

Alberto Bertucco

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,076
citations

471509

17
h-index

414414

32
g-index

41
all docs

41
docs citations

41
times ranked

1382
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Synechococcus</i> PCC 7002 to produce a carbohydrate-rich biomass treating urban wastewater. <i>Biofuels</i> , 2022, 13, 551-558.	2.4	9
2	Waste cooking oil to jet-diesel fuel range using 2-propanol via catalytic transfer hydrogenation reactions. <i>Biofuels</i> , 2021, 12, 723-736.	2.4	12
3	Optimization of Light and Nutrients Supply to Stabilize Long-Term Industrial Cultivation of Metabolically Engineered Cyanobacteria: A Model-Based Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10455-10465.	3.7	1
4	Flash hydrolysis of yeast (<i>Saccharomyces cerevisiae</i>) for protein recovery. <i>Journal of Supercritical Fluids</i> , 2021, 173, 105240.	3.2	6
5	Effect of residence time in continuous photobioreactor on mass and energy balance of microalgal protein production. <i>New Biotechnology</i> , 2021, 64, 46-53.	4.4	12
6	Integration of Microalgae Cultivation in a Biogas Production Process from Organic Municipal Solid Waste: From Laboratory to Pilot Scale. <i>ChemEngineering</i> , 2020, 4, 25.	2.4	14
7	Hydrogenation to convert CO_2 to C_1 chemicals: Technical comparison of different alternatives by process simulation. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1893-1906.	1.7	13
8	Mixotrophy in <i>Synechocystis</i> sp. for the treatment of wastewater with high nutrient content: effect of CO_2 and light. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1661-1669.	3.4	17
9	Respirometry as a tool to quantify kinetic parameters of microalgal mixotrophic growth. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 839-851.	3.4	25
10	Continuous Cultivation as a Method to Assess the Maximum Specific Growth Rate of Photosynthetic Organisms. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 274.	4.1	12
11	A systematic study regarding hydrolysis and ethanol fermentation from microalgal biomass. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 14, 172-182.	3.1	33
12	Assessment of dynamic membrane filtration for biological treatment of old landfill leachate. <i>Journal of Environmental Management</i> , 2018, 213, 27-35.	7.8	46
13	Nutrients recovery and recycling in algae processing for biofuels production. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 28-42.	16.4	52
14	Stability of carbohydrate production in continuous microalgal cultivation under nitrogen limitation: effect of irradiation regime and intensity on <i>Tetrademus obliquus</i> . <i>Journal of Applied Phycology</i> , 2018, 30, 261-270.	2.8	22
15	Supercritical CO_2 Extraction of <i>Eruca sativa</i> Using Cosolvents: Phytochemical Composition by LC-MS Analysis. <i>Molecules</i> , 2018, 23, 3240.	3.8	8
16	Light intensity affects the mixotrophic carbon exploitation in <i>Chlorella protothecoides</i> : consequences on microalgae-bacteria based wastewater treatment. <i>Water Science and Technology</i> , 2018, 78, 1762-1771.	2.5	19
17	Microalgae-bacteria gas exchange in wastewater: how mixotrophy may reduce the oxygen supply for bacteria. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28004-28014.	5.3	37
18	Severity Factor as an Efficient Control Parameter to Predict Biomass Solubilization and Saccharification During Acidic Hydrolysis of Microalgal Biomass. <i>Bioenergy Research</i> , 2018, 11, 491-504.	3.9	14

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19	A Two-Stage System for the Large-Scale Cultivation of Biomass: a Design and Operation Analysis Based on a Simple Steady-State Model Tuned on Laboratory Measurements. <i>Bioenergy Research</i> , 2018, 11, 398-413.	3.9	0
20	Treatment of wastewater from syngas wet scrubbing: Model-based comparison of phenol biodegradation basin configurations. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1652-1660.	1.7	4
21	Influence of light and temperature on growth and high-value molecules productivity from <i>Cyanobacterium aponinum</i> . <i>Journal of Applied Phycology</i> , 2017, 29, 1781-1790.	2.8	35
22	Dilute acid hydrolysis of microalgal biomass for bioethanol production: an accurate kinetic model of biomass solubilization, sugars hydrolysis and nitrogen/ash balance. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 122, 1095-1114.	1.7	18
23	Recycling Minerals in Microalgae Cultivation through a Combined Flash Hydrolysis-Precipitation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 929-935.	6.7	17
24	Integration of biofuels intermediates production and nutrients recycling in the processing of a marine algae. <i>AIChE Journal</i> , 2017, 63, 1494-1502.	3.6	24
25	Effects of pH and Carbon Source on <i>Synechococcus</i> PCC 7002 Cultivation: Biomass and Carbohydrate Production with Different Strategies for pH Control. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 682-698.	2.9	51
26	Recovery of Butanol by Counter-Current Carbon Dioxide Fractionation with its Potential Application to Butanol Fermentation. <i>Materials</i> , 2016, 9, 530.	2.9	9
27	Bioethanol from microalgae and cyanobacteria: A review and technological outlook. <i>Process Biochemistry</i> , 2016, 51, 1833-1842.	3.7	234
28	Cultivation of <i>Scenedesmus obliquus</i> in liquid hydrolysate from flash hydrolysis for nutrient recycling. <i>Bioresource Technology</i> , 2016, 207, 59-66.	9.6	39
29	Population balance modeling of a microalgal culture in photobioreactors: Comparison between experiments and simulations. <i>AIChE Journal</i> , 2015, 61, 2702-2710.	3.6	11
30	Process Water Recycle in Hydrothermal Liquefaction of Microalgae To Enhance Bio-oil Yield. <i>Energy & Fuels</i> , 2015, 29, 2422-2430.	5.1	76
31	Maximizing the production of <i>Scenedesmus obliquus</i> in photobioreactors under different irradiation regimes: experiments and modeling. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 2177-2188.	3.4	23
32	Evaluation of maintenance energy requirements in the cultivation of <i>Scenedesmus obliquus</i> : effect of light intensity and regime. <i>Journal of Applied Phycology</i> , 2015, 27, 1453-1462.	2.8	31
33	Continuous microalgal cultivation in a laboratory-scale photobioreactor under seasonal day-night irradiation: experiments and simulation. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1535-1542.	3.4	14
34	Design of microalgal biomass production in a continuous photobioreactor: An integrated experimental and modeling approach. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1153-1162.	5.6	50
35	Autotrophic production of biodiesel from microalgae: An updated process and economic analysis. <i>Energy</i> , 2014, 76, 807-815.	8.8	43
36	Development of a Process for an Efficient Exploitation of CO ₂ Captured from Flue Gases as Liquid Carbonates for <i>Chlorella protothecoides</i> Cultivation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16678-16688.	3.7	12

#	ARTICLE	IF	CITATIONS
37	Validation of a mathematical model for predicting high pressure carbon dioxide inactivation kinetics of Escherichia coli spiked on fresh cut carrot. <i>Journal of Supercritical Fluids</i> , 2014, 85, 17-23.	3.2	14
38	Bioethanol from Microalgal Biomass: A Promising Approach in Biorefinery. <i>Brazilian Archives of Biology and Technology</i> , 0, 62, .	0.5	17