Lingjun Zhu

List of Publications by Year
in descending order

45 papers	1,418 citations	361413 20 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1606 citing authors

#	Article	IF	Citations
1	CO2 methanation on the catalyst of Ni/MCM-41 promoted with CeO2. Science of the Total Environment, 2018, 625, 686-695.	8.0	142
2	Improved Fischerâ€“Tropsch synthesis for gasoline over Ru, Ni promoted Co/HZSM-5 catalysts. Fuel, 2013, 108, 597-603.	6.4	112
3	Nitrogen-Doped Hierarchical Porous Biochar Derived from Corn Stalks for Phenol-Enhanced Adsorption. Energy & Fuels, 2019, 33, 12459-12468.	5.1	90
4	Methyl Acetate Synthesis from Dimethyl Ether Carbonylation over Mordenite Modified by Cation Exchange. Journal of Physical Chemistry C, 2015, 119, 524-533.	3.1	88
5	Enhancement of CO₂ Methanation over La-Modified Ni/SBA-15 Catalysts Prepared by Different Doping Methods. ACS Sustainable Chemistry and Engineering, 2019, 7, 14647-14660.	6.7	69
6	Biochar: a new promising catalyst support using methanation as a probe reaction. Energy Science and Engineering, 2015, 3, 126-134.	4.0	68
7	Conversion of C5 carbohydrates into furfural catalyzed by a Lewis acidic ionic liquid in renewable Î³-valerolactone. Green Chemistry, 2017, 19, 3869-3879.	9.0	68
8	Effect of Torrefaction on the Structure and Pyrolysis Behavior of Lignin. Energy & Fuels, 2018, 32, 4160-4166.	5.1	62
9	Methanation of bio-syngas over a biochar supported catalyst. New Journal of Chemistry, 2014, 38, 4471.	2.8	58
10	Co-cracking of bio-oil model compound mixtures and ethanol over different metal oxide-modified HZSM-5 catalysts. Fuel, 2015, 160, 534-543.	6.4	58
11	Effect of the Cu/SBA-15 catalyst preparation method on methyl acetate hydrogenation for ethanol production. New Journal of Chemistry, 2014, 38, 2792.	2.8	49
12	Highly active and selective Cu/SiO2 catalysts prepared by the urea hydrolysis method in dimethyl oxalate hydrogenation. Catalysis Communications, 2011, 12, 1246-1250.	3.3	48
13	Conversion of Glucose into 5-Hydroxymethylfurfural and Levulinic Acid Catalyzed by SO₄^{2â€“}/ZrO₂ in a Biphasic Solvent System. Energy & Fuels, 2020, 34, 11041-11049.	5.1	48
14	Mild hydrogenation of bio-oil and its derived phenolic monomers over Ptâ€“Ni bimetal-based catalysts. Applied Energy, 2020, 275, 115154.	10.1	47
15	Enhanced furfural production from biomass and its derived carbohydrates in the renewable butanoneâ€“water solvent system. Sustainable Energy and Fuels, 2019, 3, 3208-3218.	4.9	28
16	Comparative Study on the Dehydration of Biomass-Derived Disaccharides and Polysaccharides to 5-Hydroxymethylfurfural. Energy & Fuels, 2019, 33, 9985-9995.	5.1	27
17	Influence of Ni Promotion on Liquid Hydrocarbon Fuel Production over Co/CNT Catalysts. Energy & Fuels, 2013, 27, 3961-3968.	5.1	26
18	Dehydration of xylose to furfural in butanone catalyzed by BrÃ¸nstedâ€Lewis acidic ionic liquids. Energy Science and Engineering, 2019, 7, 2237-2246.	4.0	25

