

Antonio Bonomi

List of Publications by Year in descending order

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66
papers

3,890
citations

109321

35
h-index

123424

61
g-index

70
all docs

70
docs citations

70
times ranked

3473
citing authors

#	ARTICLE	IF	CITATIONS
1	Anaerobic digestion of vinasse from sugarcane ethanol production in Brazil: Challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 888-903.	16.4	319
2	Integrated versus stand-alone second generation ethanol production from sugarcane bagasse and trash. <i>Bioresource Technology</i> , 2012, 103, 152-161.	9.6	294
3	Anaerobic digestion of vinasse from sugarcane biorefineries in Brazil from energy, environmental, and economic perspectives: Profit or expense?. <i>Applied Energy</i> , 2014, 113, 825-835.	10.1	238
4	Second generation ethanol in Brazil: Can it compete with electricity production?. <i>Bioresource Technology</i> , 2011, 102, 8964-8971.	9.6	188
5	Sugarcane processing for ethanol and sugar in Brazil. <i>Environmental Development</i> , 2015, 15, 35-51.	4.1	177
6	Comparative LCA of ethanol versus gasoline in Brazil using different LCIA methods. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 647-658.	4.7	147
7	Biorefineries for the production of first and second generation ethanol and electricity from sugarcane. <i>Applied Energy</i> , 2013, 109, 72-78.	10.1	144
8	Environmental and economic assessment of sugarcane first generation biorefineries in Brazil. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 399-410.	4.1	136
9	Techno-economic and environmental assessment of renewable jet fuel production in integrated Brazilian sugarcane biorefineries. <i>Applied Energy</i> , 2018, 209, 290-305.	10.1	120
10	Techno-economic analysis and climate change impacts of sugarcane biorefineries considering different time horizons. <i>Biotechnology for Biofuels</i> , 2017, 10, 50.	6.2	113
11	Butanol production in a first-generation Brazilian sugarcane biorefinery: Technical aspects and economics of greenfield projects. <i>Bioresource Technology</i> , 2013, 135, 316-323.	9.6	111
12	Life cycle assessment of butanol production in sugarcane biorefineries in Brazil. <i>Journal of Cleaner Production</i> , 2015, 96, 557-568.	9.3	99
13	Integration of microalgae production with industrial biofuel facilities: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1376-1392.	16.4	99
14	Simulation of integrated first and second generation bioethanol production from sugarcane: comparison between different biomass pretreatment methods. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 955-966.	3.0	89
15	Improving second generation ethanol production through optimization of first generation production process from sugarcane. <i>Energy</i> , 2012, 43, 246-252.	8.8	87
16	Trends in global warming and human health impacts related to Brazilian sugarcane ethanol production considering black carbon emissions. <i>Applied Energy</i> , 2013, 104, 576-582.	10.1	85
17	Cogeneration in integrated first and second generation ethanol from sugarcane. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1411-1417.	5.6	81
18	Utilization of pentoses from sugarcane biomass: Techno-economics of biogas vs. butanol production. <i>Bioresource Technology</i> , 2013, 142, 390-399.	9.6	81

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19	Low carbon biofuels and the New Brazilian National Biofuel Policy (RenovaBio): A case study for sugarcane mills and integrated sugarcane-microalgae biorefineries. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109365.	16.4	80
20	Evaluation of process configurations for second generation integrated with first generation bioethanol production from sugarcane. <i>Fuel Processing Technology</i> , 2013, 109, 84-89.	7.2	76
21	Diversifying the technological strategies for recovering bioenergy from the two-phase anaerobic digestion of sugarcane vinasse: An integrated techno-economic and environmental approach. <i>Renewable Energy</i> , 2018, 122, 674-687.	8.9	70
22	Techno-economic assessment of biorefinery technologies for aviation biofuels supply chains in Brazil. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 67-91.	3.7	68
23	Process development and techno-economic analysis of bio-based succinic acid derived from pentoses integrated to a sugarcane biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 1051-1064.	3.7	57
24	Environmental and economic impacts of different sugarcane production systems in the ethanol biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 89-106.	3.7	55
25	Technical and economic assessment of trash recovery in the sugarcane bioenergy production system. <i>Scientia Agricola</i> , 2013, 70, 353-360.	1.2	53
26	Economic, environmental, and social impacts of different sugarcane production systems. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 68-82.	3.7	53
27	Social life cycle assessment of first and second-generation ethanol production technologies in Brazil. <i>International Journal of Life Cycle Assessment</i> , 2018, 23, 617-628.	4.7	52
28	Beyond ethanol, sugar, and electricity: a critical review of product diversification in Brazilian sugarcane mills. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 809-821.	3.7	50
29	Effect of temperature on sugarcane ethanol fermentation: Kinetic modeling and validation under very-high-gravity fermentation conditions. <i>Biochemical Engineering Journal</i> , 2017, 119, 42-51.	3.6	47
30	Techno-Economic and Environmental Assessment of Biomass Gasification and Fischer-Tropsch Synthesis Integrated to Sugarcane Biorefineries. <i>Energies</i> , 2020, 13, 4576.	3.1	42
31	A vision on biomass-to-liquids (BTL) thermochemical routes in integrated sugarcane biorefineries for biojet fuel production. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109607.	16.4	41
32	Techno-economic assessment of bioenergy and biofuel production in integrated sugarcane biorefinery: Identification of technological bottlenecks and economic feasibility of dilute acid pretreatment. <i>Energy</i> , 2020, 199, 117422.	8.8	41
33	Sugarcane as a carbon source: The Brazilian case. <i>Biomass and Bioenergy</i> , 2012, 46, 5-12.	5.7	38
34	Butanol production in a sugarcane biorefinery using ethanol as feedstock. Part I: Integration to a first generation sugarcane distillery. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1441-1451.	5.6	38
35	The Virtual Sugarcane Biorefinery—A Simulation Tool to Support Public Policies Formulation in Bioenergy. <i>Industrial Biotechnology</i> , 2016, 12, 62-67.	0.8	38
36	Electricity Production from Sugarcane Straw Recovered Through Bale System: Assessment of Retrofit Projects. <i>Bioenergy Research</i> , 2019, 12, 865-877.	3.9	38

