Zhu Chen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ultrafast fractionation of lignocellulosic biomass by microwave-assisted deep eutectic solvent pretreatment. Bioresource Technology, 2018, 250, 532-537.	9.6	227
2	Biological valorization strategies for converting lignin into fuels and chemicals. Renewable and Sustainable Energy Reviews, 2017, 73, 610-621.	16.4	206
3	Lignin extraction and upgrading using deep eutectic solvents. Industrial Crops and Products, 2020, 147, 112241.	5.2	159
4	Deep eutectic solvent pretreatment enabling full utilization of switchgrass. Bioresource Technology, 2018, 263, 40-48.	9.6	141
5	High-Solid Lignocellulose Processing Enabled by Natural Deep Eutectic Solvent for Lignin Extraction and Industrially Relevant Production of Renewable Chemicals. ACS Sustainable Chemistry and Engineering, 2018, 6, 12205-12216.	6.7	137
6	Ternary deep eutectic solvents for effective biomass deconstruction at high solids and low enzyme loadings. Bioresource Technology, 2019, 279, 281-286.	9.6	94
7	Insights into Structural Changes of Lignin toward Tailored Properties during Deep Eutectic Solvent Pretreatment. ACS Sustainable Chemistry and Engineering, 2020, 8, 9783-9793.	6.7	72
8	Reducing biomass recalcitrance via mild sodium carbonate pretreatment. Bioresource Technology, 2016, 209, 386-390.	9.6	60
9	Aqueous Choline Chloride: A Novel Solvent for Switchgrass Fractionation and Subsequent Hemicellulose Conversion into Furfural. ACS Sustainable Chemistry and Engineering, 2018, 6, 6910-6919.	6.7	56
10	Hemicellulose degradation: An overlooked issue in acidic deep eutectic solvents pretreatment of lignocellulosic biomass. Industrial Crops and Products, 2022, 187, 115335.	5.2	48
11	One-pot selective conversion of lignocellulosic biomass into furfural and co-products using aqueous choline chloride/methyl isobutyl ketone biphasic solvent system. Bioresource Technology, 2019, 289, 121708.	9.6	45
12	Non-sterile fermentations for the economical biochemical conversion of renewable feedstocks. Biotechnology Letters, 2017, 39, 1765-1777.	2.2	29
13	Co-valorization of paper mill sludge and corn steep liquor for enhanced n-butanol production with Clostridium tyrobutyricum Δcat1::adhE2. Bioresource Technology, 2020, 296, 122347.	9.6	25
14	Effects of alkaline hydrogen peroxide treatment on cellulose accessibility of switchgrass pretreated by acidic deep eutectic solvent. Cellulose, 2019, 26, 9439-9446.	4.9	17
15	Co-fermentation of lignocellulose-based glucose and inhibitory compounds for lipid synthesis by Rhodococcus jostii RHA1. Process Biochemistry, 2017, 57, 159-166.	3.7	15
16	Nano on micro: tuning microbial metabolisms by nano-based artificial mediators to enhance and expand production of biochemicals. Current Opinion in Biotechnology, 2020, 64, 161-168.	6.6	11
17	Bioaldehydes and beyond: Expanding the realm of bioderived chemicals using biogenic aldehydes as platforms. Current Opinion in Chemical Biology, 2020, 59, 37-46.	6.1	10
18	Effects of Salts Contained in Lignocellulose-Derived Sugar Streams on Microbial Lipid Production. Applied Biochemistry and Biotechnology, 2017, 183, 1362-1374.	2.9	7

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#	Article	IF	CITATIONS
19	Microbial Conversion of Lignin-Based Compounds into Carotenoids by Rhodococci. Applied Biochemistry and Biotechnology, 2021, 193, 3442-3453.	2.9	5
20	Efficient biosynthesis of lipids from concentrated biomass hydrolysates by an oleaginous yeast. Bioresource Technology Reports, 2021, 15, 100712.	2.7	2