# Marcelo Perencin de Arruda Ribeiro

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | 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 |
| 3 | Monitoring of the cellulosic ethanol fermentation process by near-infrared spectroscopy. Bioresource Technology, 2016, 203, 334-340. | 4.8 | 32 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Solidâ€“liquid equilibrium of substrates and products of the enzymatic synthesis of ampicillin. AICHE Journal, 2010, 56, 1578-1583. | 1.8 | 21 |
| 8 | Fast spectroscopic monitoring of inhibitors in the 2G ethanol process. Bioresource Technology, 2018, 250, 148-154. | 4.8 | 19 |
| 9 | 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 |
| 10 | Real-Time Monitoring of Bioethanol Fermentation with Industrial Musts Using Mid-Infrared Spectroscopy. Industrial & Engineering Chemistry Research, 2018, 57, 10823-10831. | 1.8 | 16 |
| 11 | Techno-Economic-Environmental Analysis of Sophorolipid Biosurfactant Production from Sugarcane Bagasse. Industrial & Engineering Chemistry Research, 2021, 60, 9833-9850. | 1.8 | 16 |
| 12 | Mitigating the negative impact of soluble and insoluble lignin in biorefineries. Renewable Energy, 2021, 173, 1017-1026. | 4.3 | 16 |
| 13 | 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 |
| 14 | Oxygen transfer in a pressurized airlift bioreactor. Bioprocess and Biosystems Engineering, 2015, 38, 1559-1567. | 1.7 | 14 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | A new approach for <scp>k<sub>L</sub>a</scp> determination by gassingâ€out method in pneumatic bioreactors. Journal of Chemical Technology and Biotechnology, 2016, 91, 3061-3069. | 1.6 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fast Determination of the Composition of Pretreated Sugarcane Bagasse Using Near-Infrared Spectroscopy. Bioenergy Research, 2014, 7, 1441-1453. | 2.2 | 8 |
| 20 | 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 |
| 21 | 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 |
| 22 | Kinetic modeling of the enzymatic synthesis of galacto-oligosaccharides: Describing galactobiose formation. Food and Bioproducts Processing, 2021, 127, 1-13. | 1.8 | 6 |
| 23 | Techno-Economic Feasibility of Biomass Washing in 1G2G Sugarcane Biorefineries. Bioenergy Research, 2021, 14, 1253-1264. | 2.2 | 6 |
| 24 | VAPOR-LIQUID EQUILIBRIUM CALCULATION FOR SIMULATION OF BIOETHANOL CONCENTRATION FROM SUGARCANE. Brazilian Journal of Chemical Engineering, 2018, 35, 341-352. | 0.7 | 5 |
| 25 | Automated algorithm to determinek<sub>L</sub>aconsidering system delay. Journal of Chemical Technology and Biotechnology, 2017, 92, 1630-1637. | 1.6 | 4 |
| 26 | Fuzzy-Enhanced Modeling of Lignocellulosic Biomass Enzymatic Saccharification. Energies, 2019, 12, 2110. | 1.6 | 4 |
| 27 | 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 |
| 28 | Dynamic Modeling Application To Evaluate the Performance of Spathaspora passalidarum in Second-Generation Ethanol Production: Parametric Dynamics and the Likelihood Confidence Region. Industrial & Engineering Chemistry Research, 2021, 60, 13822-13833. | 1.8 | 4 |
| 29 | 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 |
| 30 | Mapping Salmonella typhimurium pathways using 13C metabolic flux analysis. Metabolic Engineering, 2019, 52, 303-314. | 3.6 | 3 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Mathematical modeling of enzymatic hydrolysis of soybean meal protein concentrate. Chemical Engineering Communications, 0, , 1-13. | 1.5 | 0 |