Diego Iribarren

List of Publications by Year
in descending order

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	Energy-socio-economic-environmental modelling for the EU energy and post-COVID-19 transitions. Science of the Total Environment, 2022, 805, 150329.	8.0	27
2	Social Life Cycle Assessment of a Proton Exchange Membrane Fuel Cell stack. E3S Web of Conferences, 2022, 334, 09001.	0.5	3
3	Social life cycle assessment of green methanol and benchmarking against conventional fossil methanol. Science of the Total Environment, 2022, 824, 153840.	8.0	16
4	Definition, assessment and prioritisation of strategies to mitigate social life-cycle impacts across the supply chain of bioelectricity: A case study in Portugal. Renewable Energy, 2022, 194, 1110-1118.	8.9	6
5	Techno-economic comparison of optimized natural gas combined cycle power plants with CO2 capture. Energy, 2022, 255, 124617.	8.8	6
6	A taxonomy of models for investigating hydrogen energy systems. Renewable and Sustainable Energy Reviews, 2022, 167, 112698.	16.4	19
7	Hourly marginal electricity mixes and their relevance for assessing the environmental performance of installations with variable load or power. Science of the Total Environment, 2022, 843, 156963.	8.0	10
8	Harmonised carbon and energy footprints of fossil hydrogen. International Journal of Hydrogen Energy, 2021, 46, 17587-17594.	7.1	11
9	Life cycle assessment of volatile fatty acids production from protein- and carbohydrate-rich organic wastes. Bioresource Technology, 2021, 321, 124528.	9.6	16
10	Coupled life cycle thinking and data envelopment analysis for quantitative sustainability improvement. , 2021, , 295-320.		6
11	Comparative life cycle sustainability assessment of renewable and conventional hydrogen. Science of the Total Environment, 2021, 756, 144132.	8.0	43
12	Comparative life cycle assessment of hydrogen-fuelled passenger cars. International Journal of Hydrogen Energy, 2021, 46, 35961-35973.	7.1	64
13	Comparative Social Life Cycle Assessment of Two Biomass-to-Electricity Systems. International Journal of Environmental Research and Public Health, 2021, 18, 4918.	2.6	11
14	Revisiting the role of steam methane reforming with CO2 capture and storage for long-term hydrogen production. Science of the Total Environment, 2021, 771, 145432.	8.0	64
15	Life cycle sustainability assessment of synthetic fuels from date palm waste. Science of the Total Environment, 2021, 796, 148961.	8.0	13
16	Modeling, simulation and lifeâ€cycle assessment of the use of bioâ€oil and char in conventional refineries. Biofuels, Bioproducts and Biorefining, 2020, 14, 30-42.	3.7	9
17	Using harmonised life-cycle indicators to explore the role of hydrogen in the environmental performance of fuel cell electric vehicles. International Journal of Hydrogen Energy, 2020, 45, 25758-25765.	7.1	39
18	Efficiency assessment of diets in the Spanish regions: A multi-criteria cross-cutting approach. Journal of Cleaner Production, 2020, 242, 118491.	9.3	18

