

Diego Iribarren

List of Publications by Year in descending order

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104
papers

5,034
citations

53794

45
h-index

98798

67
g-index

108
all docs

108
docs citations

108
times ranked

4474
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass Pyrolysis for Biochar or Energy Applications? A Life Cycle Assessment. <i>Environmental Science & Technology</i> , 2015, 49, 5195-5202.	10.0	177
2	Life cycle assessment of transportation fuels from biomass pyrolysis. <i>Fuel</i> , 2012, 97, 812-821.	6.4	172
3	Joint life cycle assessment and data envelopment analysis of grape production for vinification in the R�as Baixas appellation (NW Spain). <i>Journal of Cleaner Production</i> , 2012, 27, 92-102.	9.3	172
4	A review of life-cycle approaches coupled with data envelopment analysis within multi-criteria decision analysis for sustainability assessment of energy systems. <i>Journal of Cleaner Production</i> , 2017, 150, 164-174.	9.3	159
5	Benchmarking environmental and operational parameters through eco-efficiency criteria for dairy farms. <i>Science of the Total Environment</i> , 2011, 409, 1786-1798.	8.0	154
6	The link between operational efficiency and environmental impacts. <i>Science of the Total Environment</i> , 2009, 407, 1744-1754.	8.0	143
7	Environmental and exergetic evaluation of hydrogen production via lignocellulosic biomass gasification. <i>Journal of Cleaner Production</i> , 2014, 69, 165-175.	9.3	137
8	Life-cycle performance of indirect biomass gasification as a green alternative to steam methane reforming for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9961-9972.	7.1	117
9	Simulation and life cycle assessment of biofuel production via fast pyrolysis and hydrougrading. <i>Fuel</i> , 2015, 139, 441-456.	6.4	114
10	Review of life-cycle environmental consequences of waste-to-energy solutions on the municipal solid waste management system. <i>Resources, Conservation and Recycling</i> , 2020, 157, 104778.	10.8	112
11	Life cycle assessment of biodiesel production from free fatty acid-rich wastes. <i>Renewable Energy</i> , 2012, 38, 155-162.	8.9	106
12	Further potentials in the joint implementation of life cycle assessment and data envelopment analysis. <i>Science of the Total Environment</i> , 2010, 408, 5265-5272.	8.0	103
13	Life cycle assessment of two alternative bioenergy systems involving <i>Salix</i> spp. biomass: Bioethanol production and power generation. <i>Applied Energy</i> , 2012, 95, 111-122.	10.1	101
14	A review of techno-economic data for road transportation fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 11-26.	16.4	93
15	Life-cycle performance of hydrogen production via indirect biomass gasification with CO2 capture. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19484-19491.	7.1	88
16	Harmonised life-cycle global warming impact of renewable hydrogen. <i>Journal of Cleaner Production</i> , 2017, 149, 762-772.	9.3	85
17	On the feasibility of using emergy analysis as a source of benchmarking criteria through data envelopment analysis: A case study for wind energy. <i>Energy</i> , 2014, 67, 527-537.	8.8	78
18	Environmental impact efficiency in mussel cultivation. <i>Resources, Conservation and Recycling</i> , 2010, 54, 1269-1277.	10.8	77

