

Jian Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,500
citations

279487

23
h-index

288905

40
g-index

41
all docs

41
docs citations

41
times ranked

2730
citing authors

#	ARTICLE	IF	CITATIONS
1	Helically agitated mixing in dry dilute acid pretreatment enhances the bioconversion of corn stover into ethanol. <i>Biotechnology for Biofuels</i> , 2014, 7, 1.	6.2	504
2	Simultaneous saccharification and ethanol fermentation at high corn stover solids loading in a helical stirring bioreactor. <i>Biotechnology and Bioengineering</i> , 2010, 105, 718-728.	1.7	217
3	Cost evaluation of cellulase enzyme for industrial-scale cellulosic ethanol production based on rigorous Aspen Plus modeling. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 133-140.	1.7	201
4	Biodetoxification of toxins generated from lignocellulose pretreatment using a newly isolated fungus, <i>Amorphotheca resinae</i> ZN1, and the consequent ethanol fermentation. <i>Biotechnology for Biofuels</i> , 2010, 3, 26.	6.2	167
5	Dry pretreatment of lignocellulose with extremely low steam and water usage for bioethanol production. <i>Bioresource Technology</i> , 2011, 102, 4480-4488.	4.8	131
6	Analysis of biodegradation performance of furfural and 5-hydroxymethylfurfural by <i>Amorphotheca resinae</i> ZN1. <i>Biotechnology for Biofuels</i> , 2014, 7, 51.	6.2	100
7	Acceleration of biodetoxification on dilute acid pretreated lignocellulose feedstock by aeration and the consequent ethanol fermentation evaluation. <i>Biotechnology for Biofuels</i> , 2016, 9, 19.	6.2	89
8	Dry dilute acid pretreatment by co-currently feeding of corn stover feedstock and dilute acid solution without impregnation. <i>Bioresource Technology</i> , 2014, 158, 360-364.	4.8	86
9	Simultaneous saccharification and high titer lactic acid fermentation of corn stover using a newly isolated lactic acid bacterium <i>Pediococcus acidilactici</i> DQ2. <i>Bioresource Technology</i> , 2013, 135, 481-489.	4.8	84
10	High titer L-lactic acid production from corn stover with minimum wastewater generation and techno-economic evaluation based on Aspen plus modeling. <i>Bioresource Technology</i> , 2015, 198, 803-810.	4.8	69
11	Dry biorefining maximizes the potentials of simultaneous saccharification and co-fermentation for cellulosic ethanol production. <i>Biotechnology and Bioengineering</i> , 2018, 115, 60-69.	1.7	69
12	Engineering wild-type robust <i>Pediococcus acidilactici</i> strain for high titer l- and d-lactic acid production from corn stover feedstock. <i>Journal of Biotechnology</i> , 2016, 217, 112-121.	1.9	68
13	High tolerance and physiological mechanism of <i>Zymomonas mobilis</i> to phenolic inhibitors in ethanol fermentation of corncob residue. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1770-1782.	1.7	67
14	Inhibitor analysis and adaptive evolution of <i>Saccharomyces cerevisiae</i> for simultaneous saccharification and ethanol fermentation from industrial waste corncob residues. <i>Bioresource Technology</i> , 2014, 157, 6-13.	4.8	64
15	High ethanol fermentation performance of the dry dilute acid pretreated corn stover by an evolutionarily adapted <i>Saccharomyces cerevisiae</i> strain. <i>Bioresource Technology</i> , 2015, 189, 399-404.	4.8	54
16	Simultaneous saccharification and co-fermentation of dry diluted acid pretreated corn stover at high dry matter loading: Overcoming the inhibitors by non-tolerant yeast. <i>Bioresource Technology</i> , 2015, 198, 39-46.	4.8	49
17	A modified method for calculating practical ethanol yield at high lignocellulosic solids content and high ethanol titer. <i>Bioresource Technology</i> , 2012, 116, 74-79.	4.8	40
18	Simultaneous Saccharification and Ethanol Fermentation of Corn Stover at High Temperature and High Solids Loading by a Thermotolerant Strain <i>Saccharomyces cerevisiae</i> DQ1. <i>Bioenergy Research</i> , 2012, 5, 1020-1026.	2.2	39

