

Edvaldo Morais

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

355
citations

932766

10
h-index

794141

19
g-index

25
all docs

25
docs citations

25
times ranked

380
citing authors

#	ARTICLE	IF	CITATIONS
1	Paradigm shift in xylose isomerase usage: a novel scenario with distinct applications. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 693-712.	5.1	8
2	Integration of first- and second-generation ethanol production: Evaluation of a mathematical model to describe sucrose and xylose co-fermentation by recombinant <i>Saccharomyces cerevisiae</i> . <i>Renewable Energy</i> , 2022, 192, 326-339.	4.3	4
3	Dynamic Modeling Application To Evaluate the Performance of <i>Spathaspora passalidarum</i> in Second-Generation Ethanol Production: Parametric Dynamics and the Likelihood Confidence Region. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13822-13833.	1.8	4
4	Multiobjective optimization of economic and environmental performance of Fischer-Tropsch biofuels production integrated to sugarcane biorefineries. <i>Industrial Crops and Products</i> , 2021, 170, 113810.	2.5	10
5	Advanced technologies for electricity production in the sugarcane value chain are a strategic option in a carbon reward policy context. <i>Energy Policy</i> , 2021, 159, 112637.	4.2	12
6	Techno-Economic and Environmental Assessment of Biomass Gasification and Fischer-Tropsch Synthesis Integrated to Sugarcane Biorefineries. <i>Energies</i> , 2020, 13, 4576.	1.6	42
7	Process simulation of renewable electricity from sugarcane straw: Techno-economic assessment of retrofit scenarios in Brazil. <i>Journal of Cleaner Production</i> , 2020, 254, 120081.	4.6	38
8	A differential evolution approach to estimate parameters in a temperature-dependent kinetic model for second generation ethanol production under high cell density with <i>Spathaspora passalidarum</i> . <i>Biochemical Engineering Journal</i> , 2020, 161, 107586.	1.8	15
9	A regional approach to determine economic, environmental and social impacts of different sugarcane production systems in Brazil. <i>Biomass and Bioenergy</i> , 2019, 120, 9-20.	2.9	32
10	Economic, environmental, and social impacts of different sugarcane production systems. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 68-82.	1.9	53
11	Sugar Extraction via Moving-Bed Diffusers in Ethanol Production Industry: Phenomenological Modeling and Finite-Volumes Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13769-13782.	1.8	1
12	Sugar extraction by moving-bed diffusers in ethanol production: development of a simulation tool. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1425-1430.	0.3	1
13	Use of the VSB to Assess Biorefinery Strategies. <i>Green Energy and Technology</i> , 2016, , 189-256.	0.4	12
14	Use of VSB to Plan Research Programs and Public Policies. <i>Green Energy and Technology</i> , 2016, , 257-282.	0.4	4
15	Biorefinery Alternatives. <i>Green Energy and Technology</i> , 2016, , 53-132.	0.4	2
16	A vertical integration simplified model for straw recovery as feedstock in sugarcane biorefineries. <i>Biomass and Bioenergy</i> , 2015, 81, 216-223.	2.9	34
17	Techno-Economic Analysis of Second-Generation Ethanol in Brazil: Competitive, Complementary Aspects with First-Generation Ethanol. , 2014, , 1-29.		3
18	Technical and economic assessment of trash recovery in the sugarcane bioenergy production system. <i>Scientia Agricola</i> , 2013, 70, 353-360.	0.6	53

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19	Real-time optimization for lactic acid production from sucrose fermentation by <i>Lactobacillus plantarum</i> . <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1396-1400.	0.3	6
20	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, .	0.5	1
21	Optimization for large scale process based on evolutionary algorithms: Genetic algorithms. <i>Chemical Engineering Journal</i> , 2007, 132, 1-8.	6.6	14
22	Alternative Designs for Fixed Bed Catalytic Reactors. <i>International Journal of Chemical Reactor Engineering</i> , 2004, 2, .	0.6	3
23	Mixed coolant flow for optimal design of fixed bed catalytic reactors. <i>Computer Aided Chemical Engineering</i> , 2003, , 978-983.	0.3	1
24	Development of Dynamic Models for Fixed Bed Catalytic Reactors. <i>Computer Aided Chemical Engineering</i> , 2002, 10, 565-570.	0.3	1