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19	Life cycle sustainability assessment of hydrogen from biomass gasification: A comparison with conventional hydrogen. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21193-21203.	7.1	73
20	Carbon footprint of canned mussels from a business-to-consumer approach. A starting point for mussel processors and policy makers. <i>Environmental Science and Policy</i> , 2010, 13, 509-521.	4.9	72
21	Estimation of the carbon footprint of the Galician fishing activity (NW Spain). <i>Science of the Total Environment</i> , 2010, 408, 5284-5294.	8.0	71
22	Revisiting the Life Cycle Assessment of mussels from a sectorial perspective. <i>Journal of Cleaner Production</i> , 2010, 18, 101-111.	9.3	70
23	Life Cycle Assessment of fresh and canned mussel processing and consumption in Galicia (NW Spain). <i>Resources, Conservation and Recycling</i> , 2010, 55, 106-117.	10.8	66
24	On the environmental suitability of high- and low-enthalpy geothermal systems. <i>Geothermics</i> , 2015, 53, 27-37.	3.4	65
25	Comparative life cycle assessment of hydrogen-fuelled passenger cars. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35961-35973.	7.1	64
26	Revisiting the role of steam methane reforming with CO ₂ capture and storage for long-term hydrogen production. <i>Science of the Total Environment</i> , 2021, 771, 145432.	8.0	64
27	Robust eco-efficiency assessment of hydrogen from biomass gasification as an alternative to conventional hydrogen: A life-cycle study with and without external costs. <i>Science of the Total Environment</i> , 2019, 650, 1465-1475.	8.0	61
28	Prospective analysis of energy security: A practical life-cycle approach focused on renewable power generation and oriented towards policy-makers. <i>Applied Energy</i> , 2017, 190, 891-901.	10.1	60
29	Environmental benchmarking of wind farms according to their operational performance. <i>Energy</i> , 2013, 61, 589-597.	8.8	57
30	Life cycle assessment and data envelopment analysis approach for the selection of building components according to their environmental impact efficiency: a case study for external walls. <i>Journal of Cleaner Production</i> , 2015, 87, 707-716.	9.3	57
31	End of life of fuel cells and hydrogen products: From technologies to strategies. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20965-20977.	7.1	57
32	Prospective techno-economic and environmental assessment of a national hydrogen production mix for road transport. <i>Applied Energy</i> , 2020, 259, 114121.	10.1	57
33	Simulation and life cycle assessment of synthetic fuels produced via biogas dry reforming and Fischer-Tropsch synthesis. <i>Fuel</i> , 2019, 235, 1492-1500.	6.4	56
34	Integration of life-cycle indicators into energy optimisation models: the case study of power generation in Norway. <i>Journal of Cleaner Production</i> , 2016, 112, 2693-2696.	9.3	55
35	Energy balance and life cycle assessment of a microalgae-based wastewater treatment plant: A focus on alternative biogas uses. <i>Bioresource Technology</i> , 2018, 270, 138-146.	9.6	55
36	Environmental and thermodynamic evaluation of CO ₂ capture, transport and storage with and without enhanced resource recovery. <i>Energy</i> , 2013, 50, 477-485.	8.8	54

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37	Environmental impact efficiency of natural gas combined cycle power plants: A combined life cycle assessment and dynamic data envelopment analysis approach. <i>Science of the Total Environment</i> , 2018, 615, 29-37.	8.0	53
38	Implementing by-product management into the Life Cycle Assessment of the mussel sector. <i>Resources, Conservation and Recycling</i> , 2010, 54, 1219-1230.	10.8	51
39	Exergy analysis of hydrogen production via biogas dry reforming. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11688-11695.	7.1	50
40	Assessing the social acceptance of hydrogen for transportation in Spain: An unintentional focus on target population for a potential hydrogen economy. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5203-5208.	7.1	48
41	Computation of Operational and Environmental Benchmarks Within Selected Galician Fishing Fleets. <i>Journal of Industrial Ecology</i> , 2011, 15, 776-795.	5.5	47
42	Review of Life-Cycle Approaches Coupled with Data Envelopment Analysis: Launching the CFP + DEA Method for Energy Policy Making. <i>Scientific World Journal</i> , The, 2015, 2015, 1-10.	2.1	47
43	Assessing the Life-Cycle Performance of Hydrogen Production via Biofuel Reforming in Europe. <i>Resources</i> , 2015, 4, 398-411.	3.5	45
44	Delving into sensible measures to enhance the environmental performance of biohydrogen: A quantitative approach based on process simulation, life cycle assessment and data envelopment analysis. <i>Bioresource Technology</i> , 2016, 214, 376-385.	9.6	45
45	Harmonising the cumulative energy demand of renewable hydrogen for robust comparative life-cycle studies. <i>Journal of Cleaner Production</i> , 2018, 175, 384-393.	9.3	45
46	Comparative life cycle sustainability assessment of renewable and conventional hydrogen. <i>Science of the Total Environment</i> , 2021, 756, 144132.	8.0	43
47	Exergy analysis of alternative configurations of a system coproducing synthetic fuels and electricity via biomass gasification, Fischer-Tropsch synthesis and a combined-cycle scheme. <i>Fuel</i> , 2017, 194, 375-394.	6.4	40
48	Using harmonised life-cycle indicators to explore the role of hydrogen in the environmental performance of fuel cell electric vehicles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25758-25765.	7.1	39
49	Screening of socio-economic indicators for sustainability assessment: a combined life cycle assessment and data envelopment analysis approach. <i>International Journal of Life Cycle Assessment</i> , 2016, 21, 202-214.	4.7	38
50	Life-cycle assessment of Fischer-Tropsch products from biosyngas. <i>Renewable Energy</i> , 2013, 59, 229-236.	8.9	36
51	Prospective Analysis of Life-Cycle Indicators through Endogenous Integration into a National Power Generation Model. <i>Resources</i> , 2016, 5, 39.	3.5	36
52	Harmonising methodological choices in life cycle assessment of hydrogen: A focus on acidification and renewable hydrogen. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19426-19433.	7.1	35
53	Prospective carbon footprint comparison of hydrogen options. <i>Science of the Total Environment</i> , 2020, 728, 138212.	8.0	34
54	Sustainability-oriented efficiency of retail supply chains: A combination of Life Cycle Assessment and dynamic network Data Envelopment Analysis. <i>Science of the Total Environment</i> , 2020, 705, 135977.	8.0	33

