

Xu Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

909
citations

430874

18
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of lignin upon successive fractionation and esterification in polylactic acid (PLA)/lignin biocomposite. <i>International Journal of Biological Macromolecules</i> , 2022, 203, 49-57.	7.5	19
2	Preparation of Fe/N Double Doped Carbon Nanotubes from Lignin in Pennisetum as Oxygen Reduction Reaction Electrocatalysts for Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 4340-4350.	5.1	13
3	Harvesting of <i>Rhodotorula glutinis</i> via Polyaluminum Chloride or Cationic Polyacrylamide Using the Extended DLVO Theory. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 2717-2728.	2.9	1
4	GTR 2.0: gRNA-tRNA Array and Cas9-NG Based Genome Disruption and Single-Nucleotide Conversion in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 1328-1337.	3.8	10
5	Near-infrared laser 808-nm excitable palladium nano-dots loaded on graphene oxide hybrid for the antibacterial activity. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6380.	3.5	2
6	Culturing <i>Rhodotorula glutinis</i> in fermentation-friendly deep eutectic solvent extraction liquor of lignin for producing microbial lipid. <i>Bioresource Technology</i> , 2021, 337, 125475.	9.6	11
7	Simultaneously enhanced intracellular lipogenesis and β -carotene biosynthesis of <i>Rhodotorula glutinis</i> by light exposure with sodium acetate as the substrate. <i>Bioresource Technology</i> , 2020, 295, 122274.	9.6	26
8	Successive Organic Solvent Fractionation and Characterization of Heterogeneous Lignin Extracted by <i>p-Toluenesulfonic Acid</i> from Hybrid Poplar. <i>Energy & Fuels</i> , 2020, 34, 557-567.	5.1	14
9	Energy grass/polylactic acid composites and pretreatments for additive manufacturing. <i>Cellulose</i> , 2020, 27, 2669-2683.	4.9	13
10	Using β -valerolactone and toluenesulfonic acid to extract lignin efficiently with a combined hydrolysis factor and structure characteristics analysis of lignin. <i>Cellulose</i> , 2020, 27, 3581-3590.	4.9	12
11	Modeling and optimization of microbial lipid fermentation from cellulosic ethanol wastewater by <i>Rhodotorula glutinis</i> based on the support vector machine. <i>Bioresource Technology</i> , 2020, 301, 122781.	9.6	40
12	Successive organic solvent fractionation and structural characterization of lignin extracted from hybrid poplar by deep eutectic solvent for improving the homogeneity and isolating narrow fractions. <i>Renewable Energy</i> , 2020, 157, 1025-1034.	8.9	28
13	An optimum combined hydrolysis factor enhances hybrid <i>Pennisetum</i> pretreatment in bio-conversion. <i>Cellulose</i> , 2019, 26, 8439-8451.	4.9	1
14	Comparative evaluation of different carbon sources supply on simultaneous production of lipid and carotene of <i>Rhodotorula glutinis</i> with irradiation and the assessment of key gene transcription. <i>Bioresource Technology</i> , 2019, 288, 121559.	9.6	23
15	Multi-omics metabolism analysis on irradiation-induced oxidative stress to <i>Rhodotorula glutinis</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 361-374.	3.6	18
16	Microbial lipid production and organic matters removal from cellulosic ethanol wastewater through coupling oleaginous yeasts and activated sludge biological method. <i>Bioresource Technology</i> , 2018, 267, 395-400.	9.6	26
17	Using a combined hydrolysis factor to balance enzymatic saccharification and the structural characteristics of lignin during pretreatment of Hybrid poplar with a fully recyclable solid acid. <i>Bioresource Technology</i> , 2017, 238, 575-581.	9.6	41
18	Comparison of four types of energy grasses as lignocellulosic feedstock for the production of bio-ethanol. <i>Bioresource Technology</i> , 2017, 241, 424-429.	9.6	40

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19	Preparation of a Water-Based Lubricant from Lignocellulosic Biomass and Its Tribological Properties. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7858-7864.	3.7	23
20	Tannin extraction pretreatment and very high gravity fermentation of acorn starch for bioethanol production. <i>Bioresource Technology</i> , 2017, 241, 900-907.	9.6	22
21	Biodiesel preparation from microalgae lipid by two-step lipase catalysis. <i>Biocatalysis and Biotransformation</i> , 2017, 35, 329-336.	2.0	0
22	The production of bio-jet fuel from <i>Botryococcus braunii</i> liquid over a Ru/CeO ₂ catalyst. <i>RSC Advances</i> , 2016, 6, 99842-99850.	3.6	12
23	Effect of ammonium-N on malic enzyme and lipid production in <i>Rhodotorula glutinis</i> grown on monosodium glutamate wastewater. <i>Biocatalysis and Biotransformation</i> , 2016, 34, 18-23.	2.0	1
24	Mechanistically harvesting of <i>Chlorella vulgaris</i> and <i>Rhodotorula glutinis</i> via modified montmorillonoid. <i>Bioresource Technology</i> , 2016, 218, 737-742.	9.6	8
25	The effect of amino acids on lipid production and nutrient removal by <i>Rhodotorula glutinis</i> cultivation in starch wastewater. <i>Bioresource Technology</i> , 2016, 218, 712-717.	9.6	19
26	Synthesis of levulinic acid-based polyol ester and its influence on tribological behavior as a potential lubricant. <i>RSC Advances</i> , 2015, 5, 100443-100451.	3.6	21
27	Control of ATP concentration in <i>Escherichia coli</i> using synthetic small regulatory RNAs for enhanced S-adenosylmethionine production. <i>FEMS Microbiology Letters</i> , 2015, 362, fmv115.	1.8	30
28	Biodiesel production by direct transesterification of microalgal biomass with co-solvent. <i>Bioresource Technology</i> , 2015, 196, 712-715.	9.6	68
29	Manipulating multi-system of NADPH regulation in <i>Escherichia coli</i> for enhanced S-adenosylmethionine production. <i>RSC Advances</i> , 2015, 5, 41103-41111.	3.6	24
30	Synergistic effects of oleaginous yeast <i>Rhodotorula glutinis</i> and microalga <i>Chlorella vulgaris</i> for enhancement of biomass and lipid yields. <i>Bioresource Technology</i> , 2014, 164, 93-99.	9.6	70
31	Lipid and carotenoid production by <i>Rhodotorula glutinis</i> under irradiation/high-temperature and dark/low-temperature cultivation. <i>Bioresource Technology</i> , 2014, 157, 149-153.	9.6	87
32	Studies on lipid production by <i>Rhodotorula glutinis</i> fermentation using monosodium glutamate wastewater as culture medium. <i>Bioresource Technology</i> , 2008, 99, 5923-5927.	9.6	186