Xiang Zou

List of Publications by Year
in descending order

51 papers	1,182 citations	361045 20 h-index	395343 33 g-index
53 all docs	53 docs citations	53 times ranked	1129 citing authors

#	Article	IF	Citations
1	Optimization of extraction process by response surface methodology and preliminary characterization of polysaccharides from Phellinus igniarius. Carbohydrate Polymers, 2010, 80, 344-349.	5.1	148
2	Production of polymalic acid and malic acid by Aureobasidium pullulans fermentation and acid hydrolysis. Biotechnology and Bioengineering, 2013, 110, 2105-2113.	1.7	94
3	Oxygen uptake rate optimization with nitrogen regulation for erythromycin production and scale-up from 50L to 372m3 scale. Bioresource Technology, 2009, 100, 1406-1412.	4.8	67
4	Biosynthesis of polymalic acid in fermentation: advances and prospects for industrial application. Critical Reviews in Biotechnology, 2019, 39, 408-421.	5.1	55
5	Targeting the PDGF/PDGFR signaling pathway for cancer therapy: A review. International Journal of Biological Macromolecules, 2022, 202, 539-557.	3.6	55
6	Production of polymalic acid and malic acid from xylose and corncob hydrolysate by a novel Aureobasidium pullulans YJ 6â€“11 strain. Process Biochemistry, 2016, 51, 16-23.	1.8	48
7	A self-assembled, ROS-responsive Janus-prodrug for targeted therapy of inflammatory bowel disease. Journal of Controlled Release, 2019, 316, 66-78.	4.8	48
8	Crashworthiness analysis and structural optimisation of multi-cell square tubes under axial and oblique loads. International Journal of Crashworthiness, 2017, 22, 129-147.	1.1	40
9	Enhancement of erythromycin A production with feeding available nitrogen sources in erythromycin biosynthesis phase. Bioresource Technology, 2009, 100, 3358-3365.	4.8	39
10	Efficient production of polymalic acid from raw sweet potato hydrolysate with immobilized cells of <scp>Aureobasidium pullulans CCTCC M2012223</scp> in aerobic fibrous bed bioreactor. Journal of Chemical Technology and Biotechnology, 2013, 88, 1822-1827.	1.6	39
11	Metabolome- and genome-scale model analyses for engineering of Aureobasidium pullulans to enhance polymalic acid and malic acid production from sugarcane molasses. Biotechnology for Biofuels, 2018, 11, 94.	6.2	37
12	Quantitative response of cell growth and polysaccharide biosynthesis by the medicinal mushroom Phellinus linteus to NaCl in the medium. World Journal of Microbiology and Biotechnology, 2006, 22, 1129-1133.	1.7	31
13	Effects of nitrogen availability on polymalic acid biosynthesis in the yeast-like fungus Aureobasidium pullulans. Microbial Cell Factories, 2016, 15, 146.	1.9	31
14	Adaptation and Transcriptome Analysis of Aureobasidium pullulans in Corncob Hydrolysate for Increased Inhibitor Tolerance to Malic Acid Production. PLoS ONE, 2015, 10, e0121416.	1.1	27
15	The effect of Tween 80 on the polymalic acid and pullulan production by Aureobasidium pullulans CCTCC M2012223. World Journal of Microbiology and Biotechnology, 2015, 31, 219-226.	1.7	25
16	Optimization of Nutritional Factors for Exopolysaccharide Production by Submerged Cultivation of the Medicinal Mushroom Oudemansiella radicata. World Journal of Microbiology and Biotechnology, 2005, 21, 1267-1271.	1.7	24
17	Real-time fluid dynamics investigation and physiological response for erythromycin fermentation scale-up from 50ÂL to 132Âm3 fermenter. Bioprocess and Biosystems Engineering, 2012, 35, 789-800.	1.7	24
18	Endoplasmic reticulum stress mediates sulforaphane-induced apoptosis of HepG2 human hepatocellular carcinoma cells. Molecular Medicine Reports, 2017, 15, 331-338.	1.1	23