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55	Updating the carbon footprint of the Galician fishing activity (NW Spain). <i>Science of the Total Environment</i> , 2011, 409, 1609-1611.	8.0	32
56	Potential environmental effects of probiotics used in aquaculture. <i>Aquaculture International</i> , 2012, 20, 779-789.	2.2	32
57	Long-term production technology mix of alternative fuels for road transport: A focus on Spain. <i>Energy Conversion and Management</i> , 2020, 226, 113498.	9.2	31
58	An integrated techno-economic, environmental and social assessment of the solar thermochemical fuel pathway. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3992-4002.	4.9	31
59	Prospective energy security scenarios in Spain: The future role of renewable power generation technologies and climate change implications. <i>Renewable Energy</i> , 2018, 126, 202-209.	8.9	30
60	Combined use of Data Envelopment Analysis and Life Cycle Assessment for operational and environmental benchmarking in the service sector: A case study of grocery stores. <i>Science of the Total Environment</i> , 2019, 667, 799-808.	8.0	30
61	Is coal extension a sensible option for energy planning? A combined energy systems modelling and life cycle assessment approach. <i>Energy Policy</i> , 2018, 114, 413-421.	8.8	29
62	Long-term opportunities for electricity production through municipal solid waste incineration when internalising external costs. <i>Journal of Cleaner Production</i> , 2019, 215, 870-877.	9.3	28
63	Energy-socio-economic-environmental modelling for the EU energy and post-COVID-19 transitions. <i>Science of the Total Environment</i> , 2022, 805, 150329.	8.0	27
64	On the feasibility of producing hydrogen with net carbon fixation by the decomposition of vegetable and microalgal oils. <i>Energy and Environmental Science</i> , 2012, 5, 6126.	30.8	26
65	Life-cycle performance of hydrogen as an energy management solution in hydropower plants: A case study in Central Italy. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16660-16672.	7.1	26
66	How do methodological choices affect the carbon footprint of microalgal biodiesel? A harmonised life cycle assessment. <i>Journal of Cleaner Production</i> , 2019, 207, 560-568.	9.3	24
67	Life-cycle consequences of internalising socio-environmental externalities of power generation. <i>Science of the Total Environment</i> , 2018, 612, 386-391.	8.0	23
68	Preliminary assessment of plastic waste valorization via sequential pyrolysis and catalytic reforming. <i>Journal of Material Cycles and Waste Management</i> , 2012, 14, 301-307.	3.0	22
69	Is Labor a Suitable Input in LCA + DEA Studies? Insights on the Combined Use of Economic, Environmental and Social Parameters. <i>Social Sciences</i> , 2013, 2, 114-130.	1.4	21
70	Prospective Life Cycle Assessment of the Increased Electricity Demand Associated with the Penetration of Electric Vehicles in Spain. <i>Energies</i> , 2018, 11, 1185.	3.1	20
71	A protocol for the definition of supply chains in product social life cycle assessment: application to bioelectricity. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5533-5542.	4.9	20
72	A taxonomy of models for investigating hydrogen energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112698.	16.4	19

