Edvaldo Morais

List of Publications by Year
in descending order

24	355	933447 10	794594 19
papers	citations	h-index	g-index

25	25	25	380
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Technical and economic assessment of trash recovery in the sugarcane bioenergy production system. Scientia Agricola, 2013, 70, 353-360.	1.2	53
2	Economic, environmental, and social impacts of different sugarcane production systems. Biofuels, Bioproducts and Biorefining, 2018, 12, 68-82.	3.7	53
3	Techno-Economic and Environmental Assessment of Biomass Gasification and Fischerâ€“Tropsch Synthesis Integrated to Sugarcane Biorefineries. Energies, 2020, 13, 4576.	3.1	42
4	Process simulation of renewable electricity from sugarcane straw: Techno-economic assessment of retrofit scenarios in Brazil. Journal of Cleaner Production, 2020, 254, 120081.	9.3	38
5	A vertical integration simplified model for straw recovery as feedstock in sugarcane biorefineries. Biomass and Bioenergy, 2015, 81, 216-223.	5.7	34
6	A regional approach to determine economic, environmental and social impacts of different sugarcane production systems in Brazil. Biomass and Bioenergy, 2019, 120, 9-20.	5.7	32
7	A differential evolution approach to estimate parameters in a temperature-dependent kinetic model for second generation ethanol production under high cell density with Spathaspora passalidarum. Biochemical Engineering Journal, 2020, 161, 107586.	3.6	15
8	Optimization for large scale process based on evolutionary algorithms: Genetic algorithms. Chemical Engineering Journal, 2007, 132, 1-8.	12.7	14
9	Use of the VSB to Assess Biorefinery Strategies. Green Energy and Technology, 2016, , 189-256.	0.6	12
10	Advanced technologies for electricity production in the sugarcane value chain are a strategic option in a carbon reward policy context. Energy Policy, 2021, 159, 112637.	8.8	12
11	Multiobjective optimization of economic and environmental performance of Fischer-Tropsch biofuels production integrated to sugarcane biorefineries. Industrial Crops and Products, 2021, 170, 113810.	5.2	10
12	Paradigm shift in xylose isomerase usage: a novel scenario with distinct applications. Critical Reviews in Biotechnology, 2022, 42, 693-712.	9.0	8
13	Real-time optimization for lactic acid production from sucrose fermentation by Lactobacillus plantarum. Computer Aided Chemical Engineering, 2011, 29, 1396-1400.	0.5	6
14	Use of VSB to Plan Research Programs and Public Policies. Green Energy and Technology, 2016, , 257-282.	0.6	4
15	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.	3.7	4
16	Integration of first- and second-generation ethanol production: Evaluation of a mathematical model to describe sucrose and xylose co-fermentation by recombinant Saccharomyces cerevisiae. Renewable Energy, 2022, 192, 326-339.	8.9	4
17	Alternative Designs for Fixed Bed Catalytic Reactors. International Journal of Chemical Reactor Engineering, 2004, 2, .	1.1	3
18	Techno-Economic Analysis of Second-Generation Ethanol in Brazil: Competitive, Complementary Aspects with First-Generation Ethanol. , 2014, , 1-29.		3

#	Article	IF	Citations
19	Biorefinery Alternatives. Green Energy and Technology, 2016, , 53-132.	0.6	2
20	Development of Dynamic Models for Fixed Bed Catalytic Reactors. Computer Aided Chemical Engineering, 2002, 10, 565-570.	0.5	1
21	Mixed coolant flow for optimal design of fixed bed catalytic reactors. Computer Aided Chemical Engineering, 2003, , 978-983.	0.5	1
22	Development of Rigorous and Reduced Heterogeneous Dynamic Models for Fixed Bed Catalytic Reactor and Three-Phase Catalytic Slurry Reactor. Chemical Product and Process Modeling, 2008, 3, .	0.9	1
23	Sugar extraction by moving-bed diffusers in ethanol production: development of a simulation tool. Computer Aided Chemical Engineering, 2016, 38, 1425-1430.	0.5	1
24	Sugar Extraction via Moving-Bed Diffusers in Ethanol Production Industry: Phenomenological Modeling and Finite-Volumes Simulation. Industrial & Engineering Chemistry Research, 2018, 57, 13769-13782.	3.7	1