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37	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.	9.3	38
38	Adsorption characteristics of cellulase and α -glucosidase on Avicel, pretreated sugarcane bagasse, and lignin. <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 681-689.	3.1	30
39	Butanol production in a sugarcane biorefinery using ethanol as feedstock. Part II: Integration to a second generation sugarcane distillery. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1452-1462.	5.6	29
40	Hybrid Input-Output Life Cycle Assessment of First- and Second-Generation Ethanol Production Technologies in Brazil. <i>Journal of Industrial Ecology</i> , 2016, 20, 764-774.	5.5	24
41	Protozoan feeding and bacterial wall growth. <i>Biotechnology and Bioengineering</i> , 1976, 18, 239-252.	3.3	22
42	Environmental impacts of technology learning curve for cellulosic ethanol in Brazil. <i>Industrial Crops and Products</i> , 2017, 106, 31-39.	5.2	22
43	Techno-Economic Assessment and Critical Properties Tuning of Activated Carbons from Pyrolyzed Sugarcane Bagasse. <i>Waste and Biomass Valorization</i> , 2020, 11, 1-13.	3.4	18
44	Implications of regional N_2O emission factors on sugarcane ethanol emissions and granted decarbonization certificates. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111423.	16.4	16
45	Study of influence of yeast cells treatment on sugarcane ethanol fermentation: Operating conditions and kinetics. <i>Biochemical Engineering Journal</i> , 2019, 147, 1-10.	3.6	15
46	Investigation of uncertainties associated with the production of n-butanol through ethanol catalysis in sugarcane biorefineries. <i>Bioresource Technology</i> , 2015, 190, 242-250.	9.6	13
47	Use of the VSB to Assess Biorefinery Strategies. <i>Green Energy and Technology</i> , 2016, , 189-256.	0.6	12
48	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.	8.8	12
49	Economic and environmental assessment of integrated 1st and 2nd generation sugarcane bioethanol production evaluating different 2nd generation process alternatives. <i>Computer Aided Chemical Engineering</i> , 2012, 30, 177-181.	0.5	10
50	Sustainability analysis of bioethanol production in Mexico by a retrofitted sugarcane industry based on the Brazilian expertise. <i>Energy</i> , 2021, 232, 121056.	8.8	10
51	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.	5.2	10
52	Towards Comparable Carbon Credits: Harmonization of LCA Models of Cellulosic Biofuels. <i>Sustainability</i> , 2021, 13, 10371.	3.2	8
53	Bottlenecks and potentials for the gasification of lignocellulosic biomasses and Fischer-Tropsch synthesis: A case study on the production of advanced liquid biofuels in Brazil. <i>Energy Conversion and Management</i> , 2021, 245, 114629.	9.2	8
54	Sustainability Assessment Methodologies. <i>Green Energy and Technology</i> , 2016, , 155-188.	0.6	7

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55	A novel social life cycle assessment method for determining workersâ€™ human development: a case study of the sugarcane biorefineries in Brazil. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 2072-2084.	4.7	7
56	The effects of integrated food and bioenergy cropping systems on crop yields, soil health, and biomass quality: The EU and Brazilian experience. <i>GCB Bioenergy</i> , 2022, 14, 522-538.	5.6	6
57	The Agricultural Production Model. <i>Green Energy and Technology</i> , 2016, , 13-51.	0.6	5
58	Use of VSB to Plan Research Programs and Public Policies. <i>Green Energy and Technology</i> , 2016, , 257-282.	0.6	4
59	Techno-Economic Analysis of Second-Generation Ethanol in Brazil: Competitive, Complementary Aspects with First-Generation Ethanol. , 2014, , 1-29.		3
60	Expansion assessment of the sugarcane and ethanol production in the Llanos Orientales region in Colombia. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 857-872.	3.7	3
61	Future Perspectives of Sugarcane Biofuels. , 2019, , 445-460.		3
62	Techno-economic assessment of HTL integration to the Brazilian sugarcane industry: An evaluation of different scenarios. <i>Industrial Crops and Products</i> , 2021, 173, 114139.	5.2	3
63	Biorefinery Alternatives. <i>Green Energy and Technology</i> , 2016, , 53-132.	0.6	2
64	Sugar extraction by moving-bed diffusers in ethanol production: development of a simulation tool. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1425-1430.	0.5	1
65	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.	3.7	1
66	Simulating scenarios for compost and vinasse use to improve the economics and environmental aspects of representative Colombian sugarcane production systems. <i>Renewable Agriculture and Food Systems</i> , 2020, 35, 579-593.	1.8	1