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19	Process optimization in a stirred tank bioreactor based on CFD-Taguchi method: A case study. Journal of Cleaner Production, 2019, 230, 1074-1084.	4.6	23
20	Fed-batch fermentation for hyperproduction of polysaccharide and ergosterol by medicinal mushroom Agaricus brasiliensis. Process Biochemistry, 2006, 41, 970-974.	1.8	21
21	Efficient production of polymalic acid from xylose mother liquor, an environmental waste from the xylitol industry, by a T-DNA-based mutant of Aureobasidium pullulans. Applied Microbiology and Biotechnology, 2019, 103, 6519-6527.	1.7	20
22	Application of oxygen uptake rate and response surface methodology for erythromycin production by Saccharopolyspora erythraea. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 1637-1642.	1.4	19
23	pH control strategy in a shaken minibioreactor for polysaccharide production by medicinal mushroom Phellinus linteus and its anti-hyperlipemia activity. Bioprocess and Biosystems Engineering, 2009, 32, 277-281.	1.7	19
24	Cofactor and CO2 donor regulation involved in reductive routes for polymalic acid production by Aureobasidium pullulans CCTCC M2012223. Bioprocess and Biosystems Engineering, 2014, 37, 2131-2136.	1.7	18
25	Reconstruction of a genome-scale metabolic model and in silico analysis of the polymalic acid producer Aureobasidium pullulans CCTCC M2012223. Gene, 2017, 607, 1-8.	1.0	18
26	Structure of a fucose-rich polysaccharide derived from EPS produced by Kosakonia sp. CCTCC M2018092 and its application in antibacterial film. International Journal of Biological Macromolecules, 2020, 159, 295-303.	3.6	17
27	CRISPR/Cas9-mediated efficient genome editing via protoplast-based transformation in yeast-like fungus Aureobasidium pullulans. Gene, 2019, 709, 8-16.	1.0	16
28	Effects of phytohormones on mycelial growth and exopolysaccharide biosynthesis of medicinal mushroom Pellinus linteus. Bioprocess and Biosystems Engineering, 2009, 32, 701-707.	1.7	15
29	Enhanced polymalic acid production from the glyoxylate shunt pathway under exogenous alcohol stress. Journal of Biotechnology, 2018, 275, 24-30.	1.9	15
30	Sustainable production and biomedical application of polymalic acid from renewable biomass and food processing wastes. Critical Reviews in Biotechnology, 2021, 41, 216-228.	5.1	15
31	GATAâ€type transcriptional factor Gat1 regulates nitrogen uptake and polymalic acid biosynthesis in polyextremotolerant fungus Aureobasidium pullulans. Environmental Microbiology, 2020, 22, 229-242.	1.8	14
32	Soil anammox and denitrification processes connected with N cycling genes co-supporting or contrasting under different water conditions. Environment International, 2020, 140, 105757.	4.8	14
33	Optimization of a chemically defined medium for mycelial growth and polysaccharide production by medicinal mushroom Phellinus igniarius. World Journal of Microbiology and Biotechnology, 2009, 25, 2187-2193.	1.7	13
34	Effects of Zn supplementation on the growth, amino acid composition, polysaccharide yields and anti-tumour activity of Agaricus brasiliensis. World Journal of Microbiology and Biotechnology, 2005, 21, 261-264.	1.7	12
35	An assessment of seed quality on erythromycin production by recombinant Saccharopolyspora erythraea strain. Bioresource Technology, 2011, 102, 3360-3365.	4.8	11
36	A novel rhodamine-based fluorescent pH probe for high-throughput screening of high-yield polymalic acid strains from random mutant libraries. RSC Advances, 2016, 6, 94756-94762.	1.7	10

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37	Precursor engineering and cell physiological regulation for high level rapamycin production by Streptomyces hygroscopicus. Annals of Microbiology, 2013, 63, 1371-1378.	1.1	8
38	Fermentation optimization and industrialization of recombinant Saccharopolyspora erythraea strains for improved erythromycin a production. Biotechnology and Bioprocess Engineering, 2010, 15, 959-968.	1.4	7
39	Complete Genome Sequence of Kosakonia sp. Strain CCTCC M2018092, a Fucose-Rich Exopolysaccharide Producer. Microbiology Resource Announcements, 2019, 8, .	0.3	6
40	Improved production of Î²-glucan by a T-DNAâ€“based mutant of Aureobasidium pullulans. Applied Microbiology and Biotechnology, 2021, 105, 6887-6898.	1.7	6
41	Coproduction of polymalic acid and liamocins from two waste by-products from the xylitol and gluconate industries by Aureobasidium pullulans. Bioprocess and Biosystems Engineering, 2021, 44, 1965-1974.	1.7	4
42	Optimization of the status of cell growth guided by an on-line biomass sensor for polymalic acid fermentation. Process Biochemistry, 2019, 79, 11-17.	1.8	3
43	Studies on Inhibition of Juglone on Sarcoma 180 in Mice. , 2009, , .		1
44	Effect of qinglongyi polysaccharide on cation concentration in erythrocyte of S180 mice. , 2009, , .		0
45	Effect of juglone in Qinglongyi on cell cycle status and apoptosis in A-549 cells. , 2009, , .		0
46	Effects of juglone on ROS production and mitochondrial transmembrane potential in SGC-7901 cells. , 2009, , .		0
47	Analysis of SGC-7901 Apoptosis Induced by CSBE and Regulating Gene Expression with Laser Scanning Microscopy and Immunofluorescence Flow Cytometry Technique. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
48	Analysis of changes of Ca²⁺ concentration and mitochondrial membrane potential in HepG-2 induced by CSBE by Laser Scanning Confocal Technology and Flow Cytometry. , 2010, , .		0
49	Analysis of SGC-7901 apoptosis induced by CSBE and regulating gene expression with laser scanning microscopy and immunofluorescence flow cytometry technique. , 2010, , .		0
50	Analysis of apoptosis mechanism in SGC-7901 induced by CSBE with flow cytometry and confocal laser scanning techenology. , 2013, , .		0
51	Physicochemical Variables Better Explain Changes in Microbial Community Structure and Abundance under Alternate Wetting and Drying Events. Agriculture (Switzerland), 2022, 12, 762.	1.4	0