

Jian Xu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,973
citations

218677

26
h-index

254184

43
g-index

58
all docs

58
docs citations

58
times ranked

2763
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave irradiation – A green and efficient way to pretreat biomass. <i>Bioresource Technology</i> , 2016, 199, 34-41.	9.6	177
2	Simultaneous saccharification and fermentation of steam exploded wheat straw pretreated with alkaline peroxide. <i>Process Biochemistry</i> , 2008, 43, 1462-1466.	3.7	124
3	Genomic Foundation of Starch-to-Lipid Switch in Oleaginous <i>Chlorella</i> spp.. <i>Plant Physiology</i> , 2015, 169, 2444-2461.	4.8	111
4	Thermal regime of a thermokarst lake and its influence on permafrost, Beiluhe Basin, Qinghai-Tibet Plateau. <i>Permafrost and Periglacial Processes</i> , 2010, 21, 315-324.	3.4	96
5	Lignin-carbohydrate complexes (LCCs) and its role in biorefinery. <i>Journal of Cleaner Production</i> , 2020, 253, 120076.	9.3	83
6	A novel combined pretreatment of ball milling and microwave irradiation for enhancing enzymatic hydrolysis of microcrystalline cellulose. <i>Bioresource Technology</i> , 2013, 130, 81-87.	9.6	80
7	Bioactivity of fucoidan extracted from <i>Laminaria japonica</i> using a novel procedure with high yield. <i>Food Chemistry</i> , 2018, 245, 911-918.	8.2	74
8	Optimization of microwave pretreatment on wheat straw for ethanol production. <i>Biomass and Bioenergy</i> , 2011, 35, 3859-3864.	5.7	71
9	Pretreatment on <i>Miscanthus lutarioriparius</i> by liquid hot water for efficient ethanol production. <i>Biotechnology for Biofuels</i> , 2013, 6, 76.	6.2	70
10	pH pre-corrected liquid hot water pretreatment on corn stover with high hemicellulose recovery and low inhibitors formation. <i>Bioresource Technology</i> , 2014, 153, 292-299.	9.6	65
11	Microwave-assisted conversion of microcrystalline cellulose to 5-hydroxymethylfurfural catalyzed by ionic liquids. <i>Bioresource Technology</i> , 2014, 162, 358-364.	9.6	62
12	Comparison on structural modification of industrial lignin by wet ball milling and ionic liquid pretreatment. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 6, 1-7.	4.4	57
13	Liquid hot water pretreatment on different parts of cotton stalk to facilitate ethanol production. <i>Bioresource Technology</i> , 2015, 176, 175-180.	9.6	56
14	Bioconversion of different sizes of microcrystalline cellulose pretreated by microwave irradiation with/without NaOH. <i>Applied Energy</i> , 2014, 117, 142-148.	10.1	54
15	Enzymatic hydrolysis and fermentability of corn stover pretreated by lactic acid and/or acetic acid. <i>Journal of Biotechnology</i> , 2009, 139, 300-305.	3.8	51
16	Temperature control at different bed depths in a novel solid-state fermentation system with two dynamic changes of air. <i>Biochemical Engineering Journal</i> , 2005, 23, 117-122.	3.6	49
17	Optimization of microwave-assisted calcium chloride pretreatment of corn stover. <i>Bioresource Technology</i> , 2013, 127, 112-118.	9.6	44
18	Efficient CO ₂ capture by a novel deep eutectic solvent through facile, one-pot synthesis with low energy consumption and feasible regeneration. <i>Science of the Total Environment</i> , 2020, 705, 135798.	8.0	41

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19	The effect of non-structural components and lignin on hemicellulose extraction. <i>Bioresource Technology</i> , 2016, 214, 755-760.	9.6	40
20	Screening of acidic and alkaline pretreatments for walnut shell and corn stover biorefining using two way heterogeneity evaluation. <i>Renewable Energy</i> , 2019, 132, 950-958.	8.9	39
21	One-pot conversion of disaccharide into 5-hydroxymethylfurfural catalyzed by imidazole ionic liquid. <i>Scientific Reports</i> , 2016, 6, 26067.	3.3	34
22	Treatment of different parts of corn stover for high yield and lower polydispersity lignin extraction with high-boiling alkaline solvent. <i>Bioresource Technology</i> , 2018, 249, 737-743.	9.6	32
23	Microwave Pretreatment. , 2015, , 157-172.		31
24	A new correction method for determination on carbohydrates in lignocellulosic biomass. <i>Bioresource Technology</i> , 2013, 138, 373-376.	9.6	29
25	Ultrasensitive micro/nanocrack-based graphene nanowall strain sensors derived from the substrate's Poisson's ratio effect. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10310-10317.	10.3	28
26	Investigation of acetic acid-catalyzed hydrothermal pretreatment on corn stover. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 509-516.	3.6	27
27	Feasibility of Hydrothermal Pretreatment on Maize Silage for Bioethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 33-42.	2.9	27
28	A novel stepwise pretreatment on corn stalk by alkali deacetylation and liquid hot water for enhancing enzymatic hydrolysis and energy utilization efficiency. <i>Bioresource Technology</i> , 2016, 209, 115-124.	9.6	27
29	Ethanol production from hydrothermal pretreated corn stover with a loop reactor. <i>Biomass and Bioenergy</i> , 2010, 34, 334-339.	5.7	24
30	Changes on structural properties of biomass pretreated by combined deacetylation with liquid hot water and its effect on enzymatic hydrolysis. <i>Bioresource Technology</i> , 2016, 220, 448-456.	9.6	23
31	Effect of acetylation/deacetylation on enzymatic hydrolysis of corn stalk. <i>Biomass and Bioenergy</i> , 2014, 71, 294-298.	5.7	22
32	Effects of Impurities in Alkali-Extracted Xylan on Its Enzymatic Hydrolysis to Produce Xylo-Oligosaccharides. <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 740-752.	2.9	21
33	Improved bioethanol production from corn stover by alkali pretreatment with a novel pilot-scale continuous microwave irradiation reactor. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 493-502.	2.6	20
34	Microwave-Assisted Conversion of Lignin. <i>Biofuels and Biorefineries</i> , 2015, , 61-82.	0.5	17
35	Polyurethane foams from alkaline lignin-based polyether polyol. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	16
36	A simple coupled ANNs-RSM approach in modeling product distribution of Fischer-Tropsch synthesis using a microchannel reactor with Ru-promoted Co/Al ₂ O ₃ catalyst. <i>International Journal of Energy Research</i> , 2020, 44, 1046-1061.	4.5	16

