

Adriano Mariano

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58

papers

1,136

citations

18

h-index

32

g-index

66

ext. papers

1,293

ext. citations

4.4

avg, IF

4.63

L-index

#	Paper	IF	Citations
58	Butanol production in a first-generation Brazilian sugarcane biorefinery: technical aspects and economics of greenfield projects. <i>Bioresource Technology</i> , 2013 , 135, 316-23	11	104
57	Bioproduction of butanol in bioreactors: new insights from simultaneous in situ butanol recovery to eliminate product toxicity. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1757-65	4.9	93
56	Energy Requirements for Butanol Recovery Using the Flash Fermentation Technology. <i>Energy & Fuels</i> , 2011 , 25, 2347-2355	4.1	78
55	Utilization of pentoses from sugarcane biomass: techno-economics of biogas vs. butanol production. <i>Bioresource Technology</i> , 2013 , 142, 390-9	11	71
54	Economic and environmental assessment of n-butanol production in an integrated first and second generation sugarcane biorefinery: Fermentative versus catalytic routes. <i>Applied Energy</i> , 2015 , 160, 120-131	10.7	64
53	Laboratory study on the bioremediation of diesel oil contaminated soil from a petrol station. <i>Brazilian Journal of Microbiology</i> , 2007 , 38, 346-353	2.2	62
52	Making Levulinic Acid and Ethyl Levulinate Economically Viable: A Worldwide Technoeconomic and Environmental Assessment of Possible Routes. <i>Energy Technology</i> , 2018 , 6, 613-639	3.5	59
51	Assessment of in situ butanol recovery by vacuum during acetone butanol ethanol (ABE) fermentation. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 334-340	3.5	57
50	Improvements in Biobutanol Fermentation and Their Impacts on Distillation Energy Consumption and Wastewater Generation. <i>Bioenergy Research</i> , 2012 , 5, 504-514	3.1	57
49	Biosurfactant synthesis by <i>Pseudomonas aeruginosa</i> LBI isolated from a hydrocarbon-contaminated site. <i>Journal of Applied Microbiology</i> , 2008 , 105, 1484-90	4.7	46
48	Energy requirements during butanol production and in situ recovery by cyclic vacuum. <i>Renewable Energy</i> , 2012 , 47, 183-187	8.1	37
47	Biodegradability of commercial and weathered diesel oils. <i>Brazilian Journal of Microbiology</i> , 2008 , 39, 133-142	2.2	36
46	Optimization of lipids production by <i>Cryptococcus laurentii</i> 11 using cheese whey with molasses. <i>Brazilian Journal of Microbiology</i> , 2014 , 45, 379-87	2.2	25
45	Optimisation of a continuous flash fermentation for butanol production using the response surface methodology. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 562-571	5.5	23
44	Economic potential of 2-methyltetrahydrofuran (MTHF) and ethyl levulinate (EL) produced from hemicelluloses-derived furfural. <i>Biomass and Bioenergy</i> , 2018 , 119, 492-502	5.3	23
43	Towards enhanced n-butanol production from sugarcane bagasse hemicellulosic hydrolysate: Strain screening, and the effects of sugar concentration and butanol tolerance. <i>Biomass and Bioenergy</i> , 2019 , 126, 190-198	5.3	20
42	Acetone-free biobutanol production: Past and recent advances in the Isopropanol-Butanol-Ethanol (IBE) fermentation. <i>Bioresource Technology</i> , 2019 , 287, 121425	11	20