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19	De-ashing treatment of corn stover improves the efficiencies of enzymatic hydrolysis and consequent ethanol fermentation. <i>Bioresource Technology</i> , 2014, 169, 552-558.	4.8	36
20	Long term storage of dilute acid pretreated corn stover feedstock and ethanol fermentability evaluation. <i>Bioresource Technology</i> , 2016, 201, 355-359.	4.8	30
21	Rheological characterization and CFD modeling of corn stover water mixing system at high solids loading for dilute acid pretreatment. <i>Biochemical Engineering Journal</i> , 2014, 90, 324-332.	1.8	29
22	Visualizing plant cell wall changes proves the superiority of hydrochloric acid over sulfuric acid catalyzed l ³ -valerolactone pretreatment. <i>Chemical Engineering Journal</i> , 2021, 412, 128660.	6.6	26
23	Heterozygous diploid structure of <i>Amorphotheca resinae</i> ZN1 contributes efficient biodetoxification on solid pretreated corn stover. <i>Biotechnology for Biofuels</i> , 2019, 12, 126.	6.2	24
24	A preliminary study on l-lysine fermentation from lignocellulose feedstock and techno-economic evaluation. <i>Bioresource Technology</i> , 2019, 271, 196-201.	4.8	24
25	Rheology evolution and CFD modeling of lignocellulose biomass during extremely high solids content pretreatment. <i>Biochemical Engineering Journal</i> , 2016, 105, 412-419.	1.8	23
26	Facilitation of L-Lactic Acid Fermentation by Lignocellulose Biomass Rich in Vitamin B Compounds. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 7082-7086.	2.4	23
27	An alternative feedstock of corn meal for industrial fuel ethanol production: Delignified corncob residue. <i>Bioresource Technology</i> , 2014, 167, 555-559.	4.8	21
28	Elevating fermentation yield of cellulosic lactic acid in calcium lactate form from corn stover feedstock. <i>Industrial Crops and Products</i> , 2018, 126, 415-420.	2.5	21
29	Itaconic acid fermentation using activated charcoal-treated corn stover hydrolysate and process evaluation based on Aspen plus model. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 463-470.	2.9	20
30	On-site measurement and modeling of rheological property of corn stover hydrolysate at high solids content. <i>Biochemical Engineering Journal</i> , 2016, 107, 61-65.	1.8	18
31	Antibacterial Peptide Secreted by <i>Pediococcus acidilactici</i> Enables Efficient Cellulosic Open L-Lactic Acid Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9254-9262.	3.2	16
32	Utilization of dry distiller's grain and solubles as nutrient supplement in the simultaneous saccharification and ethanol fermentation at high solids loading of corn stover. <i>Biotechnology Letters</i> , 2011, 33, 273-276.	1.1	12
33	In-Situ Vacuum Distillation of Ethanol Helps To Recycle Cellulase and Yeast during SSF of Delignified Corncob Residues. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11676-11685.	3.2	12
34	Cellulosic Ethanol Fermentation Using <i>Saccharomyces cerevisiae</i> Seeds Cultured by Pretreated Corn Stover Material. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 3173-3183.	1.4	11
35	Process development of short-chain polyols synthesis from corn stover by combination of enzymatic hydrolysis and catalytic hydrogenolysis. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2014, 3, 15-20.	2.1	10
36	Reactors for High Solid Loading Pretreatment of Lignocellulosic Biomass. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 152, 75-90.	0.6	10

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37	Year-Round Storage Operation of Three Major Agricultural Crop Residue Biomasses by Performing Dry Acid Pretreatment at Regional Collection Depots. ACS Sustainable Chemistry and Engineering, 2021, 9, 4722-4734.	3.2	10
38	Reduction of Reactor Corrosion by Eliminating Liquid-Phase Existence in Dry Dilute Acid Pretreatment of Corn Stover. Energy & Fuels, 2017, 31, 6140-6144.	2.5	8
39	Improved cellulosic ethanol production from corn stover with a low cellulase input using a β -glucosidase-producing yeast following a dry biorefining process. Bioprocess and Biosystems Engineering, 2019, 42, 297-304.	1.7	8
40	Lower pressure heating steam is practical for the distributed dry dilute sulfuric acid pretreatment. Bioresource Technology, 2017, 238, 744-748.	4.8	5
41	Lignocellulose Pretreatment Using Acid as Catalyst. , 2018, , 1-14.		5