Xu Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1423865/publications.pdf

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32	909	430874	454955
papers	citations	18 h-index	30 g-index

32	32	32	1101
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Studies on lipid production by Rhodotorula glutinis fermentation using monosodium glutamate wastewater as culture medium. Bioresource Technology, 2008, 99, 5923-5927.	9.6	186
2	Lipid and carotenoid production by Rhodotorula glutinis under irradiation/high-temperature and dark/low-temperature cultivation. Bioresource Technology, 2014, 157, 149-153.	9.6	87
3	Synergistic effects of oleaginous yeast Rhodotorula glutinis and microalga Chlorella vulgaris for enhancement of biomass and lipid yields. Bioresource Technology, 2014, 164, 93-99.	9.6	70
4	Biodiesel production by direct transesterification of microalgal biomass with co-solvent. Bioresource Technology, 2015, 196, 712-715.	9.6	68
5	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. Bioresource Technology, 2017, 238, 575-581.	9.6	41
6	Comparison of four types of energy grasses as lignocellulosic feedstock for the production of bio-ethanol. Bioresource Technology, 2017, 241, 424-429.	9.6	40
7	Modeling and optimization of microbial lipid fermentation from cellulosic ethanol wastewater by Rhodotorula glutinis based on the support vector machine. Bioresource Technology, 2020, 301, 122781.	9.6	40
8	Control of ATP concentration inEscherichia coliusing synthetic small regulatory RNAs for enhanced S-adenosylmethionine production. FEMS Microbiology Letters, 2015, 362, fnv115.	1.8	30
9	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. Renewable Energy, 2020, 157, 1025-1034.	8.9	28
10	Microbial lipid production and organic matters removal from cellulosic ethanol wastewater through coupling oleaginous yeasts and activated sludge biological method. Bioresource Technology, 2018, 267, 395-400.	9.6	26
11	Simultaneously enhanced intracellular lipogenesis and Î²-carotene biosynthesis of Rhodotorula glutinis by light exposure with sodium acetate as the substrate. Bioresource Technology, 2020, 295, 122274.	9.6	26
12	Manipulating multi-system of NADPH regulation in Escherichia coli for enhanced S-adenosylmethionine production. RSC Advances, 2015, 5, 41103-41111.	3.6	24
13	Preparation of a Water-Based Lubricant from Lignocellulosic Biomass and Its Tribological Properties. Industrial & Engineering Chemistry Research, 2017, 56, 7858-7864.	3.7	23
14	Comparative evaluation of different carbon sources supply on simultaneous production of lipid and carotene of Rhodotorula glutinis with irradiation and the assessment of key gene transcription. Bioresource Technology, 2019, 288, 121559.	9.6	23
15	Tannin extraction pretreatment and very high gravity fermentation of acorn starch for bioethanol production. Bioresource Technology, 2017, 241, 900-907.	9.6	22
16	Synthesis of levulinic acid-based polyol ester and its influence on tribological behavior as a potential lubricant. RSC Advances, 2015, 5, 100443-100451.	3.6	21
17	The effect of amino acids on lipid production and nutrient removal by Rhodotorula glutinis cultivation in starch wastewater. Bioresource Technology, 2016, 218, 712-717.	9.6	19
18	Utilization of lignin upon successive fractionation and esterification in polylactic acid (PLA)/lignin biocomposite. International Journal of Biological Macromolecules, 2022, 203, 49-57.	7.5	19

#	Article	IF	Citations
19	Multi-omics metabolism analysis on irradiation-induced oxidative stress to Rhodotorula glutinis. Applied Microbiology and Biotechnology, 2019, 103, 361-374.	3.6	18
20	Successive Organic Solvent Fractionation and Characterization of Heterogeneous Lignin Extracted by p-Toluenesulfonic Acid from Hybrid Poplar. Energy & Fuels, 2020, 34, 557-567.	5.1	14
21	Energy grass/polylactic acid composites and pretreatments for additive manufacturing. Cellulose, 2020, 27, 2669-2683.	4.9	13
22	Preparation of Fe/N Double Doped Carbon Nanotubes from Lignin in Pennisetum as Oxygen Reduction Reaction Electrocatalysts for Zincâ€“Air Batteries. ACS Applied Energy Materials, 2022, 5, 4340-4350.	5.1	13
23	The production of bio-jet fuel from Botryococcus braunii liquid over a Ru/CeO₂catalyst. RSC Advances, 2016, 6, 99842-99850.	3.6	12
24	Using Î³-valerolactone and toluenesulfonic acid to extract lignin efficiently with a combined hydrolysis factor and structure characteristics analysis of lignin. Cellulose, 2020, 27, 3581-3590.	4.9	12
25	Culturing rhodotorula glutinis in fermentation-friendly deep eutectic solvent extraction liquor of lignin for producing microbial lipid. Bioresource Technology, 2021, 337, 125475.	9.6	11
26	GTR 2.0: gRNA-tRNA Array and Cas9-NG Based Genome Disruption and Single-Nucleotide Conversion in Saccharomyces cerevisiae. ACS Synthetic Biology, 2021, 10, 1328-1337.	3.8	10
27	Mechanistically harvesting of Chlorella vulgaris and Rhodotorula glutinis via modified montmorillonoid. Bioresource Technology, 2016, 218, 737-742.	9.6	8
28	Nearâ€infrared laser 808â€nm excitable palladium nanoâ€dots loaded on graphene oxide hybrid for the antibacterial activity. Applied Organometallic Chemistry, 2021, 35, e6380.	3.5	2
29	Effect of ammonium-N on malic enzyme and lipid production inRhodotorula glutinisgrown on monosodium glutamate wastewater. Biocatalysis and Biotransformation, 2016, 34, 18-23.	2.0	1
30	An optimum combined hydrolysis factor enhances hybrid Pennisetum pretreatment in bio-conversion. Cellulose, 2019, 26, 8439-8451.	4.9	1
31	Harvesting of Rhodotorula glutinis via Polyaluminum Chloride or Cationic Polyacrylamide Using the Extended DLVO Theory. Applied Biochemistry and Biotechnology, 2021, 193, 2717-2728.	2.9	1
32	Biodiesel preparation from microalgae lipid by two-step lipase catalysis. Biocatalysis and Biotransformation, 2017, 35, 329-336.	2.0	0