Alberto Bertucco

List of Publications by Year
in descending order

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	Bioethanol from microalgae and cyanobacteria: A review and technological outlook. Process Biochemistry, 2016, 51, 1833-1842.	3.7	234
2	Process Water Recycle in Hydrothermal Liquefaction of Microalgae To Enhance Bio-oil Yield. Energy & Fuels, 2015, 29, 2422-2430.	5.1	76
3	Nutrients recovery and recycling in algae processing for biofuels production. Renewable and Sustainable Energy Reviews, 2018, 90, 28-42.	16.4	52
4	Effects of pH and Carbon Source on Synechococcus PCC 7002 Cultivation: Biomass and Carbohydrate Production with Different Strategies for pH Control. Applied Biochemistry and Biotechnology, 2017, 181, 682-698.	2.9	51
5	Design of microalgal biomass production in a continuous photobioreactor: An integrated experimental and modeling approach. Chemical Engineering Research and Design, 2014, 92, 1153-1162.	5.6	50
6	Assessment of dynamic membrane filtration for biological treatment of old landfill leachate. Journal of Environmental Management, 2018, 213, 27-35.	7.8	46
7	Autotrophic production of biodiesel from microalgae: An updated process and economic analysis. Energy, 2014, 76, 807-815.	8.8	43
8	Cultivation of Scenedesmus obliquus in liquid hydrolysate from flash hydrolysis for nutrient recycling. Bioresource Technology, 2016, 207, 59-66.	9.6	39
9	Microalgae-bacteria gas exchange in wastewater: how mixotrophy may reduce the oxygen supply for bacteria. Environmental Science and Pollution Research, 2018, 25, 28004-28014.	5.3	37
10	Influence of light and temperature on growth and high-value molecules productivity from Cyanobacterium aponinum. Journal of Applied Phycology, 2017, 29, 1781-1790.	2.8	35
11	A systematic study regarding hydrolysis and ethanol fermentation from microalgal biomass. Biocatalysis and Agricultural Biotechnology, 2018, 14, 172-182.	3.1	33
12	Evaluation of maintenance energy requirements in the cultivation of Scenedesmus obliquus: effect of light intensity and regime. Journal of Applied Phycology, 2015, 27, 1453-1462.	2.8	31
13	Respirometry as a tool to quantify kinetic parameters of microalgal mixotrophic growth. Bioprocess and Biosystems Engineering, 2019, 42, 839-851.	3.4	25
14	Integration of biofuels intermediates production and nutrients recycling in the processing of a marine algae. AICHE Journal, 2017, 63, 1494-1502.	3.6	24
15	Maximizing the production of Scenedesmus obliquus in photobioreactors under different irradiation regimes: experiments and modeling. Bioprocess and Biosystems Engineering, 2015, 38, 2177-2188.	3.4	23
16	Stability of carbohydrate production in continuous microalgal cultivation under nitrogen limitation: effect of irradiation regime and intensity on Tetradesmus obliquus. Journal of Applied Phycology, 2018, 30, 261-270.	2.8	22
17	Light intensity affects the mixotrophic carbon exploitation in Chlorella protothecoides: consequences on microalgae-bacteria based wastewater treatment. Water Science and Technology, 2018, 78, 1762-1771.	2.5	19
18	Dilute acid hydrolysis of microalgal biomass for bioethanol production: an accurate kinetic model of biomass solubilization, sugars hydrolysis and nitrogen/ash balance. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 1095-1114.	1.7	18

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19	Recycling Minerals in Microalgae Cultivation through a Combined Flash Hydrolysisâ€“Precipitation Process. ACS Sustainable Chemistry and Engineering, 2017, 5, 929-935.	6.7	17
20	Mixotrophy in Synechocystis sp. for the treatment of wastewater with high nutrient content: effect of CO2 and light. Bioprocess and Biosystems Engineering, 2019, 42, 1661-1669.	3.4	17
21	Bioethanol from Microalgal Biomass: A Promising Approach in Biorefinery. Brazilian Archives of Biology and Technology, 0, 62, .	0.5	17
22	Continuous microalgal cultivation in a laboratory-scale photobioreactor under seasonal dayâ€“night irradiation: experiments and simulation. Bioprocess and Biosystems Engineering, 2014, 37, 1535-1542.	3.4	14
23	Validation of a mathematical model for predicting high pressure carbon dioxide inactivation kinetics of Escherichia coli spiked on fresh cut carrot. Journal of Supercritical Fluids, 2014, 85, 17-23.	3.2	14
24	Severity Factor as an Efficient Control Parameter to Predict Biomass Solubilization and Saccharification During Acidic Hydrolysis of Microalgal Biomass. Bioenergy Research, 2018, 11, 491-504.	3.9	14
25	Integration of Microalgae Cultivation in a Biogas Production Process from Organic Municipal Solid Waste: From Laboratory to Pilot Scale. ChemEngineering, 2020, 4, 25.	2.4	14
26	Hydrogenation to convert <scp>CO₂</scp> to <scp>C1</scp> chemicals: Technical comparison of different alternatives by process simulation. Canadian Journal of Chemical Engineering, 2020, 98, 1893-1906.	1.7	13
27	Development of a Process for an Efficient Exploitation of CO₂ Captured from Flue Gases as Liquid Carbonates for Chlorella protothecoides Cultivation. Industrial & Engineering Chemistry Research, 2014, 53, 16678-16688.	3.7	12
28	Continuous Cultivation as a Method to Assess the Maximum Specific Growth Rate of Photosynthetic Organisms. Frontiers in Bioengineering and Biotechnology, 2019, 7, 274.	4.1	12
29	Waste cooking oil to jet-diesel fuel range using 2-propanol via catalytic transfer hydrogenation reactions. Biofuels, 2021, 12, 723-736.	2.4	12
30	Effect of residence time in continuous photobioreactor on mass and energy balance of microalgal protein production. New Biotechnology, 2021, 64, 46-53.	4.4	12
31	Population balance modeling of a microalgal culture in photobioreactors: Comparison between experiments and simulations. AICHE Journal, 2015, 61, 2702-2710.	3.6	11
32	Recovery of Butanol by Counter-Current Carbon Dioxide Fractionation with its Potential Application to Butanol Fermentation. Materials, 2016, 9, 530.	2.9	9
33	Synechococcus PCC 7002 to produce a carbohydrate-rich biomass treating urban wastewater. Biofuels, 2022, 13, 551-558.	2.4	9
34	Supercritical CO2 Extraction of Eruca sativa Using Cosolvents: Phytochemical Composition by LC-MS Analysis. Molecules, 2018, 23, 3240.	3.8	8
35	Flash hydrolysis of yeast (Saccharomyces cerevisiae) for protein recovery. Journal of Supercritical Fluids, 2021, 173, 105240.	3.2	6
36	Treatment of wastewater from syngas wet scrubbing: Modelâ€based comparison of phenol biodegradation basin configurations. Canadian Journal of Chemical Engineering, 2017, 95, 1652-1660.	1.7	4

#	Article	IF	Citations
37	Optimization of Light and Nutrients Supply to Stabilize Long-Term Industrial Cultivation of Metabolically Engineered Cyanobacteria: A Model-Based Analysis. Industrial & Engineering Chemistry Research, 2021, 60, 10455-10465.	3.7	1
38	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. Bioenergy Research, 2018, 11, 398-413.	3.9	0