41	Jet fuel production in eucalyptus pulp mills: Economics and carbon footprint of ethanol vs. butanol pathway. <i>Bioresource Technology</i> , 2018 , 268, 9-19	11	18
40	The use of vinasse as an amendment to ex-situ bioremediation of soil and groundwater contaminated with diesel oil. <i>Brazilian Archives of Biology and Technology</i> , 2009 , 52, 1043-1055	1.8	17
39	Aerobic biodegradation of butanol and gasoline blends. <i>Biomass and Bioenergy</i> , 2009 , 33, 1175-1181	5.3	17
38	Comparison of two lipid extraction methods produced by yeast in cheese whey. <i>Brazilian Archives of Biology and Technology</i> , 2013 , 56, 629-636	1.8	14
37	Global View of Biofuel Butanol and Economics of Its Production by Fermentation from Sweet Sorghum Bagasse, Food Waste, and Yellow Top Presscake: Application of Novel Technologies. <i>Fermentation</i> , 2020 , 6, 58	4.7	13
36	Optimisation of a fermentation process for butanol production by particle swarm optimisation (PSO). <i>Journal of Chemical Technology and Biotechnology</i> , 2010 , 85, 934-949	3.5	13
35	Process design and economics of a flexible ethanol-butanol plant annexed to a eucalyptus kraft pulp mill. <i>Bioresource Technology</i> , 2018 , 250, 345-354	11	13
34	Optimization strategies based on sequential quadratic programming applied for a fermentation process for butanol production. <i>Applied Biochemistry and Biotechnology</i> , 2009 , 159, 366-81	3.2	11
33	Enabling butanol production from crude sugarcane bagasse hemicellulose hydrolysate by batch-feeding it into molasses fermentation. <i>Industrial Crops and Products</i> , 2020 , 155, 112837	5.9	10
32	Evaluation of the use of vinasse as a biostimulation agent for the biodegradation of oily sludge in soil. <i>Brazilian Archives of Biology and Technology</i> , 2010 , 53, 1217-1224	1.8	9
31	Sugarcane bagasse hydrolysates as feedstock to produce the isopropanol-butanol-ethanol fuel mixture: Effect of lactic acid derived from microbial contamination on <i>Clostridium beijerinckii</i> DSM 6423. <i>Bioresource Technology</i> , 2021 , 319, 124140	11	9
30	Biochemical conversion of sugarcane bagasse into the alcohol fuel mixture of isopropanol-butanol-ethanol (IBE): Is it economically competitive with cellulosic ethanol?. <i>Bioresource Technology</i> , 2020 , 314, 123712	11	8
29	Analysis of the particle swarm algorithm in the optimization of a three-phase slurry catalytic reactor. <i>Computers and Chemical Engineering</i> , 2011 , 35, 2741-2749	4	8
28	Dynamics and control strategies for a butanol fermentation process. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 160, 2424-48	3.2	8
27	Resolving mismatches in the flexible production of ethanol and butanol from eucalyptus wood with vacuum fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 1651-1663	3.7	7
26	Use of weathered diesel oil as a low-cost raw material for biosurfactant production. <i>Brazilian Journal of Chemical Engineering</i> , 2008 , 25, 269-274	1.7	7
25	Three-stage repeated-batch immobilized cell fermentation to produce butanol from non-detoxified sugarcane bagasse hemicellulose hydrolysates. <i>Bioresource Technology</i> , 2021 , 321, 124504	11	7
24	Monitoramento de indicadores geoquímicos e avaliaç de biodegradaç em ãea contaminada com ãeo diesel. <i>Engenharia Sanitaria E Ambiental</i> , 2007 , 12, 296-304	0.4	6

