

Xiaowen Chen

List of Publications by Year in Descending Order

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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.

37
papers

1,522
citations

22
h-index

39
g-index

39
ext. papers

1,801
ext. citations

8.7
avg, IF

4.51
L-index

#	Paper	IF	Citations
37	Iron incorporation both intra- and extra-cellularly improves the yield and saccharification of switchgrass (<i>Panicum virgatum</i> L.) biomass. <i>Biotechnology for Biofuels</i> , 2021 , 14, 55	7.8	
36	Modeling the Disc Refining of Lignocellulosic Biomass toward Reduced Biofuel Production Cost and Greenhouse Gas Emissions: Energy Consumption Prediction and Validation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9717-9726	8.3	1
35	Controlling bacterial contamination during fuel ethanol fermentation using thermochemically depolymerized lignin bio-oils. <i>Green Chemistry</i> , 2021 , 23, 6477-6489	10	0
34	Disruption of the Gene Enhances Cell Growth and Reduces the Metabolic Burden in Cellulase-Expressing and Lipid-Accumulating .. <i>Frontiers in Microbiology</i> , 2021 , 12, 757741	5.7	0
33	Ferrous and Ferric Ion-Facilitated Dilute Acid Pretreatment of Lignocellulosic Biomass under Anaerobic or Aerobic Conditions: Observations of Fe Valence Interchange and the Role of Fenton Reaction. <i>Molecules</i> , 2020 , 25,	4.8	2
32	Deacetylation and Mechanical Refining (DMR) and Deacetylation and Dilute Acid (DDA) Pretreatment of Corn Stover, Switchgrass, and a 50:50 Corn Stover/Switchgrass Blend. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6734-6743	8.3	6
31	Electrical decoupling of microbial electrochemical reactions enables spontaneous H ₂ evolution. <i>Energy and Environmental Science</i> , 2020 , 13, 495-502	35.4	13
30	Deep Eutectic Solvent Extraction of High-Purity Lignin from a Corn Stover Hydrolysate. <i>ChemSusChem</i> , 2020 , 13, 4678-4690	8.3	12
29	Antimicrobial Properties of Corn Stover Lignin Fractions Derived from Catalytic Transfer Hydrogenolysis in Supercritical Ethanol with a Ru/C Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18455-18467	8.3	3
28	Microbial electrochemical treatment of biorefinery black liquor and resource recovery. <i>Green Chemistry</i> , 2019 , 21, 1258-1266	10	21
27	Simultaneous upgrading of biomass-derived sugars to HMF/furfural via enzymatically isomerized ketose intermediates. <i>Biotechnology for Biofuels</i> , 2019 , 12, 253	7.8	11
26	Kinetics and Rheological Behavior of Higher Solid (Solids >20%) Enzymatic Hydrolysis Reactions Using Dilute Acid Pretreated, Deacetylation and Disk Refined, and Deacetylation and Mechanical Refined (DMR) Corn Stover Slurries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1633-1641	8.3	8
25	Conversion of corn stover hydrolysates to acids: comparison between <i>Clostridium carboxidivorans</i> P7 and microbial communities developed from lake sediment and an anaerobic digester. <i>Biomass Conversion and Biorefinery</i> , 2018 , 8, 169-178	2.3	2
24	Kinetic Modelling and Experimental Studies for the Effects of Fe ²⁺ Ions on Xylan Hydrolysis with Dilute-Acid Pretreatment and Subsequent Enzymatic Hydrolysis. <i>Catalysts</i> , 2018 , 8, 39	4	12
23	One-Pot Process for Hydrodeoxygenation of Lignin to Alkanes Using Ru-Based Bimetallic and Bifunctional Catalysts Supported on Zeolite Y. <i>ChemSusChem</i> , 2017 , 10, 1846-1856	8.3	88
22	Sweet sorghum bagasse and corn stover serving as substrates for producing sophorolipids. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 353-362	4.2	25
21	Use of mechanical refining to improve the production of low-cost sugars from lignocellulosic biomass. <i>Bioresource Technology</i> , 2016 , 199, 59-67	11	35

