

# Adriano Mariano

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8586495/adriano-mariano-publications-by-year.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Isopropanol-butanol-ethanol production by cell-immobilized vacuum fermentation. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126313	11	0
57	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> , <b>2021</b> , 319, 124140	11	9
56	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> , <b>2021</b> , 5, 335-339	3.9	3
55	Three-stage repeated-batch immobilized cell fermentation to produce butanol from non-detoxified sugarcane bagasse hemicellulose hydrolysates. <i>Bioresource Technology</i> , <b>2021</b> , 321, 124504	11	7
54	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> , <b>2021</b> , 9, 100029 <sup>1</sup>		3
53	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> , <b>2021</b> , 167, 113512	5.9	3
52	Organosolv fractionation of eucalyptus: Economics of cellulosic ethanol and chemicals versus lignin valorization to phenols and polyols. <i>Industrial Crops and Products</i> , <b>2021</b> , 173, 114097	5.9	1
51	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> , <b>2020</b> , 314, 123712	11	8
50	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> , <b>2020</b> , 6, 58	4.7	13
49	Isopropanol-butanol-ethanol (IBE) production in repeated-batch cultivation of <i>Clostridium beijerinckii</i> DSM 6423 immobilized on sugarcane bagasse. <i>Fuel</i> , <b>2020</b> , 263, 116708	7.1	6
48	Enabling butanol production from crude sugarcane bagasse hemicellulose hydrolysate by batch-feeding it into molasses fermentation. <i>Industrial Crops and Products</i> , <b>2020</b> , 155, 112837	5.9	10
47	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> , <b>2019</b> , 126, 190-198	5.3	20
46	Acetone-free biobutanol production: Past and recent advances in the Isopropanol-Butanol-Ethanol (IBE) fermentation. <i>Bioresource Technology</i> , <b>2019</b> , 287, 121425	11	20
45	Analysis of Heat Cascade Through Process Components to Reduce the Energy Consumption in Industrial Systems. <i>Process Integration and Optimization for Sustainability</i> , <b>2019</b> , 3, 237-254	2	5
44	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> , <b>2018</b> , 93, 1031-1043	3.5	3
43	Making Levulinic Acid and Ethyl Levulinate Economically Viable: A Worldwide Technoeconomic and Environmental Assessment of Possible Routes. <i>Energy Technology</i> , <b>2018</b> , 6, 613-639	3.5	59
42	Resolving mismatches in the flexible production of ethanol and butanol from eucalyptus wood with vacuum fermentation. <i>Bioprocess and Biosystems Engineering</i> , <b>2018</b> , 41, 1651-1663	3.7	7

41	Jet fuel production in eucalyptus pulp mills: Economics and carbon footprint of ethanol vs. butanol pathway. <i>Bioresource Technology</i> , <b>2018</b> , 268, 9-19	11	18
40	Techno-Economic Analysis of Cogeneration of Heat and Electricity and Second-Generation Ethanol Production from Sugarcane <b>2018</b> , 197-212		3
39	Process design and economics of a flexible ethanol-butanol plant annexed to a eucalyptus kraft pulp mill. <i>Bioresource Technology</i> , <b>2018</b> , 250, 345-354	11	13
38	Economic potential of 2-methyltetrahydrofuran (MTHF) and ethyl levulinate (EL) produced from hemicelluloses-derived furfural. <i>Biomass and Bioenergy</i> , <b>2018</b> , 119, 492-502	5.3	23
37	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> , <b>2015</b> , 160, 120-131	10.7	64
36	Chapter 4:Butanol Production by Fermentation: Efficient Bioreactors. <i>RSC Green Chemistry</i> , <b>2015</b> , 48-70	0.9	4
35	Optimization of lipids production by <i>Cryptococcus laurentii</i> 11 using cheese whey with molasses. <i>Brazilian Journal of Microbiology</i> , <b>2014</b> , 45, 379-87	2.2	25
34	Butanol production in a first-generation Brazilian sugarcane biorefinery: technical aspects and economics of greenfield projects. <i>Bioresource Technology</i> , <b>2013</b> , 135, 316-23	11	104
33	Utilization of pentoses from sugarcane biomass: techno-economics of biogas vs. butanol production. <i>Bioresource Technology</i> , <b>2013</b> , 142, 390-9	11	71
32	Comparison of two lipid extraction methods produced by yeast in cheese whey. <i>Brazilian Archives of Biology and Technology</i> , <b>2013</b> , 56, 629-636	1.8	14
31	Techno-economic analysis of process alternatives for the production of ethylene-propylene rubber from forest-based feedstocks,. <i>Tappi Journal</i> , <b>2013</b> , 12, 19-32	0.5	1
30	Energy requirements during butanol production and in situ recovery by cyclic vacuum. <i>Renewable Energy</i> , <b>2012</b> , 47, 183-187	8.1	37
29	Assessment of in situ butanol recovery by vacuum during acetone butanol ethanol (ABE) fermentation. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2012</b> , 87, 334-340	3.5	57
28	Improvements in Biobutanol Fermentation and Their Impacts on Distillation Energy Consumption and Wastewater Generation. <i>Bioenergy Research</i> , <b>2012</b> , 5, 504-514	3.1	57
27	Energy Requirements for Butanol Recovery Using the Flash Fermentation Technology. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 2347-2355	4.1	78
26	Analysis of the particle swarm algorithm in the optimization of a three-phase slurry catalytic reactor. <i>Computers and Chemical Engineering</i> , <b>2011</b> , 35, 2741-2749	4	8
25	Bioproduction of butanol in bioreactors: new insights from simultaneous in situ butanol recovery to eliminate product toxicity. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 1757-65	4.9	93
24	Suiting Dynamic Models of Fixed-Bed Catalytic Reactors for Computer-Based Applications. <i>Engineering</i> , <b>2011</b> , 03, 778-785	0.4	6

