

Otavio Cavalett

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,541
citations

126708

33
h-index

138251

58
g-index

69
all docs

69
docs citations

69
times ranked

3642
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated versus stand-alone second generation ethanol production from sugarcane bagasse and trash. <i>Bioresource Technology</i> , 2012, 103, 152-161.	4.8	294
2	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.	5.1	238
3	Energy assessment of integrated production systems of grains, pig and fish in small farms in the South Brazil. <i>Ecological Modelling</i> , 2006, 193, 205-224.	1.2	178
4	Sugarcane processing for ethanol and sugar in Brazil. <i>Environmental Development</i> , 2015, 15, 35-51.	1.8	177
5	Life Cycle Assessment of Poly(Lactic Acid) (PLA): Comparison Between Chemical Recycling, Mechanical Recycling and Composting. <i>Journal of Polymers and the Environment</i> , 2016, 24, 372-384.	2.4	153
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.	2.2	147
7	Biorefineries for the production of first and second generation ethanol and electricity from sugarcane. <i>Applied Energy</i> , 2013, 109, 72-78.	5.1	144
8	Environmental and economic assessment of sugarcane first generation biorefineries in Brazil. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 399-410.	2.1	136
9	Integrated environmental assessment of biodiesel production from soybean in Brazil. <i>Journal of Cleaner Production</i> , 2010, 18, 55-70.	4.6	128
10	Techno-economic and environmental assessment of renewable jet fuel production in integrated Brazilian sugarcane biorefineries. <i>Applied Energy</i> , 2018, 209, 290-305.	5.1	120
11	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
12	Enhancing life cycle impact assessment from climate science: Review of recent findings and recommendations for application to LCA. <i>Ecological Indicators</i> , 2016, 71, 163-174.	2.6	108
13	Life cycle assessment of butanol production in sugarcane biorefineries in Brazil. <i>Journal of Cleaner Production</i> , 2015, 96, 557-568.	4.6	99
14	Energy, nutrients balance, and economic assessment of soybean production and industrialization in Brazil. <i>Journal of Cleaner Production</i> , 2009, 17, 762-771.	4.6	90
15	Outlook for ethanol production costs in Brazil up to 2030, for different biomass crops and industrial technologies. <i>Applied Energy</i> , 2015, 147, 593-610.	5.1	89
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.	5.1	85
17	Asserting the climate benefits of the coal-to-gas shift across temporal and spatial scales. <i>Nature Climate Change</i> , 2019, 9, 389-396.	8.1	85
18	Cogeneration in integrated first and second generation ethanol from sugarcane. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1411-1417.	2.7	81

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19	Bridging the gap between impact assessment methods and climate science. <i>Environmental Science and Policy</i> , 2016, 64, 129-140.	2.4	69
20	The land-“energy”-water nexus of global bioenergy potentials from abandoned cropland. <i>Nature Sustainability</i> , 2021, 4, 525-536.	11.5	60
21	Brazilian Soybean Production: Energy Analysis With an Expanded Scope. <i>Bulletin of Science, Technology and Society</i> , 2005, 25, 323-334.	1.1	57
22	Environmental and economic impacts of different sugarcane production systems in the ethanol biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 89-106.	1.9	55
23	Technical and economic assessment of trash recovery in the sugarcane bioenergy production system. <i>Scientia Agricola</i> , 2013, 70, 353-360.	0.6	53
24	Economic, environmental, and social impacts of different sugarcane production systems. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 68-82.	1.9	53
25	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.	2.2	52
26	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
27	Optimal combination of bioenergy and solar photovoltaic for renewable energy production on abandoned cropland. <i>Renewable Energy</i> , 2021, 168, 45-56.	4.3	39
28	Sugarcane as a carbon source: The Brazilian case. <i>Biomass and Bioenergy</i> , 2012, 46, 5-12.	2.9	38
29	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.	2.7	38
30	The Virtual Sugarcane Biorefinery-“A Simulation Tool to Support Public Policies Formulation in Bioenergy. <i>Industrial Biotechnology</i> , 2016, 12, 62-67.	0.5	38
31	Contribution of jet fuel from forest residues to multiple Sustainable Development Goals. <i>Nature Sustainability</i> , 2018, 1, 799-807.	11.5	37
32	Overview of recent land-“cover changes in biodiversity hotspots. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 91-97.	1.9	36
33	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
34	Sugarcane ethanol and beef cattle integration in Brazil. <i>Biomass and Bioenergy</i> , 2019, 120, 448-457.	2.9	34
35	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.	2.7	29
36	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.	2.8	24