20	Peracetic Acid Depolymerization of Biorefinery Lignin for Production of Selective Monomeric Phenolic Compounds. <i>Chemistry - A European Journal</i> , 2016 , 22, 10884-91	4.8	31
19	Improving Sugar Yields and Reducing Enzyme Loadings in the Deacetylation and Mechanical Refining (DMR) Process through Multistage Disk and Szego Refining and Corresponding Techno-Economic Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 324-333	8.3	28
18	Enhanced lipid production by <i>Rhodospiridium toruloides</i> using different fed-batch feeding strategies with lignocellulosic hydrolysate as the sole carbon source. <i>Biotechnology for Biofuels</i> , 2016 , 9, 130	7.8	97
17	Base-Catalyzed Depolymerization of Biorefinery Lignins. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1474-1486	8.3	125
16	DMR (deacetylation and mechanical refining) processing of corn stover achieves high monomeric sugar concentrations (230 g L ⁻¹) during enzymatic hydrolysis and high ethanol concentrations (>10% v/v) during fermentation without hydrolysate purification or concentration. <i>Energy and Environmental Science</i> , 2016 , 9, 1237-1245	35.4	117
15	Metabolic engineering of <i>Zymomonas mobilis</i> for 2,3-butanediol production from lignocellulosic biomass sugars. <i>Biotechnology for Biofuels</i> , 2016 , 9, 189	7.8	77
14	Biomass-derived lignin to jet fuel range hydrocarbons via aqueous phase hydrodeoxygenation. <i>Green Chemistry</i> , 2015 , 17, 5131-5135	10	108
13	Techno-economic analysis of the deacetylation and disk refining process: characterizing the effect of refining energy and enzyme usage on minimum sugar selling price and minimum ethanol selling price. <i>Biotechnology for Biofuels</i> , 2015 , 8, 173	7.8	26
12	Noble-metal catalyzed hydrodeoxygenation of biomass-derived lignin to aromatic hydrocarbons. <i>Green Chemistry</i> , 2014 , 16, 897	10	116
11	Effect of mechanical disruption on the effectiveness of three reactors used for dilute acid pretreatment of corn stover Part 2: morphological and structural substrate analysis. <i>Biotechnology for Biofuels</i> , 2014 , 7, 47	7.8	48
10	Effect of mechanical disruption on the effectiveness of three reactors used for dilute acid pretreatment of corn stover Part 1: chemical and physical substrate analysis. <i>Biotechnology for Biofuels</i> , 2014 , 7, 57	7.8	37
9	Heterologous expression of xylanase enzymes in lipogenic yeast <i>Yarrowia lipolytica</i> . <i>PLoS ONE</i> , 2014 , 9, e111443	3.7	29
8	A highly efficient dilute alkali deacetylation and mechanical (disc) refining process for the conversion of renewable biomass to lower cost sugars. <i>Biotechnology for Biofuels</i> , 2014 , 7, 98	7.8	67
7	Comparison of different mechanical refining technologies on the enzymatic digestibility of low severity acid pretreated corn stover. <i>Bioresource Technology</i> , 2013 , 147, 401-408	11	53
6	Effect of pelleting on the recalcitrance and bioconversion of dilute-acid pretreated corn stover under low- and high-solids conditions. <i>Biofuels</i> , 2013 , 4, 271-284	2	28
5	The impacts of deacetylation prior to dilute acid pretreatment on the bioethanol process. <i>Biotechnology for Biofuels</i> , 2012 , 5, 8	7.8	114
4	Improved ethanol yield and reduced Minimum Ethanol Selling Price (MESP) by modifying low severity dilute acid pretreatment with deacetylation and mechanical refining: 1) Experimental. <i>Biotechnology for Biofuels</i> , 2012 , 5, 60	7.8	50
3	Improved Xylan Hydrolysis of Corn Stover by Deacetylation with High Solids Dilute Acid Pretreatment. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 70-76	3.9	38

- 2 Kinetics and mechanism of autohydrolysis of hardwoods. *Bioresource Technology*, **2010**, 101, 7812-9 11 85
- 1 Role of peracetic acid on the disruption of lignin packing structure and its consequence on lignin depolymerisation. *Green Chemistry*, 10 1