Alberto C Badino

List of Publications by Year
in descending order

88 papers	1,787 citations	257101 24 h-index	344852 36 g-index
91 all docs	91 docs citations	91 times ranked	1579 citing authors

#	Article	IF	Citations
1	Sequential solid-state and submerged cultivation of Aspergillus niger on sugarcane bagasse for the production of cellulase. Bioresource Technology, 2012, 112, 270-274.	4.8	123
2	Secretome analysis of Trichoderma reesei and Aspergillus niger cultivated by submerged and sequential fermentation processes: Enzyme production for sugarcane bagasse hydrolysis. Enzyme and Microbial Technology, 2016, 90, 53-60.	1.6	86
3	Nanocellulose Production in Future Biorefineries: An Integrated Approach Using Tailor-Made Enzymes. ACS Sustainable Chemistry and Engineering, 2020, 8, 2277-2286.	3.2	73
4	Soybean protein as a cost-effective lignin-blocking additive for the saccharification of sugarcane bagasse. Bioresource Technology, 2016, 221, 172-180.	4.8	72
5	Influence of dissolved oxygen and shear conditions on clavulanic acid production by Streptomyces clavuligerus. Bioprocess and Biosystems Engineering, 2005, 27, 99-104.	1.7	58
6	Influence of dual-impeller type and configuration on oxygen transfer, power consumption, and shear rate in a stirred tank bioreactor. Biochemical Engineering Journal, 2016, 114, 130-139.	1.8	54
7	Comparison between average shear rates in conventional bioreactor with Rushton and Elephant ear impellers. Chemical Engineering Science, 2013, 90, 92-100.	1.9	48
8	Average shear rate for non-Newtonian fluids in a concentric-tube airlift bioreactor. Biochemical Engineering Journal, 2008, 39, 51-57.	1.8	47
9	Determination of the average shear rate in a stirred and aerated tank bioreactor. Bioprocess and Biosystems Engineering, 2009, 32, 241-248.	1.7	46
10	Mixing design for enzymatic hydrolysis of sugarcane bagasse: methodology for selection of impeller configuration. Bioprocess and Biosystems Engineering, 2016, 39, 285-294.	1.7	39
11	Extractive Fed-Batch Ethanol Fermentation with CO₂ Stripping in a Bubble Column Bioreactor: Experiment and Modeling. Energy & Fuels, 2016, 30, 748-757.	2.5	37
12	Influence of feeding conditions on clavulanic acid production in fed-batch cultivation with medium containing glycerol. Applied Microbiology and Biotechnology, 2006, 72, 450-455.	1.7	36
13	Extractive Batch Fermentation with CO₂ Stripping for Ethanol Production in a Bubble Column Bioreactor: Experimental and Modeling. Energy & Fuels, 2014, 28, 7552-7559.	2.5	36
14	Liquefaction of sugarcane bagasse for enzyme production. Bioresource Technology, 2014, 172, 249-252.	4.8	34
15	Assessment of different biomass feeding strategies for improving the enzymatic hydrolysis of sugarcane straw. Industrial Crops and Products, 2018, 125, 293-302.	2.5	34
16	Oxygen transfer in three scales of concentric tube airlift bioreactors. Biochemical Engineering Journal, 2010, 51, 40-47.	1.8	33
17	Validation of a Novel Sequential Cultivation Method for the Production of Enzymatic Cocktails from Trichoderma Strains. Applied Biochemistry and Biotechnology, 2015, 175, 1389-1402.	1.4	30
18	Gluconic acid production from sucrose in an airlift reactor using a multi-enzyme system. Bioprocess and Biosystems Engineering, 2015, 38, 671-680.	1.7	30