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37	Activated mitochondrial apoptosis in hESCs after dissociation involving the PKA/p-p53/Bax signaling pathway. <i>Experimental Cell Research</i> , 2018, 369, 226-233.	2.6	14
38	Structural characterizations of lignins extracted under same severity using different acids. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 204-212.	7.5	13
39	Effect of elastic and thermal mismatch on push-in mechanism and shear strength measurement of fiber/matrix interface. <i>Composite Interfaces</i> , 2020, 27, 921-935.	2.3	12
40	C1 gas protein: A potential protein substitute for advancing aquaculture sustainability. <i>Reviews in Aquaculture</i> , 2023, 15, 1179-1197.	9.0	12
41	Structural insight into a GH1 β -glucosidase from the oleaginous microalga, <i>Nannochloropsis oceanica</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 170, 196-206.	7.5	10
42	Recovery of arabinan in acetic acid-catalyzed hydrothermal pretreatment on corn stover. <i>Biomass and Bioenergy</i> , 2009, 33, 1660-1663.	5.7	9
43	Biopolyol preparation from liquefaction of grape seeds. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	9
44	Optimization of ethanol production from hot-water extracts of sugar maple chips. <i>Renewable Energy</i> , 2009, 34, 2353-2356.	8.9	8
45	Synergistic effect of acidity balance and hydrothermal pretreatment severity on alkali extraction of hemicelluloses from corn stalk. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 459-468.	4.6	8
46	A Novel Stepwise Recovery Strategy of Cellulase Adsorbed to the Residual Substrate after Hydrolysis of Steam Exploded Wheat Straw. <i>Applied Biochemistry and Biotechnology</i> , 2007, 143, 93-100.	2.9	6
47	Miscibility and Crystallization Behavior of Poly (Ethylene Terephthalate)/Phosphate Glass Hybrids. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 1039-1050.	1.0	5
48	Numerical and experimental investigations for an air cannon optimization. <i>Science China Technological Sciences</i> , 2011, 54, 345-351.	4.0	4
49	Robust Computation of 3D Apollonius Diagrams. <i>Computer Graphics Forum</i> , 2020, 39, 43-55.	3.0	4
50	Structure and integrity of sequentially extracted lignin during poplar (alkaline) pretreatment. <i>Process Biochemistry</i> , 2022, 117, 198-208.	3.7	4
51	Two magma fractionation paths for continental crust growth: Insights from the adakite-like and normal-arc granites in the Ailaoshan fold belt (SW Yunnan, China). <i>Bulletin of the Geological Society of America</i> , 2022, 134, 2986-3002.	3.3	3
52	Ethanol-Assisted Hydrothermal Liquefaction of Poplar Using Fe-Co/Al ₂ O ₃ as Catalyst. <i>Energies</i> , 2022, 15, 3057.	3.1	3
53	Identification of High $\delta^{18}\text{O}$ Adakite-Like Granites in SE Tibet: Implication for Diapiric Relamination of Subducted Sediments. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
54	Fundamentals of Lignin-Carbohydrate Complexes and Its Effect on Biomass Utilization. , 2021, , 133-155.		2

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55	High-Temperature Resistant Polyborosilazanes with Tailored Structures. <i>Polymers</i> , 2021, 13, 467.	4.5	2
56	Improving xylo-oligosaccharides yield from corn stalk with stepwise enzymolysis. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 3863-3869.	4.6	2
57	Polysilsesquioxane Nanosheets Synthesized in Confined Environment. <i>Macromolecular Rapid Communications</i> , 2003, 24, 676-680.	3.9	1
58	Polyurethane foam from grape-seed-based polyol. <i>Green Materials</i> , 0, , 1-8.	2.1	1