

Dongming Xie

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,219
citations

687220

13
h-index

477173

29
g-index

31
all docs

31
docs citations

31
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of omega-3 eicosapentaenoic acid by metabolic engineering of <i>Yarrowia lipolytica</i> . <i>Nature Biotechnology</i> , 2013, 31, 734-740.	9.4	470
2	Sustainable source of omega-3 eicosapentaenoic acid from metabolically engineered <i>Yarrowia lipolytica</i> : from fundamental research to commercial production. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1599-1610.	1.7	174
3	Microbial synthesis of triacetic acid lactone. <i>Biotechnology and Bioengineering</i> , 2006, 93, 727-736.	1.7	82
4	Benzene-Free Synthesis of Catechol:Â Interfacing Microbial and Chemical Catalysis. <i>Journal of the American Chemical Society</i> , 2005, 127, 2874-2882.	6.6	75
5	Metabolic engineering of an acid-tolerant yeast strain <i>Pichia kudriavzevii</i> for itaconic acid production. <i>Metabolic Engineering Communications</i> , 2020, 10, e00124.	1.9	53
6	Recent Advances in Biological Recycling of Polyethylene Terephthalate (PET) Plastic Wastes. <i>Bioengineering</i> , 2022, 9, 98.	1.6	45
7	Omegaâ€³ production by fermentation of <i>Yarrowia lipolytica</i> : From fedâ€batch to continuous. <i>Biotechnology and Bioengineering</i> , 2017, 114, 798-812.	1.7	43
8	Lycopene production from glucose, fatty acid and waste cooking oil by metabolically engineered <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2020, 155, 107488.	1.8	39
9	Integrating Cellular and Bioprocess Engineering in the Non-Conventional Yeast <i>Yarrowia lipolytica</i> for Biodiesel Production: A Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 65.	2.0	36
10	Cellular and metabolic engineering of oleaginous yeast <i>Yarrowia lipolytica</i> for bioconversion of hydrophobic substrates into highâ€value products. <i>Engineering in Life Sciences</i> , 2019, 19, 423-443.	2.0	34
11	Microbial synthesis of wax esters. <i>Metabolic Engineering</i> , 2021, 67, 428-442.	3.6	22
12	Metabolic engineering of oleaginous yeast <i>Rhodotorula toruloides</i> for overproduction of triacetic acid lactone. <i>Biotechnology and Bioengineering</i> , 2022, 119, 2529-2540.	1.7	20
13	Effect of electrolytic systems on electrochemical hydrogenation of mesophase coal tar pitch. <i>Fuel Processing Technology</i> , 2003, 80, 81-90.	3.7	18
14	Modeling of glycerol production by fermentation in different reactor states. <i>Process Biochemistry</i> , 2001, 36, 1225-1232.	1.8	12
15	Critical influence of osmotic pressure on continuous production of glycerol by an osmophilic strain of <i>Candida krusei</i> in a multistage cascade bioreactor. <i>Process Biochemistry</i> , 2002, 38, 427-432.	1.8	11
16	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1137-1140.	1.1	9
17	At-line N-linked glycan profiling for monoclonal antibodies with advanced sample preparation and high-performance liquid chromatography. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 327-333.	1.1	9
18	Understanding Consequences and Tradeoffs of Melt Processing as a Pretreatment for Enzymatic Depolymerization of Poly(ethylene terephthalate). <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100929.	2.0	9

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19	Production of glycerol by fermentation using osmophilic yeast <i>Candida krusei</i> with different starchy substrates. <i>Enzyme and Microbial Technology</i> , 2002, 30, 758-762.	1.6	8
20	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1539-1542.	1.1	8
21	Interpretable biomanufacturing process risk and sensitivity analyses for quality-by-design and stability control. <i>Naval Research Logistics</i> , 2022, 69, 461-483.	1.4	8
22	Multipulse Feed Strategy for Glycerol Fed-Batch Fermentation: A Steady-State Nonlinear Optimization Approach. <i>Applied Biochemistry and Biotechnology</i> , 2001, 95, 103-112.	1.4	5
23	Model-based optimization of temperature and feed control strategies for glycerol production by fed-batch culture of osmophilic yeast <i>Candida krusei</i> . <i>Biochemical Engineering Journal</i> , 2002, 11, 111-121.	1.8	5
24	Effect of Technological Factors on Electrochemical Hydrogenation of Lignin. <i>Canadian Journal of Chemical Engineering</i> , 2002, 80, 1-5.	0.9	5
25	Biomanufacturing of value-added products from oils or fats: A case study on cellular and fermentation engineering of <i>Yarrowia lipolytica</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 1658-1673.	1.7	5
26	Sustainable Production of Omega-3 Eicosapentaenoic Acid by Fermentation of Metabolically Engineered <i>Yarrowia lipolytica</i> . <i>Green Chemistry and Sustainable Technology</i> , 2016, , 17-33.	0.4	5
27	Effects of phosphorus and nitrogen limitations on continuous production of glycerol in a multistage cascade bioreactor by <i>Candida krusei</i> . <i>Biochemical Engineering Journal</i> , 2003, 15, 101-106.	1.8	4
28	Using an Advanced Microfermentor System for Strain Screening and Fermentation Optimization. <i>Methods in Molecular Biology</i> , 2012, 834, 217-231.	0.4	3
29	Optimization of Glycerol Fed-Batch Fermentation in Different Reactor States: A Variable Kinetic Parameter Approach. <i>Applied Biochemistry and Biotechnology</i> , 2002, 101, 131-152.	1.4	2