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19	Utilization of vegetable oil in the production of clavulanic acid by Streptomyces clavuligerusATCC 27064. World Journal of Microbiology and Biotechnology, 2005, 21, 509-514.	1.7	29
20	Addition of Soybean Protein Improves Saccharification and Ethanol Production from Hydrothermally Pretreated Sugarcane Bagasse. Bioenergy Research, 2019, 12, 81-93.	2.2	29
21	Three-phasic fermentation systems for enzyme production with sugarcane bagasse in stirred tank bioreactors: Effects of operational variables and cultivation method. Biochemical Engineering Journal, 2015, 97, 32-39.	1.8	27
22	Modeling and simulation of continuous extractive fermentation with CO2 stripping for bioethanol production. Chemical Engineering Research and Design, 2018, 132, 77-88.	2.7	26
23	Enzymatic production of cellulose nanofibers and sugars in a stirred-tank reactor: determination of impeller speed, power consumption, and rheological behavior. Cellulose, 2018, 25, 4499-4511.	2.4	26
24	Fed-batch ethanol fermentation at low temperature as a way to obtain highly concentrated alcoholic wines: Modeling and optimization. Biochemical Engineering Journal, 2019, 141, 60-70.	1.8	26
25	Title is missing!. World Journal of Microbiology and Biotechnology, 1999, 15, 623-627.	1.7	24
26	Prediction of mean bubble size in pneumatic reactors. Biochemical Engineering Journal, 2010, 53, 12-17.	1.8	23
27	Oxygen transfer in different pneumatic bioreactors containing viscous Newtonian fluids. Chemical Engineering Research and Design, 2015, 94, 456-465.	2.7	23
28	Effect of a novel method for in-house cellulase production on 2G ethanol yields. Biocatalysis and Agricultural Biotechnology, 2017, 9, 224-229.	1.5	23
29	Selection and application of nontoxic solvents in extractive ethanol fermentation. Biochemical Engineering Journal, 2017, 127, 128-135.	1.8	23
30	On-Site Production of Enzymatic Cocktails Using a Non-conventional Fermentation Method with Agro-Industrial Residues as Renewable Feedstocks. Waste and Biomass Valorization, 2017, 8, 517-526.	1.8	22
31	Influence of glycerol and ornithine feeding on clavulanic acid production by Streptomyces clavuligerus. Brazilian Journal of Chemical Engineering, 2010, 27, 499-506.	0.7	22
32	Shear conditions in clavulanic acid production by Streptomyces clavuligerus in stirred tank and airlift bioreactors. Bioprocess and Biosystems Engineering, 2012, 35, 977-984.	1.7	21
33	Stripping of ethanol with CO2 in bubble columns: Effects of operating conditions and modeling. Chemical Engineering Research and Design, 2015, 102, 150-160.	2.7	21
34	Power consumption evaluation of different fed-batch strategies for enzymatic hydrolysis of sugarcane bagasse. Bioprocess and Biosystems Engineering, 2016, 39, 825-833.	1.7	21
35	Optimization of Fed-Batch Fermentation with in Situ Ethanol Removal by CO₂ Stripping. Energy & Fuels, 2018, 32, 954-960.	2.5	20
36	Production of clavulanic acid and cephamycin C by Streptomyces clavuligerus under different fed-batch conditions. Brazilian Journal of Chemical Engineering, 2013, 30, 257-266.	0.7	19

