , 60, 2254-2262	3.6	42
24	Catalytic conversion of cellulose to ethylene glycol over a low-cost binary catalyst of Raney Ni and tungstic acid. <i>ChemSusChem</i> , 2013 , 6, 652-8	8.3	108
23	Catalytic Conversion of Concentrated Glucose to Ethylene Glycol with Semicontinuous Reaction System. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 9566-9572	3.9	78
22	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. <i>Green Chemistry</i> , 2012 , 14, 614	10	130
21	Heterogeneous Catalysts for Biomass Conversion 2012 , 313-348		2
20	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	35.4	289
19	Temperature-controlled phase-transfer catalysis for ethylene glycol production from cellulose. <i>Chemical Communications</i> , 2012 , 48, 7052-4	5.8	125
18	Selective production of 1,2-propylene glycol from Jerusalem artichoke tuber using Ni-W(2) C/AC catalysts. <i>ChemSusChem</i> , 2012 , 5, 932-8	8.3	63
17	Nickel-promoted tungsten carbide catalysts for cellulose conversion: effect of preparation methods. <i>ChemSusChem</i> , 2012 , 5, 939-44	8.3	75
16	Catalytic Hydrogenation of Corn Stalk to Ethylene Glycol and 1,2-Propylene Glycol. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 6601-6608	3.9	100
15	Hydrolysis of cellulose into glucose over carbons sulfonated at elevated temperatures. <i>Chemical Communications</i> , 2010 , 46, 6935-7	5.8	290
14	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	2.8	18
13	Catalytic conversion of cellulose into ethylene glycol over supported carbide catalysts. <i>Catalysis Today</i> , 2009 , 147, 77-85	5.3	138
12	Carbon-covered Alumina: A Superior Support of Noble Metal-like Catalysts for Hydrazine Decomposition. <i>Catalysis Letters</i> , 2008 , 121, 90-96	2.8	30
11	Catalytic Performance of Activated Carbon Supported Tungsten Carbide for Hydrazine Decomposition. <i>Catalysis Letters</i> , 2008 , 123, 150-155	2.8	40
10	Selective Hydrogenation of Cinnamaldehyde to Hydrocinnamaldehyde over SiO ₂ Supported Nickel Phosphide Catalysts. <i>Catalysis Letters</i> , 2008 , 124, 219-225	2.8	53
9	Direct catalytic conversion of cellulose into ethylene glycol using nickel-promoted tungsten carbide catalysts. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8510-3	16.4	593
8	Cover Picture: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (Angew. Chem. Int. Ed. 44/2008). <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8321-8321	16.4	2

7	Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts. <i>Angewandte Chemie</i> , 2008 , 120, 8638-8641	3.6	177
6	Titelbild: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (Angew. Chem. 44/2008). <i>Angewandte Chemie</i> , 2008 , 120, 8445-8445	3.6	
5	Pd/sulfated alumina – new effective catalyst for the selective catalytic reduction of NO with CH ₄ . <i>Topics in Catalysis</i> , 2004 , 30/31, 103-105	2.3	4
4	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	3.9	26
3	Catalytic Decomposition of Hydrazine over Supported Molybdenum Nitride Catalysts in a Monopropellant Thruster. <i>Catalysis Letters</i> , 2002 , 79, 21-25	2.8	42
2	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	2.8	31
1	Advances in catalytic dehydrogenation of ethanol to acetaldehyde. <i>Green Chemistry</i> ,	10	7