Chenyu Du

List of Publications by Year
in descending order

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Version: 2024-02-01

51 papers	2,646 citations	147566 31 h-index	182168 51 g-index
53 all docs	53 docs citations	53 times ranked	3002 citing authors

#	Article	IF	Citations
1	Substrate and product inhibition kinetics in succinic acid production by Actinobacillus succinogenes. Biochemical Engineering Journal, 2008, 41, 128-135.	1.8	169
2	Valorization of food waste into biofertiliser and its field application. Journal of Cleaner Production, 2018, 187, 273-284.	4.6	118
3	Inactivation of aldehyde dehydrogenase: A key factor for engineering 1,3-propanediol production by Klebsiella pneumoniae. Metabolic Engineering, 2006, 8, 578-586.	3.6	117
4	A wheat biorefining strategy based on solid-state fermentation for fermentative production of succinic acid. Bioresource Technology, 2008, 99, 8310-8315.	4.8	117
5	Cereal-based biorefinery development: Utilisation of wheat milling by-products for the production of succinic acid. Journal of Biotechnology, 2009, 143, 51-59.	1.9	114
6	Introduction of an NADH regeneration system into Klebsiella oxytoca leads to an enhanced oxidative and reductive metabolism of glycerol. Metabolic Engineering, 2009, 11, 101-106.	3.6	108
7	A solid state fungal fermentation-based strategy for the hydrolysis of wheat straw. Bioresource Technology, 2013, 149, 261-267.	4.8	103
8	Recent Trends in Sustainable Textile Waste Recycling Methods: Current Situation and Future Prospects. Topics in Current Chemistry, 2017, 375, 76.	3.0	100
9	Use of oxidoreduction potential as an indicator to regulate 1,3-propanediol fermentation by Klebsiella pneumoniae. Applied Microbiology and Biotechnology, 2006, 69, 554-563.	1.7	98
10	Polyhydroxyalkanoates Production From Low-cost Sustainable Raw Materials. Current Chemical Biology, 2012, 6, 14-25.	0.2	94
11	Marine yeast isolation and industrial application. FEMS Yeast Research, 2014, 14, 813-825.	1.1	91
12	Valorisation of textile waste by fungal solid state fermentation: An example of circular waste-based biorefinery. Resources, Conservation and Recycling, 2018, 129, 27-35.	5.3	91
13	Chemical transformations of succinic acid recovered from fermentation broths by a novel direct vacuum distillation-crystallisation method. Green Chemistry, 2009, 11, 193-200.	4.6	89
14	Succinic acid production from wheat using a biorefining strategy. Applied Microbiology and Biotechnology, 2007, 76, 1263-1270.	1.7	77
15	Selection of yeast strains for bioethanol production from UK seaweeds. Journal of Applied Phycology, 2016, 28, 1427-1441.	1.5	73
16	Overexpression and characterization of a glucose-tolerant Î²-glucosidase from T. aotearoense with high specific activity for cellobiose. Applied Microbiology and Biotechnology, 2015, 99, 8903-8915.	1.7	71
17	Value analysis tool for feasibility studies of biorefineries integrated with value added production. Chemical Engineering Science, 2008, 63, 503-519.	1.9	66
18	A seawater-based biorefining strategy for fermentative production and chemical transformations of succinic acid. Energy and Environmental Science, 2011, 4, 1471.	15.6	64