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19	Sustainability-oriented efficiency of retail supply chains: A combination of Life Cycle Assessment and dynamic network Data Envelopment Analysis. Science of the Total Environment, 2020, 705, 135977.	8.0	33
20	Prospective techno-economic and environmental assessment of a national hydrogen production mix for road transport. Applied Energy, 2020, 259, 114121.	10.1	57
21	Harmonised life-cycle indicators of nuclear-based hydrogen. International Journal of Hydrogen Energy, 2020, 46, 29724-29724.	7.1	5
22	Long-term production technology mix of alternative fuels for road transport: A focus on Spain. Energy Conversion and Management, 2020, 226, 113498.	9.2	31
23	A protocol for the definition of supply chains in product social life cycle assessment: application to bioelectricity. Sustainable Energy and Fuels, 2020, 4, 5533-5542.	4.9	20
24	Life cycle assessment of trigeneration plants. , 2020, , 125-139.		1
25	An integrated techno-economic, environmental and social assessment of the solar thermochemical fuel pathway. Sustainable Energy and Fuels, 2020, 4, 3992-4002.	4.9	31
26	Thermodynamic, economic and environmental assessment of energy systems including the use of gas from manure fermentation in the context of the Spanish potential. Energy, 2020, 200, 117452.	8.8	10
27	Influence of climate change externalities on the sustainability-oriented prioritisation of prospective energy scenarios. Energy, 2020, 196, 117179.	8.8	15
28	Review of life-cycle environmental consequences of waste-to-energy solutions on the municipal solid waste management system. Resources, Conservation and Recycling, 2020, 157, 104778.	10.8	112
29	Sensitivity of operational and environmental benchmarks of retail stores to decision-makers' preferences through Data Envelopment Analysis. Science of the Total Environment, 2020, 718, 137330.	8.0	12
30	Prospective carbon footprint comparison of hydrogen options. Science of the Total Environment, 2020, 728, 138212.	8.0	34
31	Validation of GreenH2armonyÂ® as a Tool for the Computation of Harmonised Life-Cycle Indicators of Hydrogen. Energies, 2020, 13, 1603.	3.1	5
32	Lessons for regional energy modelling: enhancing demand-side transport and residential policies in Madrid. Regional Studies, 2019, 53, 826-837.	4.4	3
33	Long-term opportunities for electricity production through municipal solid waste incineration when internalising external costs. Journal of Cleaner Production, 2019, 215, 870-877.	9.3	28
34	End of life of fuel cells and hydrogen products: From technologies to strategies. International Journal of Hydrogen Energy, 2019, 44, 20965-20977.	7.1	57
35	Life cycle sustainability assessment of hydrogen from biomass gasification: A comparison with conventional hydrogen. International Journal of Hydrogen Energy, 2019, 44, 21193-21203.	7.1	73
36	Sustainability-oriented management of retail stores through the combination of life cycle assessment and dynamic data envelopment analysis. Science of the Total Environment, 2019, 683, 49-60.	8.0	15

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37	A review of techno-economic data for road transportation fuels. Renewable and Sustainable Energy Reviews, 2019, 112, 11-26.	16.4	93
38	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. Science of the Total Environment, 2019, 667, 799-808.	8.0	30
39	Life Cycle Costing and Eco-Efficiency Assessment of Fuel Production by Coprocessing Biomass in Crude Oil Refineries. Energies, 2019, 12, 4664.	3.1	12
40	Robust eco-efficiency assessment of hydrogen from biomass gasification as an alternative to conventional hydrogen: A life-cycle study with and without external costs. Science of the Total Environment, 2019, 650, 1465-1475.	8.0	61
41	Cumulative Energy Demand of Hydrogen Energy Systems. Environmental Footprints and Eco-design of Products and Processes, 2019, , 47-75.	1.1	2
42	Enhanced prioritisation of prospective scenarios for power generation in Spain: How and which one?. Energy, 2019, 169, 369-379.	8.8	11
43	Simulation and life cycle assessment of synthetic fuels produced via biogas dry reforming and Fischer-Tropsch synthesis. Fuel, 2019, 235, 1492-1500.	6.4	56
44	How do methodological choices affect the carbon footprint of microalgal biodiesel? A harmonised life cycle assessment. Journal of Cleaner Production, 2019, 207, 560-568.	9.3	24
45	Harmonising methodological choices in life cycle assessment of hydrogen: A focus on acidification and renewable hydrogen. International Journal of Hydrogen Energy, 2019, 44, 19426-19433.	7.1	35
46	Prospective Assessment of the Carbon Footprint of a National Power Generation System. Environmental Footprints and Eco-design of Products and Processes, 2019, , 1-17.	1.1	1
47	Exergy analysis of hydrogen production via biogas dry reforming. International Journal of Hydrogen Energy, 2018, 43, 11688-11695.	7.1	50
48	Prospective energy security scenarios in Spain: The future role of renewable power generation technologies and climate change implications. Renewable Energy, 2018, 126, 202-209.	8.9	30
49	Towards Energy Self-sufficiency in Large Metropolitan Areas: Business Opportunities on Renewable Electricity in Madrid. , 2018, , 17-31.		1
50	Harmonising the cumulative energy demand of renewable hydrogen for robust comparative life-cycle studies. Journal of Cleaner Production, 2018, 175, 384-393.	9.3	45
51	Is coal extension a sensible option for energy planning? A combined energy systems modelling and life cycle assessment approach. Energy Policy, 2018, 114, 413-421.	8.8	29
52	Environmental impact efficiency of natural gas combined cycle power plants: A combined life cycle assessment and dynamic data envelopment analysis approach. Science of the Total Environment, 2018, 615, 29-37.	8.0	53
53	Life-cycle consequences of internalising socio-environmental externalities of power generation. Science of the Total Environment, 2018, 612, 386-391.	8.0	23
54	Energy balance and life cycle assessment of a microalgae-based wastewater treatment plant: A focus on alternative biogas uses. Bioresource Technology, 2018, 270, 138-146.	9.6	55