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37	A closed-loop strategy for endoglucanase production using sugarcane bagasse liquefied by a home-made enzymatic cocktail. Bioresource Technology, 2018, 249, 976-982.	4.8	19
38	Average shear rate in three pneumatic bioreactors. Bioprocess and Biosystems Engineering, 2010, 33, 979-988.	1.7	18
39	Anthraquinone encapsulation into polymeric nanocapsules as a new drug from biotechnological origin designed for photodynamic therapy. Photodiagnosis and Photodynamic Therapy, 2020, 31, 101815.	1.3	17
40	Real-Time Monitoring of Bioethanol Fermentation with Industrial Musts Using Mid-Infrared Spectroscopy. Industrial & Engineering Chemistry Research, 2018, 57, 10823-10831.	1.8	16
41	Secretome data from Trichoderma reesei and Aspergillus niger cultivated in submerged and sequential fermentation methods. Data in Brief, 2016, 8, 588-598.	0.5	15
42	Optimisation of the glycerol-to-ornithine molar ratio in the feed medium for the continuous production of clavulanic acid by Streptomyces clavuligerus. Biochemical Engineering Journal, 2010, 53, 7-11.	1.8	14
43	Oxygen transfer in a pressurized airlift bioreactor. Bioprocess and Biosystems Engineering, 2015, 38, 1559-1567.	1.7	14
44	Hydrodynamics of Newtonian and non-Newtonian liquids in internal-loop airlift reactors. Biochemical Engineering Journal, 2016, 109, 137-152.	1.8	14
45	Sparger design as key parameter to define shear conditions in pneumatic bioreactors. Biochemical Engineering Journal, 2020, 157, 107529.	1.8	14
46	Relation between pellet fragmentation kinetics and cellulolytic enzymes production by Aspergillus niger in conventional bioreactor with different impellers. Enzyme and Microbial Technology, 2020, 139, 109587.	1.6	14
47	Framework Based on Artificial Intelligence to Increase Industrial Bioethanol Production. Energy & Fuels, 2020, 34, 4670-4677.	2.5	14
48	Indirect method for quantification of cellular biomass in a solidscontaining medium used as pre-culture for cellulase production. Biotechnology and Bioprocess Engineering, 2012, 17, 100-108.	1.4	13
49	Numerical evaluation of mass transfer coefficient in stirred tank reactors with non-Newtonian fluid. Theoretical Foundations of Chemical Engineering, 2016, 50, 945-958.	0.2	12
50	Recombinant protein production by engineered Escherichia coli in a pressurized airlift bioreactor: A techno-economic analysis. Chemical Engineering and Processing: Process Intensification, 2016, 103, 63-69.	1.8	12
51	Moving from residual lignocellulosic biomass into highâ€value products: Outcomes from a longâ€term international cooperation. Biofuels, Bioproducts and Biorefining, 2021, 15, 563-573.	1.9	12
52	Production of clavulanic acid by Streptomyces clavuligerus in batch cultures without and with glycerol pulses under different temperature conditions. Biochemical Engineering Journal, 2012, 69, 1-7.	1.8	11
53	Global performance parameters for different pneumatic bioreactors operating with water and glycerol solution: experimental data and CFD simulation. Bioprocess and Biosystems Engineering, 2015, 38, 2063-2075.	1.7	11
54	Overproduction of clavulanic acid by extractive fermentation. Electronic Journal of Biotechnology, 2015, 18, 154-160.	1.2	11

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55	A New Methodology to Calculate the Ethanol Fermentation Efficiency at Bench and Industrial Scales. Industrial & Engineering Chemistry Research, 2018, 57, 16182-16191.	1.8	11
56	Improvement of ethanol production by extractive fed-batch fermentation in a drop column bioreactor. Bioprocess and Biosystems Engineering, 2020, 43, 2295-2303.	1.7	11
57	Gas hold-up and oxygen mass transfer in three pneumatic bioreactors operating with sugarcane bagasse suspensions. Bioprocess and Biosystems Engineering, 2014, 37, 805-812.	1.7	10
58	A new approach for <scp>k_La</scp> determination by gassingâ€out method in pneumatic bioreactors. Journal of Chemical Technology and Biotechnology, 2016, 91, 3061-3069.	1.6	10
59	Identification of Two New Phosphorylated Polyketides from a Brazilian Streptomyces sp. Through the Use of <scp>LC</scp>â€“<scp>SPE</scp>/<scp>NMR</scp>. Helvetica Chimica Acta, 2016, 99, 281-285.	1.0	10
60	In situ extractive ethanol fermentation in a drop column bioreactor. Journal of Chemical Technology and Biotechnology, 2018, 93, 1381-1387.	1.6	10
61	Oxygen Transfer and Fragmentation of Aspergillus niger Pellets in Stirred Tank and Concentric-Duct Airlift Bioreactors. Industrial Biotechnology, 2020, 16, 67-74.	0.5	10
62	Heat transfer evaluation for conventional and extractive ethanol fermentations: Saving cooling water. Journal of Cleaner Production, 2021, 304, 127063.	4.6	10
63	Comparisons between continuous and batch processing to produce clavulanic acid by Streptomyces clavuligerus. Brazilian Archives of Biology and Technology, 2005, 48, 97-104.	0.5	9
64	Power Input and Oxygen Transfer in Fed-Batch Penicillin Production Process. , 1994, , 157-162.		8
65	Mathematical Modeling of Fed-Batch Ethanol Fermentation Under Very High Gravity and High Cell Density at Different Temperatures. Applied Biochemistry and Biotechnology, 2022, 194, 2632-2649.	1.4	8
66	Average shear rate in airlift bioreactors: searching for the true value. Bioprocess and Biosystems Engineering, 2019, 42, 995-1008.	1.7	7
67	Gas Hold-Up and Mass Transfer in Three Geometrically Similar Internal Loop Airlift Reactors Using Newtonian Fluids. International Journal of Chemical Reactor Engineering, 2010, 8, .	0.6	6
68	Effect of geometric design on performance of square crossâ€section concentricâ€duct and split airlift bioreactors. Canadian Journal of Chemical Engineering, 2017, 95, 2324-2332.	0.9	6
69	Screening of medium constituents for clavulanic acid production by Streptomyces clavuligerus. Brazilian Journal of Microbiology, 2018, 49, 832-839.	0.8	6
70	Application of Acid and Cold Stresses to Enhance the Production of Clavulanic Acid by Streptomyces clavuligerus. Applied Biochemistry and Biotechnology, 2019, 188, 706-719.	1.4	6
71	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
72	Evaluation of different media for the production of cephalosporins by Streptomyces clavuligerus ATCC 27064. Brazilian Archives of Biology and Technology, 2012, 55, 819-825.	0.5	6

