

Caixia Wan

List of Publications by Year in descending order

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39
papers

3,036
citations

218381

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301761

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39
all docs

39
docs citations

39
times ranked

3398
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Entrapment of Polymers by Pyrogallol[4]arenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 693-698.	6.6	7
2	Biomass-derived porous graphene for electrochemical sensing of dopamine. <i>RSC Advances</i> , 2021, 11, 15410-15415.	1.7	33
3	Microbial Conversion of Lignin-Based Compounds into Carotenoids by Rhodococci. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 3442-3453.	1.4	5
4	Efficient biosynthesis of lipids from concentrated biomass hydrolysates by an oleaginous yeast. <i>Bioresource Technology Reports</i> , 2021, 15, 100712.	1.5	2
5	Revealing the role of hydrogen bonding interactions and supramolecular complexes in lignin dissolution by deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2021, 344, 117779.	2.3	15
6	Insights into Structural Changes of Lignin toward Tailored Properties during Deep Eutectic Solvent Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9783-9793.	3.2	72
7	Laser-Induced Graphene Derived from Kraft Lignin for Flexible Supercapacitors. <i>ACS Omega</i> , 2020, 5, 14611-14618.	1.6	56
8	Techno-economic analysis of an integrated biorefinery strategy based on one-pot biomass fractionation and furfural production. <i>Journal of Cleaner Production</i> , 2020, 260, 120837.	4.6	72
9	Lignin extraction and upgrading using deep eutectic solvents. <i>Industrial Crops and Products</i> , 2020, 147, 112241.	2.5	159
10	Techno-economic analysis of co-production of 2,3-butanediol, furfural, and technical lignin via biomass processing based on deep eutectic solvent pretreatment. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 326-343.	1.9	35
11	Transforming lignin into porous graphene <i>via</i> direct laser writing for solid-state supercapacitors. <i>RSC Advances</i> , 2019, 9, 22713-22720.	1.7	52
12	One-pot selective conversion of lignocellulosic biomass into furfural and co-products using aqueous choline chloride/methyl isobutyl ketone biphasic solvent system. <i>Bioresource Technology</i> , 2019, 289, 121708.	4.8	45
13	A novel deep eutectic solvent/acetone biphasic system for high-yield furfural production. <i>Bioresource Technology Reports</i> , 2019, 8, 100318.	1.5	16
14	Effects of alkaline hydrogen peroxide treatment on cellulose accessibility of switchgrass pretreated by acidic deep eutectic solvent. <i>Cellulose</i> , 2019, 26, 9439-9446.	2.4	17
15	Ternary deep eutectic solvents for effective biomass deconstruction at high solids and low enzyme loadings. <i>Bioresource Technology</i> , 2019, 279, 281-286.	4.8	94
16	Effect of Dibasic Calcium Phosphate Incorporation on Cellulose Nanocrystal/Chitosan Hydrogel Properties for the Treatment of Vertebral Compression Fractures. <i>AAPS Journal</i> , 2019, 21, 41.	2.2	11
17	Inductive co-crosslinking of cellulose nanocrystal/chitosan hydrogels for the treatment of vertebral compression fractures. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 88-98.	3.6	32
18	Deep eutectic solvent pretreatment enabling full utilization of switchgrass. <i>Bioresource Technology</i> , 2018, 263, 40-48.	4.8	141

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19	Aqueous Choline Chloride: A Novel Solvent for Switchgrass Fractionation and Subsequent Hemicellulose Conversion into Furfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6910-6919.	3.2	56
20	Ultrafast fractionation of lignocellulosic biomass by microwave-assisted deep eutectic solvent pretreatment. <i>Bioresource Technology</i> , 2018, 250, 532-537.	4.8	227
21	High-Solid Lignocellulose Processing Enabled by Natural Deep Eutectic Solvent for Lignin Extraction and Industrially Relevant Production of Renewable Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12205-12216.	3.2	137
22	Biorefinery Lignin to Renewable Chemicals via Sequential Fractionation and Depolymerization. <i>Waste and Biomass Valorization</i> , 2017, 8, 393-400.	1.8	10
23	Biological valorization strategies for converting lignin into fuels and chemicals. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 610-621.	8.2	206
24	Co-fermentation of lignocellulose-based glucose and inhibitory compounds for lipid synthesis by <i>Rhodococcus jostii</i> RHA1. <i>Process Biochemistry</i> , 2017, 57, 159-166.	1.8	15
25	Non-sterile fermentations for the economical biochemical conversion of renewable feedstocks. <i>Biotechnology Letters</i> , 2017, 39, 1765-1777.	1.1	29
26	Effects of Salts Contained in Lignocellulose-Derived Sugar Streams on Microbial Lipid Production. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 1362-1374.	1.4	7
27	Sigma Factor Regulated Cellular Response in a Non-solvent Producing <i>Clostridium beijerinckii</i> Degenerated Strain: A Comparative Transcriptome Analysis. <i>Frontiers in Microbiology</i> , 2017, 8, 23.	1.5	5
28	Transcriptional analysis of degenerate strain <i>Clostridium beijerinckii</i> DG-8052 reveals a pleiotropic response to CaCO ₃ -associated recovery of solvent production. <i>Scientific Reports</i> , 2016, 6, 38818.	1.6	12
29	Reducing biomass recalcitrance via mild sodium carbonate pretreatment. <i>Bioresource Technology</i> , 2016, 209, 386-390.	4.8	60
30	Carboxylic acid production from brewer's spent grain via mixed culture fermentation. <i>Bioresource Technology</i> , 2015, 182, 179-183.	4.8	56
31	Synthesis of Aromatic-Rich Gasoline-Range Hydrocarbons from Biomass-Derived Syngas over a Pd-Promoted Fe/HZSM-5 Catalyst. <i>Energy & Fuels</i> , 2014, 28, 2027-2034.	2.5	52
32	Fungal pretreatment of lignocellulosic biomass. <i>Biotechnology Advances</i> , 2012, 30, 1447-1457.	6.0	426
33	Co-production of Lactic Acid and <i>Lactobacillus rhamnosus</i> Cells from Whey Permeate with Nutrient Supplements. <i>Food and Bioprocess Technology</i> , 2012, 5, 1278-1286.	2.6	20
34	Effect of hot water extraction and liquid hot water pretreatment on the fungal degradation of biomass feedstocks. <i>Bioresource Technology</i> , 2011, 102, 9788-9793.	4.8	67
35	Liquid hot water and alkaline pretreatment of soybean straw for improving cellulose digestibility. <i>Bioresource Technology</i> , 2011, 102, 6254-6259.	4.8	171
36	Effectiveness of microbial pretreatment by <i>Ceriporiopsis subvermispota</i> on different biomass feedstocks. <i>Bioresource Technology</i> , 2011, 102, 7507-7512.	4.8	155

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37	Semi-continuous anaerobic co-digestion of thickened waste activated sludge and fat, oil and grease. Waste Management, 2011, 31, 1752-1758.	3.7	178
38	Microbial pretreatment of corn stover with Ceriporiopsis subvermispota for enzymatic hydrolysis and ethanol production. Bioresource Technology, 2010, 101, 6398-6403.	4.8	200
39	Succinic Acid Production from Cheese Whey using Actinobacillus succinogenes 130 Z. Applied Biochemistry and Biotechnology, 2008, 145, 111-119.	1.4	83