23	Avaliaçã da dispersã de efluente líquido de refinaria de petrleo. <i>Engenharia Sanitaria E Ambiental</i> , <b>2010</b> , 15, 251-256	0.4	3
22	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> , <b>2010</b> , 53, 1217-1224	1.8	9
21	Optimization of a Three-Phase Catalytic Slurry Reactor Using Reduced Statistical Models. <i>International Journal of Chemical Reactor Engineering</i> , <b>2010</b> , 8,	1.2	1
20	Genetic Algorithms (Binary and Real Codes) for the Optimisation of a Fermentation Process for Butanol Production. <i>International Journal of Chemical Reactor Engineering</i> , <b>2010</b> , 8,	1.2	2
19	Dynamics and control strategies for a butanol fermentation process. <i>Applied Biochemistry and Biotechnology</i> , <b>2010</b> , 160, 2424-48	3.2	8
18	Optimisation of a fermentation process for butanol production by particle swarm optimisation (PSO). <i>Journal of Chemical Technology and Biotechnology</i> , <b>2010</b> , 85, 934-949	3.5	13
17	Optimisation of a continuous flash fermentation for butanol production using the response surface methodology. <i>Chemical Engineering Research and Design</i> , <b>2010</b> , 88, 562-571	5.5	23
16	Investigation about the efficiency of the bioaugmentation technique when applied to diesel oil contaminated soils. <i>Brazilian Archives of Biology and Technology</i> , <b>2009</b> , 52, 1297-1312	1.8	5
15	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> , <b>2009</b> , 52, 1043-1055	1.8	17
14	Optimization strategies based on sequential quadratic programming applied for a fermentation process for butanol production. <i>Applied Biochemistry and Biotechnology</i> , <b>2009</b> , 159, 366-81	3.2	11
13	Aerobic biodegradation of butanol and gasoline blends. <i>Biomass and Bioenergy</i> , <b>2009</b> , 33, 1175-1181	5.3	17
12	Biosurfactant synthesis by <i>Pseudomonas aeruginosa</i> LBI isolated from a hydrocarbon-contaminated site. <i>Journal of Applied Microbiology</i> , <b>2008</b> , 105, 1484-90	4.7	46
11	An Alternative Process for Butanol Production: Continuous Flash Fermentation. <i>Chemical Product and Process Modeling</i> , <b>2008</b> , 3,	1.1	4
10	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> , <b>2008</b> , 3,	1.1	1
9	Biodegradability of commercial and weathered diesel oils. <i>Brazilian Journal of Microbiology</i> , <b>2008</b> , 39, 133-142	2.2	36
8	Use of weathered diesel oil as a low-cost raw material for biosurfactant production. <i>Brazilian Journal of Chemical Engineering</i> , <b>2008</b> , 25, 269-274	1.7	7
7	Biodegradability of commercial and weathered diesel oils. <i>Brazilian Journal of Microbiology</i> , <b>2008</b> , 39, 133-42	2.2	6
6	Monitoramento de indicadores geoquímicos e avaliaçã de biodegradaçã em ãea contaminada com ãeo diesel. <i>Engenharia Sanitaria E Ambiental</i> , <b>2007</b> , 12, 296-304	0.4	6

5	Laboratory study on the bioremediation of diesel oil contaminated soil from a petrol station. <i>Brazilian Journal of Microbiology</i> , <b>2007</b> , 38, 346-353	2.2	62
4	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> , <b>2007</b> , 40, 373-378		0
3	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> , <b>2005</b> , 29, 1369-1378	4	5
2	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> , <b>2004</b> , 18, 703-708	0.6	
1	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> , <sup>1</sup>	2	1