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73	Cellulolytic enzymes production guided by morphology engineering. Enzyme and Microbial Technology, 2021, 149, 109833.	1.6	5
74	The use of enzymes to isolate cellulose nanomaterials: A systematic map review. Carbohydrate Polymer Technologies and Applications, 2022, 3, 100212.	1.6	5
75	Real-Time Monitoring of Ethanol Fermentation Using Mid-Infrared Spectroscopy Analysis of the Gas Phase. Industrial & Engineering Chemistry Research, 2022, 61, 7225-7234.	1.8	5
76	Title is missing!. Biotechnology Letters, 1999, 13, 725-728.	0.5	4
77	Assessing the Performance of Industrial Ethanol Fermentation Unit Using Neural Networks. Computer Aided Chemical Engineering, 2018, , 175-180.	0.3	4
78	Aeration step method for k_La measurement under growth conditions in pneumatic bioreactors. Journal of Chemical Technology and Biotechnology, 2019, 94, 2327-2332.	1.6	4
79	Ethanol Recovery from Stripping Gas Mixtures by Gas Absorption: Experimental and Modeling. Energy & Fuels, 2019, 33, 369-378.	2.5	4
80	Linking maximal shear rate and energy dissipation/circulation function in airlift bioreactors. Biochemical Engineering Journal, 2022, 178, 108308.	1.8	4
81	On-Site Production of Cellulolytic Enzymes by the Sequential Cultivation Method. Methods in Molecular Biology, 2018, 1796, 273-282.	0.4	3
82	Mass Transfer Performance of Ethanol Removal by CO₂ Stripping in Different Pneumatic Bioreactors. Industrial Biotechnology, 2020, 16, 81-90.	0.5	2
83	Current challenges on the production and use of cellulolytic enzymes in the hydrolysis of lignocellulosic biomass. Quimica Nova, 0, , .	0.3	2
84	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
85	ESTIMATIVA DA VELOCIDADE DE CISALHAMENTO EM DIFERENTES MODELOS E ESCALAS DE BIORREATORES PNEUMÃTICOS OPERADOS COM FLUIDOS NÃƒO-NEWTONIANOS. , 0, , .		1
86	AnaBioPlus: a new package for parameter estimation and simulation of bioprocesses. Brazilian Journal of Chemical Engineering, 2017, 34, 1065-1082.	0.7	0
87	MODELAGEM DA REMOÃ‡ÃƒO DE ETANOL E ÃGUA POR ARRASTE COM CO2: EFEITO DA TEMPERATURA DA SOLUÃ‡ÃƒO. , 0, , .		0
88	AVALIAÃ‡ÃƒO DO ARRASTE DE ETANOL POR CO2 EM DIFERENTES MODELOS DE REATORES PNEUMÃTICOS. , 0, , .		0