Marcelo Perencin de Arruda Ribeiro

List of Publications by Year
in descending order

34 papers	493 citations	623188 14 h-index	713013 21 g-index
34 all docs	34 docs citations	34 times ranked	569 citing authors

#	Article	IF	Citations
1	Strategies to reduce the negative impact of inhibitors in biorefineries: A combined techno-economic and life cycle assessment. Journal of Cleaner Production, 2022, 345, 131020.	4.6	8
2	Midâ€infrared spectroscopy as a tool for realâ€time monitoring of ethanol absorption in glycols. Canadian Journal of Chemical Engineering, 2021, 99, 401-409.	0.9	1
3	Kinetic modeling of the enzymatic synthesis of galacto-oligosaccharides: Describing galactobiose formation. Food and Bioproducts Processing, 2021, 127, 1-13.	1.8	6
4	Techno-Economic-Environmental Analysis of Sophorolipid Biosurfactant Production from Sugarcane Bagasse. Industrial & Engineering Chemistry Research, 2021, 60, 9833-9850.	1.8	16
5	Mitigating the negative impact of soluble and insoluble lignin in biorefineries. Renewable Energy, 2021, 173, 1017-1026.	4.3	16
6	Dynamic Modeling Application To Evaluate the Performance of <i>Spathaspora passalidarum</i> in Second-Generation Ethanol Production: Parametric Dynamics and the Likelihood Confidence Region. Industrial & Engineering Chemistry Research, 2021, 60, 13822-13833.	1.8	4
7	Techno-Economic Feasibility of Biomass Washing in 1G2G Sugarcane Biorefineries. Bioenergy Research, 2021, 14, 1253-1264.	2.2	6
8	Replacing hexane by ethanol for soybean oil extraction: Modeling, simulation, and techno-economic-environmental analysis. Journal of Cleaner Production, 2020, 244, 118660.	4.6	57
9	Temperature Influence in Real-Time Monitoring of Fed-Batch Ethanol Fermentation by Mid-Infrared Spectroscopy. Industrial & Engineering Chemistry Research, 2020, 59, 18425-18433.	1.8	6
10	Comparison of Two Methods for Counting Molds in Fermentations Using the Production of Bikaverin by Fusarium oxysporum CCT7620 as a Model. Current Microbiology, 2020, 77, 3671-3679.	1.0	4
11	Estimation of Biomass Enzymatic Hydrolysis State in Stirred Tank Reactor through Moving Horizon Algorithms with Fixed and Dynamic Fuzzy Weights. Processes, 2020, 8, 407.	1.3	2
12	Combi-CLEAs of Glucose Oxidase and Catalase for Conversion of Glucose to Gluconic Acid Eliminating the Hydrogen Peroxide to Maintain Enzyme Activity in a Bubble Column Reactor. Catalysts, 2019, 9, 657.	1.6	29
13	Fuzzy-Enhanced Modeling of Lignocellulosic Biomass Enzymatic Saccharification. Energies, 2019, 12, 2110.	1.6	4
14	A hierarchical state estimation and control framework for monitoring and dissolved oxygen regulation in bioprocesses. Bioprocess and Biosystems Engineering, 2019, 42, 1467-1481.	1.7	14
15	Kinetic study of soybean oil hydrolysis catalyzed by lipase from solid castor bean seeds. Chemical Engineering Research and Design, 2019, 144, 115-122.	2.7	12
16	Mapping Salmonella typhimurium pathways using 13C metabolic flux analysis. Metabolic Engineering, 2019, 52, 303-314.	3.6	3
17	Fast spectroscopic monitoring of inhibitors in the 2G ethanol process. Bioresource Technology, 2018, 250, 148-154.	4.8	19
18	VAPOR-LIQUID EQUILIBRIUM CALCULATION FOR SIMULATION OF BIOETHANOL CONCENTRATION FROM SUGARCANE. Brazilian Journal of Chemical Engineering, 2018, 35, 341-352.	0.7	5

#	Article	IF	Citations
19	Retro-Techno-Economic-Environmental Analysis (RTEEA) from the cradle: a new approach for process development. Computer Aided Chemical Engineering, 2018, 43, 1541-1546.	0.3	2
20	Real-Time Monitoring of Bioethanol Fermentation with Industrial Musts Using Mid-Infrared Spectroscopy. Industrial & Engineering Chemistry Research, 2018, 57, 10823-10831.	1.8	16
21	Combined CLEAs of invertase and soy protein for economically feasible conversion of sucrose in a fed-batch reactor. Food and Bioproducts Processing, 2018, 110, 145-157.	1.8	17
22	Automated algorithm to determine<i>k_La</i>considering system delay. Journal of Chemical Technology and Biotechnology, 2017, 92, 1630-1637.	1.6	4
23	Recombinant Escherichia coli cultivation in a pressurized airlift bioreactor: assessment of the influence of temperature on oxygen transfer and uptake rates. Bioprocess and Biosystems Engineering, 2017, 40, 1621-1633.	1.7	11
24	A new approach for <i><scp>k_La</scp></i> determination by gassingâ€out method in pneumatic bioreactors. Journal of Chemical Technology and Biotechnology, 2016, 91, 3061-3069.	1.6	10
25	Diffusion effects of bovine serum albumin on cross-linked aggregates of catalase. Journal of Molecular Catalysis B: Enzymatic, 2016, 133, 107-116.	1.8	27
26	Monitoring of the cellulosic ethanol fermentation process by near-infrared spectroscopy. Bioresource Technology, 2016, 203, 334-340.	4.8	32
27	Oxygen transfer in a pressurized airlift bioreactor. Bioprocess and Biosystems Engineering, 2015, 38, 1559-1567.	1.7	14
28	Fast Determination of the Composition of Pretreated Sugarcane Bagasse Using Near-Infrared Spectroscopy. Bioenergy Research, 2014, 7, 1441-1453.	2.2	8
29	Solidâ€“liquid equilibrium of substrates and products of the enzymatic synthesis of ampicillin. AIChE Journal, 2010, 56, 1578-1583.	1.8	21
30	Multivariate calibration methods applied to the monitoring of the enzymatic synthesis of amipicilin. Chemometrics and Intelligent Laboratory Systems, 2008, 90, 169-177.	1.8	14
31	Kinetics of Î²-lactam antibiotics synthesis by penicillin G acylase (PGA) from the viewpoint of the industrial enzymatic reactor optimization. Biotechnology Advances, 2006, 24, 27-41.	6.0	78
32	Selectivity of the enzymatic synthesis of ampicillin by E. coli PGA in the presence of high concentrations of substrates. Journal of Molecular Catalysis B: Enzymatic, 2005, 33, 81-86.	1.8	23
33	Variational calculus (optimal control) applied to the optimization of the enzymatic synthesis of ampicillin. Brazilian Archives of Biology and Technology, 2005, 48, 19-28.	0.5	4
34	Mathematical modeling of enzymatic hydrolysis of soybean meal protein concentrate. Chemical Engineering Communications, 0, , 1-13.	1.5	0