23	Biodegradability of commercial and weathered diesel oils. <i>Brazilian Journal of Microbiology</i> , 2008 , 39, 133-42	2.2	6
22	Suiting Dynamic Models of Fixed-Bed Catalytic Reactors for Computer-Based Applications. <i>Engineering</i> , 2011 , 03, 778-785	0.4	6
21	Isopropanol-butanol-ethanol (IBE) production in repeated-batch cultivation of <i>Clostridium beijerinckii</i> DSM 6423 immobilized on sugarcane bagasse. <i>Fuel</i> , 2020 , 263, 116708	7.1	6
20	Investigation about the efficiency of the bioaugmentation technique when applied to diesel oil contaminated soils. <i>Brazilian Archives of Biology and Technology</i> , 2009 , 52, 1297-1312	1.8	5
19	Development of a software for simulation analysis of the phenomenon of phase change of three-phase catalytic slurry reactor. <i>Computers and Chemical Engineering</i> , 2005 , 29, 1369-1378	4	5
18	Analysis of Heat Cascade Through Process Components to Reduce the Energy Consumption in Industrial Systems. <i>Process Integration and Optimization for Sustainability</i> , 2019 , 3, 237-254	2	5
17	An Alternative Process for Butanol Production: Continuous Flash Fermentation. <i>Chemical Product and Process Modeling</i> , 2008 , 3,	1.1	4
16	Chapter 4:Butanol Production by Fermentation: Efficient Bioreactors. <i>RSC Green Chemistry</i> , 2015 , 48-70	0.9	4
15	Prediction of overall glucose yield in hydrolysis of pretreated sugarcane bagasse using a single artificial neural network: good insight for process development. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1031-1043	3.5	3
14	Techno-Economic Analysis of Cogeneration of Heat and Electricity and Second-Generation Ethanol Production from Sugarcane 2018 , 197-212		3
13	Avaliaço da disperso de efluente lquido de refinaria de petrleo. <i>Engenharia Sanitaria E Ambiental</i> , 2010 , 15, 251-256	0.4	3
12	Graphical Analysis of Plant-Wide Heat Cascade for Increasing Energy Efficiency in the Production of Ethanol and Sugar from Sugarcane. <i>Process Integration and Optimization for Sustainability</i> , 2021 , 5, 335-359	2	3
11	Less severe reaction conditions to produce levulinic acid with reduced humins formation at the expense of lower biomass conversion: Is it economically feasible?. <i>Fuel Communications</i> , 2021 , 9, 100029 ¹		3
10	Co-fermentation of sugarcane bagasse hydrolysate and molasses by <i>Clostridium saccharoperbutylacetonicum</i> : Effect on sugar consumption and butanol production. <i>Industrial Crops and Products</i> , 2021 , 167, 113512	5.9	3
9	Genetic Algorithms (Binary and Real Codes) for the Optimisation of a Fermentation Process for Butanol Production. <i>International Journal of Chemical Reactor Engineering</i> , 2010 , 8,	1.2	2
8	Optimization of a Three-Phase Catalytic Slurry Reactor Using Reduced Statistical Models. <i>International Journal of Chemical Reactor Engineering</i> , 2010 , 8,	1.2	1
7	Development of Rigorous and Reduced Heterogeneous Dynamic Models for Fixed Bed Catalytic Reactor and Three-Phase Catalytic Slurry Reactor. <i>Chemical Product and Process Modeling</i> , 2008 , 3,	1.1	1
6	Techno-economic analysis of process alternatives for the production of ethylene-propylene rubber from forest-based feedstocks,. <i>Tappi Journal</i> , 2013 , 12, 19-32	0.5	1

5	The E-S-T Method Based on the Grand Composite Curve Links Energy Consumption with Number of Stages and Stage Temperatures for Binary Mixture Distillation. <i>Process Integration and Optimization for Sustainability</i> ,1	2	1
4	Organosolv fractionation of eucalyptus: Economics of cellulosic ethanol and chemicals versus lignin valorization to phenols and polyols. <i>Industrial Crops and Products</i> , 2021 , 173, 114097	5.9	1
3	AN APPROACH TO OPTIMIZATION OF A THREE PHASE CATALYTIC SLURRY REACTOR BY EVOLUTIONARY OPTIMIZATION WITH GENETIC ALGORITHMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 373-378		0
2	Isopropanol-butanol-ethanol production by cell-immobilized vacuum fermentation. <i>Bioresource Technology</i> , 2022 , 344, 126313	11	0
1	Development of a software for simulation analysis of the phenomenon of phase change of three-phase catalytic slurry reactor. <i>Computer Aided Chemical Engineering</i> , 2004 , 18, 703-708	0.6	