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55	Potentials and Limitations of Combined Life Cycle Approaches and Multi-dimensional Assessment. , 2018, , 313-316.		1
56	Prospective Life Cycle Assessment of the Increased Electricity Demand Associated with the Penetration of Electric Vehicles in Spain. Energies, 2018, 11, 1185.	3.1	20
57	Exergy analysis of alternative configurations of a system coproducing synthetic fuels and electricity via biomass gasification, Fischer-Tropsch synthesis and a combined-cycle scheme. Fuel, 2017, 194, 375-394.	6.4	40
58	Prospective analysis of energy security: A practical life-cycle approach focused on renewable power generation and oriented towards policy-makers. Applied Energy, 2017, 190, 891-901.	10.1	60
59	A review of life-cycle approaches coupled with data envelopment analysis within multi-criteria decision analysis for sustainability assessment of energy systems. Journal of Cleaner Production, 2017, 150, 164-174.	9.3	159
60	Harmonised life-cycle global warming impact of renewable hydrogen. Journal of Cleaner Production, 2017, 149, 762-772.	9.3	85
61	Dynamic Ecocentric Assessment Combining Emergy and Data Envelopment Analysis: Application to Wind Farms. Resources, 2016, 5, 8.	3.5	13
62	Prospective Analysis of Life-Cycle Indicators through Endogenous Integration into a National Power Generation Model. Resources, 2016, 5, 39.	3.5	36
63	Life-cycle performance of hydrogen production via indirect biomass gasification with CO2 capture. International Journal of Hydrogen Energy, 2016, 41, 19484-19491.	7.1	88
64	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. Bioresource Technology, 2016, 214, 376-385.	9.6	45
65	Assessing the social acceptance of hydrogen for transportation in Spain: An unintentional focus on target population for a potential hydrogen economy. International Journal of Hydrogen Energy, 2016, 41, 5203-5208.	7.1	48
66	Integration of life-cycle indicators into energy optimisation models: the case study of power generation in Norway. Journal of Cleaner Production, 2016, 112, 2693-2696.	9.3	55
67	Screening of socio-economic indicators for sustainability assessment: a combined life cycle assessment and data envelopment analysis approach. International Journal of Life Cycle Assessment, 2016, 21, 202-214.	4.7	38
68	Life cycle assessment of pyrolysis oil applications. Biomass Conversion and Biorefinery, 2015, 5, 1.	4.6	7
69	Methodology for Carbon Footprint Calculation in Crop and Livestock Production. , 2015, , 80-103.		0
70	Lifeâ€cycle performance of natural gas power plants with preâ€combustion CO₂ capture. , 2015, 5, 268-276.		14
71	Assessing the Life-Cycle Performance of Hydrogen Production via Biofuel Reforming in Europe. Resources, 2015, 4, 398-411.	3.5	45
72	Review of Life-Cycle Approaches Coupled with Data Envelopment Analysis: Launching the CFP + DEA Method for Energy Policy Making. Scientific World Journal, The, 2015, 2015, 1-10.	2.1	47