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19	Novel resin-based vacuum distillation-crystallisation method for recovery of succinic acid crystals from fermentation broths. Green Chemistry, 2010, 12, 666.	4.6	51
20	Novel Redox Potential-Based Screening Strategy for Rapid Isolation of Klebsiella pneumoniae Mutants with Enhanced 1,3-Propanediol-Producing Capability. Applied and Environmental Microbiology, 2007, 73, 4515-4521.	1.4	49
21	Development of an estimation model for the evaluation of the energy requirement of dilute acid pretreatments of biomass. Biomass and Bioenergy, 2015, 72, 28-38.	2.9	49
22	Textile waste valorization using submerged filamentous fungal fermentation. Chemical Engineering Research and Design, 2018, 118, 143-151.	2.7	49
23	Evaluating the feasibility of commercial arabinoxylan production in the context of a wheat biorefinery principally producing ethanol. Part 1. Experimental studies of arabinoxylan extraction from wheat bran. Chemical Engineering Research and Design, 2009, 87, 1232-1238.	2.7	48
24	A brief review on bioethanol production using marine biomass, marine microorganism and seawater. Current Opinion in Green and Sustainable Chemistry, 2018, 14, 53-59.	3.2	48
25	Evaluating the feasibility of commercial arabinoxylan production in the context of a wheat biorefinery principally producing ethanol. Chemical Engineering Research and Design, 2009, 87, 1239-1250.	2.7	44
26	A new HPLC method for simultaneously measuring chloride, sugars, organic acids and alcohols in food samples. Journal of Food Composition and Analysis, 2017, 56, 25-33.	1.9	44
27	The establishment of a marine focused biorefinery for bioethanol production using seawater and a novel marine yeast strain. Scientific Reports, 2018, 8, 12127.	1.6	44
28	Wheatâ€based biorefining strategy for fermentative production and chemical transformations of succinic acid. Biofuels, Bioproducts and Biorefining, 2012, 6, 88-104.	1.9	43
29	Optimisation of fungal cellulase production from textile waste using experimental design. Chemical Engineering Research and Design, 2018, 118, 133-142.	2.7	43
30	Recovery of Glucose and Polyester from Textile Waste by Enzymatic Hydrolysis. Waste and Biomass Valorization, 2019, 10, 3763-3772.	1.8	39
31	A Brief Review on the Development of Alginate Extraction Process and Its Sustainability. Sustainability, 2022, 14, 5181.	1.6	39
32	The utilization of seawater for the hydrolysis of macroalgae and subsequent bioethanol fermentation. Scientific Reports, 2020, 10, 9728.	1.6	34
33	A New Isolation and Evaluation Method for Marine-Derived Yeast spp. with Potential Applications in Industrial Biotechnology. Journal of Microbiology and Biotechnology, 2016, 26, 1891-1907.	0.9	28
34	Recent Trends in Sustainable Textile Waste Recycling Methods: Current Situation and Future Prospects. Topics in Current Chemistry Collections, 2017, , 189-228.	0.2	27
35	Exploring the tolerance of marine yeast to inhibitory compounds for improving bioethanol production. Sustainable Energy and Fuels, 2019, 3, 1545-1553.	2.5	25
36	Improving the productivity of bioethanol production using marine yeast and seawater-based media. Biomass and Bioenergy, 2020, 139, 105615.	2.9	24

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37	Improved Expression and Characterization of a Multidomain Xylanase from Thermoanaerobacterium aotearoense SCUT27 in Bacillus subtilis. Journal of Agricultural and Food Chemistry, 2015, 63, 6430-6439.	2.4	22
38	How Serratia marcescens HB-4 absorbs cadmium and its implication on phytoremediation. Ecotoxicology and Environmental Safety, 2019, 185, 109723.	2.9	22
39	The Utilization of Food Waste: Challenges and Opportunities. Journal of Food Chemistry and Nanotechnology, 2020, 6, 182-188.	0.7	19
40	Genome Sequence of Klebsiella oxytoca M5al, a Promising Strain for Nitrogen Fixation and Chemical Production. Genome Announcements, 2013, 1, .	0.8	16
41	Screening of Non- Saccharomyces cerevisiae Strains for Tolerance to Formic Acid in Bioethanol Fermentation. PLoS ONE, 2015, 10, e0135626.	1.1	12
42	The development of a biorefining strategy for the production of biofuel from sorghum milling waste. Biochemical Engineering Journal, 2019, 150, 107288.	1.8	11
43	Polyhydroxyalkanoates Production From Low-cost Sustainable Raw Materials. Current Chemical Biology, 2012, 6, 14-25.	0.2	10
44	Exploring the Bioethanol Production Potential of Miscanthus Cultivars. Applied Sciences (Switzerland), 2021, 11, 9949.	1.3	10
45	Slow relaxation of two dimensional salen type lanthanide coordination polymer. Inorganica Chimica Acta, 2020, 507, 119455.	1.2	9
46	A Role for COX20 in Tolerance to Oxidative Stress and Programmed Cell Death in Saccharomyces cerevisiae. Microorganisms, 2019, 7, 575.	1.6	6
47	The Development of a Sorghum Bran-Based Biorefining Process to Convert Sorghum Bran into Value Added Products. Foods, 2019, 8, 279.	1.9	5
48	The Application of Fungi for Bioleaching of Municipal Solid Wastes for the Production of Environmental Acceptable Compost Production. Journal of Environmental Science and Public Health, 2017, 01, 167-194.	0.1	5
49	Luminescence and structure of a family of salen type dinuclear lanthanide complexes. Inorganica Chimica Acta, 2020, 512, 119860.	1.2	3
50	Valorization of organic waste into biofertilizer and its field application. , 2020, , 179-198.		3
51	Proline as a Formic Acid Stress Protectant During Fermentation of Glucose to Ethanol bySaccharomycesspp.. Industrial Biotechnology, 2017, 13, 209-216.	0.5	2