

Ximing Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

957
citations

430874

18
h-index

454955

30
g-index

38
all docs

38
docs citations

38
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	Maleic acid and aluminum chloride catalyzed conversion of glucose to 5-(hydroxymethyl) furfural and levulinic acid in aqueous media. <i>Green Chemistry</i> , 2016, 18, 5219-5229.	9.0	110
2	Hydrothermal carbonization of cellulose and xylan into hydrochars and application on glucose isomerization. <i>Journal of Cleaner Production</i> , 2019, 237, 117831.	9.3	83
3	Kinetics of Maleic Acid and Aluminum Chloride Catalyzed Dehydration and Degradation of Glucose. <i>Energy & Fuels</i> , 2015, 29, 2387-2393.	5.1	74
4	Green Synthesis of Nitrogen-doped Porous Carbon Derived from Rice Straw for High-performance Supercapacitor Application. <i>Energy & Fuels</i> , 2020, 34, 8966-8976.	5.1	71
5	Bamboo derived hydrochar microspheres fabricated by acid-assisted hydrothermal carbonization. <i>Chemosphere</i> , 2021, 263, 128093.	8.2	62
6	Atomic-Level Structure Characterization of Biomass Pre- and Post-Lignin Treatment by Dynamic Nuclear Polarization-Enhanced Solid-State NMR. <i>Journal of Physical Chemistry A</i> , 2017, 121, 623-630.	2.5	57
7	Cellulose modification by recyclable swelling solvents. <i>Biotechnology for Biofuels</i> , 2018, 11, 191.	6.2	44
8	Overcoming cellulose recalcitrance in woody biomass for the lignin-first biorefinery. <i>Biotechnology for Biofuels</i> , 2019, 12, 171.	6.2	37
9	Effect of Swelling Pretreatment on Properties of Cellulose-Based Hydrochar. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10821-10829.	6.7	32
10	Corn stover valorization by one-step formic acid fractionation and formylation for 5-hydroxymethylfurfural and high guaiacyl lignin production. <i>Bioresource Technology</i> , 2020, 299, 122586.	9.6	32
11	Selective 5-hydroxymethylfurfural production from cellulose formate in DMSO-H ₂ O media. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119799.	20.2	30
12	Synthesis of Fe/N Co-doped Porous Carbon Spheres Derived from Corn cob for Supercapacitors with High Performances. <i>Energy & Fuels</i> , 2021, 35, 14157-14168.	5.1	27
13	Production of cellulose nanofibers using phenolic enhanced surface oxidation. <i>Carbohydrate Polymers</i> , 2017, 174, 120-127.	10.2	26
14	Green Synthesis of Fe-Decorated Carbon Sphere/Nanosheet Derived from Bamboo for High-Performance Supercapacitor Application. <i>Energy & Fuels</i> , 2021, 35, 827-838.	5.1	25
15	Enhanced rates of enzymatic saccharification and catalytic synthesis of biofuel substrates in gelatinized cellulose generated by trifluoroacetic acid. <i>Biotechnology for Biofuels</i> , 2017, 10, 310.	6.2	23
16	Green synthesis of aluminum-hydrochar for the selective isomerization of glucose to fructose. <i>Science of the Total Environment</i> , 2020, 727, 138743.	8.0	23
17	Enhanced Acid-Catalyzed Biomass Conversion to Hydroxymethylfurfural Following Cellulose Solvent- and Organic Solvent-Based Lignocellulosic Fractionation Pretreatment. <i>Energy & Fuels</i> , 2016, 30, 9975-9977.	5.1	22
18	Enzymatic Epoxidation of High Oleic Soybean Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8578-8583.	6.7	18

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19	Glucose isomerization catalyzed by swollen cellulose derived aluminum-hydrochar. <i>Science of the Total Environment</i> , 2021, 777, 146037.	8.0	16
20	Impacts of molybdate and ferric chloride on biohythane production through two-stage anaerobic digestion of sulfate-rich hydrolyzed tofu processing residue. <i>Bioresource Technology</i> , 2022, 355, 127239.	9.6	15
21	Effects of hydrothermal pretreatment and bamboo hydrochar addition on anaerobic digestion of tofu residue for biogas production. <i>Bioresource Technology</i> , 2021, 336, 125279.	9.6	14
22	Gamagrass varieties as potential feedstock for fermentable sugar production. <i>Bioresource Technology</i> , 2012, 116, 540-544.	9.6	13
23	Rapid Liquefaction of Corn Stover with Microwave Heating. <i>BioResources</i> , 2015, 10, .	1.0	13
24	Combination of ultrasonic and acidic pretreatments for enhancing biohythane production from tofu processing residue via one-stage anaerobic digestion. <i>Bioresource Technology</i> , 2022, 344, 126244.	9.6	12
25	Endogenous calcium enriched hydrochar catalyst derived from water hyacinth for glucose isomerization. <i>Science of the Total Environment</i> , 2022, 807, 150660.	8.0	11
26	Fenton Reaction-Modified Corn Stover To Produce Value-Added Chemicals by Ultralow Enzyme Hydrolysis and Maleic Acid and Aluminum Chloride Catalytic Conversion. <i>Energy & Fuels</i> , 2019, 33, 6429-6435.	5.1	9
27	Concentrated HCl Catalyzed 5-(Chloromethyl)furfural Production from Corn Stover of Varying Particle Sizes. <i>Bioenergy Research</i> , 2017, 10, 1018-1024.	3.9	8
28	Engineering functional hydrochar based catalyst with corn stover and model components for efficient glucose isomerization. <i>Energy</i> , 2022, 249, 123668.	8.8	8
29	Catalytic valorization of lignocellulosics: from bulk biofuels to value-added chemicals. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 592-608.	3.7	7
30	Insights into the glucose isomerization mechanism of Al-hydrochar catalyst probed by Al-oxide species transformation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106721.	6.7	7
31	Conversion of glucose to 5-hydroxymethyl furfural in water-acetonitrile-dimethyl sulfoxide solvent with aluminum on activated carbon and maleic acid. <i>Industrial Crops and Products</i> , 2021, 174, 114220.	5.2	7
32	Facile one-pot synthesis of functional hydrochar catalyst for biomass valorization. <i>Fuel</i> , 2022, 315, 123172.	6.4	7
33	Selective Aerobic Oxidation of C ₃ -C-H Bonds Catalyzed by Yeast-Derived Nitrogen, Phosphorus, and Oxygen Codoped Carbon Materials. <i>Journal of Organic Chemistry</i> , 2022, 87, 3978-3988.	3.2	6
34	Bifunctional Fe ₃ O ₄ nanoparticles as magnet and inducer in bioextruded fabrication of starch-based composite with hierarchical pore architecture. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 876-886.	7.5	3
35	Mechanistic investigation of cellulose formate to 5-hydroxymethylfurfural conversion in DMSO-H ₂ O. <i>Journal of Molecular Liquids</i> , 2022, 348, 118471.	4.9	3
36	Investigation of cascade valorization of <i>Pistia stratiotes</i> L. by hydrothermal treatment. <i>Fuel</i> , 2022, 324, 124473.	6.4	1

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37	Biohythane production from tofu processing residue via two-stage anaerobic digestion: operational conditions and microbial community dynamics. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5469-5488.	4.6	1
38	Bioenergy and Biomass Utilization. <i>BioMed Research International</i> , 2015, 2015, 1-2.	1.9	0