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73	Biomass Pyrolysis for Biochar or Energy Applications? A Life Cycle Assessment. Environmental Science & Technology, 2015, 49, 5195-5202.	10.0	177
74	Life-cycle performance of hydrogen as an energy management solution in hydropower plants: A case study in Central Italy. International Journal of Hydrogen Energy, 2015, 40, 16660-16672.	7.1	26
75	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. Journal of Cleaner Production, 2015, 87, 707-716.	9.3	57
76	On the environmental suitability of high- and low-enthalpy geothermal systems. Geothermics, 2015, 53, 27-37.	3.4	65
77	Simulation and life cycle assessment of biofuel production via fast pyrolysis and hydroupgrading. Fuel, 2015, 139, 441-456.	6.4	114
78	On the feasibility of using emergy analysis as a source of benchmarking criteria through data envelopment analysis: A case study for wind energy. Energy, 2014, 67, 527-537.	8.8	78
79	Environmental and exergetic evaluation of hydrogen production via lignocellulosic biomass gasification. Journal of Cleaner Production, 2014, 69, 165-175.	9.3	137
80	Carbon Footprint as a Single Indicator in Energy Systems: The Case of BiofuelsÂand CO2 Capture Technologies. Ecoproduction, 2014, , 81-104.	0.8	0
81	Environmental benchmarking of wind farms according to their operational performance. Energy, 2013, 61, 589-597.	8.8	57
82	Life-cycle assessment of Fischerâ€“Tropsch products from biosyngas. Renewable Energy, 2013, 59, 229-236.	8.9	36
83	Life-cycle performance of indirect biomass gasification as a green alternative to steam methane reforming for hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 9961-9972.	7.1	117
84	Environmental and thermodynamic evaluation of CO2 capture, transport and storage with and without enhanced resource recovery. Energy, 2013, 50, 477-485.	8.8	54
85	Is Labor a Suitable Input in LCA + DEA Studies? Insights on the Combined Use of Economic, Environmental and Social Parameters. Social Sciences, 2013, 2, 114-130.	1.4	21
86	On the feasibility of producing hydrogen with net carbon fixation by the decomposition of vegetable and microalgal oils. Energy and Environmental Science, 2012, 5, 6126.	30.8	26
87	Preliminary assessment of plastic waste valorization via sequential pyrolysis and catalytic reforming. Journal of Material Cycles and Waste Management, 2012, 14, 301-307.	3.0	22
88	Potential environmental effects of probiotics used in aquaculture. Aquaculture International, 2012, 20, 779-789.	2.2	32
89	Life cycle assessment of transportation fuels from biomass pyrolysis. Fuel, 2012, 97, 812-821.	6.4	172
90	Life cycle assessment of two alternative bioenergy systems involving Salix spp. biomass: Bioethanol production and power generation. Applied Energy, 2012, 95, 111-122.	10.1	101

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91	Life cycle assessment of biodiesel production from free fatty acid-rich wastes. Renewable Energy, 2012, 38, 155-162.	8.9	106
92	Joint life cycle assessment and data envelopment analysis of grape production for vinification in the RÃas Baixas appellation (NW Spain). Journal of Cleaner Production, 2012, 27, 92-102.	9.3	172
93	Computation of Operational and Environmental Benchmarks Within Selected Galician Fishing Fleets. Journal of Industrial Ecology, 2011, 15, 776-795.	5.5	47
94	Updating the carbon footprint of the Galician fishing activity (NW Spain). Science of the Total Environment, 2011, 409, 1609-1611.	8.0	32
95	Benchmarking environmental and operational parameters through eco-efficiency criteria for dairy farms. Science of the Total Environment, 2011, 409, 1786-1798.	8.0	154
96	Further potentials in the joint implementation of life cycle assessment and data envelopment analysis. Science of the Total Environment, 2010, 408, 5265-5272.	8.0	103
97	Estimation of the carbon footprint of the Galician fishing activity (NW Spain). Science of the Total Environment, 2010, 408, 5284-5294.	8.0	71
98	Implementing by-product management into the Life Cycle Assessment of the mussel sector. Resources, Conservation and Recycling, 2010, 54, 1219-1230.	10.8	51
99	Environmental impact efficiency in mussel cultivation. Resources, Conservation and Recycling, 2010, 54, 1269-1277.	10.8	77
100	Life Cycle Assessment of fresh and canned mussel processing and consumption in Galicia (NW Spain). Resources, Conservation and Recycling, 2010, 55, 106-117.	10.8	66
101	Revisiting the Life Cycle Assessment of mussels from a sectorial perspective. Journal of Cleaner Production, 2010, 18, 101-111.	9.3	70
102	Carbon footprint of canned mussels from a business-to-consumer approach. A starting point for mussel processors and policy makers. Environmental Science and Policy, 2010, 13, 509-521.	4.9	72
103	The link between operational efficiency and environmental impacts. Science of the Total Environment, 2009, 407, 1744-1754.	8.0	143
104	Enhancing the Economic Dimension of LCA + DEA Studies for Sustainability Assessment. , 0, , .		1