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37	Environmental impacts of technology learning curve for cellulosic ethanol in Brazil. <i>Industrial Crops and Products</i> , 2017, 106, 31-39.	2.5	22
38	Energy and Environmental Aspects of Using Eucalyptus from Brazil for Energy and Transportation Services in Europe. <i>Sustainability</i> , 2018, 10, 4068.	1.6	22
39	Life-cycle assessment to unravel co-benefits and trade-offs of large-scale biochar deployment in Norwegian agriculture. <i>Resources, Conservation and Recycling</i> , 2022, 179, 106030.	5.3	22
40	Identifying suitable areas for expanding sugarcane ethanol production in Brazil under conservation of environmentally relevant habitats. <i>Journal of Cleaner Production</i> , 2021, 292, 125318.	4.6	21
41	Climate change mitigation of drop-in biofuels for deep-sea shipping under a prospective life-cycle assessment. <i>Journal of Cleaner Production</i> , 2022, 364, 132662.	4.6	20
42	Participatory energy synthesis of integrated food and biofuel production: a case study from Brazil. <i>Environment, Development and Sustainability</i> , 2012, 14, 167-182.	2.7	12
43	Assessment of lignocellulosic biorefineries in Germany using a hybrid LCA multi-objective optimization model. <i>Journal of Industrial Ecology</i> , 2019, 23, 1172-1185.	2.8	12
44	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
45	Unraveling the potential of sugarcane electricity for climate change mitigation in Brazil. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105878.	5.3	11
46	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.	0.3	10
47	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
48	Life Cycle Assessment of vinasse biogas production in sugarcane biorefineries. <i>Computer Aided Chemical Engineering</i> , 2017, , 2017-2022.	0.3	9
49	Towards Comparable Carbon Credits: Harmonization of LCA Models of Cellulosic Biofuels. <i>Sustainability</i> , 2021, 13, 10371.	1.6	8
50	Addressing the contributions of electricity from biomass in Brazil in the context of the Sustainable Development Goals using life cycle assessment methods. <i>Journal of Industrial Ecology</i> , 2022, 26, 980-995.	2.8	8
51	LCA and negative emission potential of retrofitted cement plants under oxyfuel conditions at high biogenic fuel shares. <i>Scientific Reports</i> , 2022, 12, .	1.6	8
52	Sustainability Assessment Methodologies. <i>Green Energy and Technology</i> , 2016, , 155-188.	0.4	7
53	A novel social life cycle assessment method for determining workers' human development: a case study of the sugarcane biorefineries in Brazil. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 2072-2084.	2.2	7
54	From political to climate crisis. <i>Nature Climate Change</i> , 2018, 8, 663-664.	8.1	6

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55	Opportunities and challenges for bioenergy-livestock integrated systems in Brazil. <i>Industrial Crops and Products</i> , 2021, 173, 114091.	2.5	6
56	Techno-economic and environmental assessment of bioenergy and livestock integrated systems in Brazil. <i>Sustainable Production and Consumption</i> , 2022, 32, 580-592.	5.7	6
57	Energy and fair trade assessment of soybean production and processing in Brazil. <i>Management of Environmental Quality</i> , 2007, 18, 657-668.	2.2	5
58	The Agricultural Production Model. <i>Green Energy and Technology</i> , 2016, , 13-51.	0.4	5
59	The Role of Small-Scale Biofuel Production in Brazil: Lessons for Developing Countries. <i>Agriculture (Switzerland)</i> , 2017, 7, 61.	1.4	5
60	Unraveling the role of biofuels in road transport under rapid electrification. <i>Biofuels, Bioproducts and Biorefining</i> , 0, , .	1.9	4
61	Techno-Economic Analysis of Second-Generation Ethanol in Brazil: Competitive, Complementary Aspects with First-Generation Ethanol. , 2014, , 1-29.		3
62	Environmental and economic assessment of the co-firing of the coal-bagasse mixture in the Colombian sugarcane mills. <i>Revista UIS Ingenierías</i> , 2019, 18, 77-88.	0.1	2
63	Evaluation of different cogeneration systems in first and second generation ethanol production from sugarcane. <i>Computer Aided Chemical Engineering</i> , 2012, , 172-176.	0.3	1
64	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.	0.8	1