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73	Efficiency assessment of diets in the Spanish regions: A multi-criteria cross-cutting approach. <i>Journal of Cleaner Production</i> , 2020, 242, 118491.	9.3	18
74	Life cycle assessment of volatile fatty acids production from protein- and carbohydrate-rich organic wastes. <i>Bioresource Technology</i> , 2021, 321, 124528.	9.6	16
75	Social life cycle assessment of green methanol and benchmarking against conventional fossil methanol. <i>Science of the Total Environment</i> , 2022, 824, 153840.	8.0	16
76	Sustainability-oriented management of retail stores through the combination of life cycle assessment and dynamic data envelopment analysis. <i>Science of the Total Environment</i> , 2019, 683, 49-60.	8.0	15
77	Influence of climate change externalities on the sustainability-oriented prioritisation of prospective energy scenarios. <i>Energy</i> , 2020, 196, 117179.	8.8	15
78	Life cycle performance of natural gas power plants with pre-combustion CO ₂ capture. <i>Energy</i> , 2015, 5, 268-276.		14
79	Dynamic Ecocentric Assessment Combining Energy and Data Envelopment Analysis: Application to Wind Farms. <i>Resources</i> , 2016, 5, 8.	3.5	13
80	Life cycle sustainability assessment of synthetic fuels from date palm waste. <i>Science of the Total Environment</i> , 2021, 796, 148961.	8.0	13
81	Life Cycle Costing and Eco-Efficiency Assessment of Fuel Production by Coprocessing Biomass in Crude Oil Refineries. <i>Energies</i> , 2019, 12, 4664.	3.1	12
82	Sensitivity of operational and environmental benchmarks of retail stores to decision-makers' preferences through Data Envelopment Analysis. <i>Science of the Total Environment</i> , 2020, 718, 137330.	8.0	12
83	Enhanced prioritisation of prospective scenarios for power generation in Spain: How and which one?. <i>Energy</i> , 2019, 169, 369-379.	8.8	11
84	Harmonised carbon and energy footprints of fossil hydrogen. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17587-17594.	7.1	11
85	Comparative Social Life Cycle Assessment of Two Biomass-to-Electricity Systems. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4918.	2.6	11
86	Thermodynamic, economic and environmental assessment of energy systems including the use of gas from manure fermentation in the context of the Spanish potential. <i>Energy</i> , 2020, 200, 117452.	8.8	10
87	Hourly marginal electricity mixes and their relevance for assessing the environmental performance of installations with variable load or power. <i>Science of the Total Environment</i> , 2022, 843, 156963.	8.0	10
88	Modeling, simulation and life cycle assessment of the use of bio-oil and char in conventional refineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 30-42.	3.7	9
89	Life cycle assessment of pyrolysis oil applications. <i>Biomass Conversion and Biorefinery</i> , 2015, 5, 1.	4.6	7
90	Coupled life cycle thinking and data envelopment analysis for quantitative sustainability improvement. <i>Energy</i> , 2021, 225, 295-320.		6

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91	Definition, assessment and prioritisation of strategies to mitigate social life-cycle impacts across the supply chain of bioelectricity: A case study in Portugal. <i>Renewable Energy</i> , 2022, 194, 1110-1118.	8.9	6
92	Techno-economic comparison of optimized natural gas combined cycle power plants with CO2 capture. <i>Energy</i> , 2022, 255, 124617.	8.8	6
93	Harmonised life-cycle indicators of nuclear-based hydrogen. <i>International Journal of Hydrogen Energy</i> , 2020, 46, 29724-29724.	7.1	5
94	Validation of GreenH2armony [®] as a Tool for the Computation of Harmonised Life-Cycle Indicators of Hydrogen. <i>Energies</i> , 2020, 13, 1603.	3.1	5
95	Lessons for regional energy modelling: enhancing demand-side transport and residential policies in Madrid. <i>Regional Studies</i> , 2019, 53, 826-837.	4.4	3
96	Social Life Cycle Assessment of a Proton Exchange Membrane Fuel Cell stack. <i>E3S Web of Conferences</i> , 2022, 334, 09001.	0.5	3
97	Cumulative Energy Demand of Hydrogen Energy Systems. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2019, , 47-75.	1.1	2
98	Towards Energy Self-sufficiency in Large Metropolitan Areas: Business Opportunities on Renewable Electricity in Madrid. , 2018, , 17-31.		1
99	Potentials and Limitations of Combined Life Cycle Approaches and Multi-dimensional Assessment. , 2018, , 313-316.		1
100	Life cycle assessment of trigeneration plants. , 2020, , 125-139.		1
101	Enhancing the Economic Dimension of LCA + DEA Studies for Sustainability Assessment. , 0, , .		1
102	Prospective Assessment of the Carbon Footprint of a National Power Generation System. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2019, , 1-17.	1.1	1
103	Methodology for Carbon Footprint Calculation in Crop and Livestock Production. , 2015, , 80-103.		0
104	Carbon Footprint as a Single Indicator in Energy Systems: The Case of Biofuels and CO2 Capture Technologies. <i>Ecoproduction</i> , 2014, , 81-104.	0.8	0