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19	Experimental study and life cycle assessment of CO2 methanation over biochar supported catalysts. Applied Energy, 2020, 280, 115919.	10.1	24
20	Conversion of Xylose to Furfural Catalyzed by Carbon-Based Solid Acid Prepared from Pectin. Energy & Fuels, 2021, 35, 9961-9969.	5.1	23
21	Green Conversion of Microalgae into Highâ€Performance Spongeâ€Like Nitrogenâ€Enriched Carbon. ChemElectroChem, 2019, 6, 646-652.	3.4	22
22	Hydrodeoxygenation of Ligninâ€Derived Monomers and Dimers over a Ru Supported Solid Super Acid Catalyst for Cycloalkane Production. Advanced Sustainable Systems, 2020, 4, 1900136.	5.3	18
23	Catalytic methanation of syngas over Ni-based catalysts with different supports. Chinese Journal of Chemical Engineering, 2017, 25, 602-608.	3.5	17
24	Experimental and Kinetic Study of Arabinose Conversion to Furfural in Renewable Butanoneâ€“Water Solvent Mixture Catalyzed by Lewis Acidic Ionic Liquid Catalyst. Industrial & Engineering Chemistry Research, 2019, 58, 17088-17097.	3.7	16
25	Influence of inlet gas composition on dimethyl ether carbonylation and the subsequent hydrogenation of methyl acetate in two-stage ethanol synthesis. New Journal of Chemistry, 2016, 40, 6460-6466.	2.8	15
26	Dual -functional carbon-based solid acid-induced hydrothermal conversion of biomass saccharides: catalyst rational design and kinetic analysis. Green Chemistry, 2021, 23, 8458-8467.	9.0	15
27	Critical Review on the Preparation of Platform Compounds from Biomass or Saccharides via Hydrothermal Conversion over Carbon-Based Solid Acid Catalysts. Energy & Fuels, 2021, 35, 14462-14483.	5.1	15
28	Mechanism study on the effect of glycerol addition on tobacco pyrolysis. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105183.	5.5	13
29	Bio-MCM-41: a high-performance catalyst support derived from pyrolytic biochar. New Journal of Chemistry, 2018, 42, 12394-12402.	2.8	12
30	Selective Fischer-Tropsch synthesis for gasoline production over Y, Ce, or La-modified Co/H-Î². Fuel, 2020, 262, 116490.	6.4	12
31	Effect of Ni Precipitation Method on CO Methanation over Ni/TiO2 Catalysts. Chemical Research in Chinese Universities, 2018, 34, 296-301.	2.6	11
32	Catalytic Reforming of the Aqueous Phase Derived from Diluted Hydrogen Peroxide Oxidation of Waste Polyethylene for Hydrogen Production. ChemSusChem, 2021, 14, 4270-4279.	6.8	11
33	Preparation of Nitrogen and Sulfur Coâ€doped and Interconnected Hierarchical Porous Biochar by Pyrolysis of Mantis Shrimp in CO₂ Atmosphere for Symmetric Supercapacitors. ChemElectroChem, 2021, 8, 3745-3754.	3.4	11
34	Comparative Life Cycle Assessment of Ethanol Synthesis from Corn Stover by Direct and Indirect Thermochemical Conversion Processes. Energy & Fuels, 2015, 29, 7998-8005.	5.1	9
35	Green Conversion of Microalgae into Highâ€Performance Spongeâ€like Nitrogenâ€Enriched Carbon. ChemElectroChem, 2019, 6, 602-602.	3.4	9
36	Novel Approach on Developing TiO₂-Supported Heteropolyacids Catalyst for the Efficient Conversion of Xylose to Furfural. Energy & Fuels, 2022, 36, 7599-7607.	5.1	9

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37	The catalytic properties evolution of HZSM-5 in the conversion of methanol to gasoline. RSC Advances, 2016, 6, 82515-82522.	3.6	8
38	Selective Fischerâ€“Tropsch synthesis for jet fuel production over Y³⁺ modified Co/H-Î² catalysts. Sustainable Energy and Fuels, 2020, 4, 3528-3536.	4.9	8
39	Selective Demethoxylation of Lignin-Derived Methoxyphenols to Phenols over Lignin-Derived-Biochar-Supported Mo₂C Catalysts. Energy & Fuels, 2021, 35, 17138-17148.	5.1	6
40	Experimental Research on Catalytic Esterification of Bio-Oil Volatile Fraction. , 2010, , .		4
41	The influence mechanism of solvent on the hydrogenation of dimethyl oxalate. Chinese Journal of Chemical Engineering, 2019, 27, 386-390.	3.5	4
42	Preparation of energy platform chemicals by hydrothermal conversion of citrus peel. Energy Science and Engineering, 2021, 9, 1033-1041.	4.0	4
43	Production of aromatic hydrocarbons by co-cracking of bio-oil and ethanol over Ga2O3/HZSM-5 catalysts. Chinese Journal of Chemical Engineering, 2022, 46, 126-133.	3.5	4
44	Synthetic fuels and chemicals production from biomass synthesis gas. , 2010, , .		2
45	Ethylene glycol and ethanol synthesis from dimethyl oxalate hydrogenation on the Cu/ZnO/SiO₂ catalysts. , 2011, , .		1