Miguel BrandÃ£o

List of Publications by Year
in descending order

66 papers	3,591 citations	136740 32 h-index	161609 54 g-index
74 all docs	74 docs citations	74 times ranked	3805 citing authors

#	Article	IF	Citations
1	UNEP-SETAC guideline on global land use impact assessment on biodiversity and ecosystem services in LCA. International Journal of Life Cycle Assessment, 2013, 18, 1188-1202.	2.2	275
2	Key issues and options in accounting for carbon sequestration and temporary storage in life cycle assessment and carbon footprinting. International Journal of Life Cycle Assessment, 2013, 18, 230-240.	2.2	257
3	Environmental footprint family to address local to planetary sustainability and deliver on the SDGs. Science of the Total Environment, 2019, 693, 133642.	3.9	245
4	A Review of the Environmental Impacts of Biobased Materials. Journal of Industrial Ecology, 2012, 16, S169.	2.8	233
5	Soil organic carbon changes in the cultivation of energy crops: Implications for GHG balances and soil quality for use in LCA. Biomass and Bioenergy, 2011, 35, 2323-2336.	2.9	186
6	Monetary valuation in Life Cycle Assessment: a review. Journal of Cleaner Production, 2015, 86, 170-179.	4.6	182
7	Assessing resource depletion in LCA: a review of methods and methodological issues. International Journal of Life Cycle Assessment, 2014, 19, 580-592.	2.2	164
8	A framework for modelling indirect land use changes in Life Cycle Assessment. Journal of Cleaner Production, 2015, 99, 230-238.	4.6	140
9	Climatic impact of land use in LCAâ€"carbon transfers between vegetation/soil and air. International Journal of Life Cycle Assessment, 2010, 15, 172-182.	2.2	127
10	Global characterisation factors to assess land use impacts on biotic production. International Journal of Life Cycle Assessment, 2013, 18, 1243-1252.	2.2	116
11	Principles for life cycle inventories of land use on a global scale. International Journal of Life Cycle Assessment, 2013, 18, 1203-1215.	2.2	111
12	Rationales for and limitations of preferred solutions for multi-functionality problems in LCA: is increased consistency possible?. International Journal of Life Cycle Assessment, 2015, 20, 74-86.	2.2	108
13	Soil Processes and Functions in Critical Zone Observatories: Hypotheses and Experimental Design. Vadose Zone Journal, 2011, 10, 974-987.	1.3	81
14	Biochar use for climate-change mitigation in rice cropping systems. Journal of Cleaner Production, 2016, 116, 61-70.	4.6	73
15	Hybrid life cycle assessment (LCA) does not necessarily yield more accurate results than process-based LCA. Journal of Cleaner Production, 2017, 150, 237-242.	4.6	72
16	Valuing temporary carbon storage. Nature Climate Change, 2012, 2, 6-8.	8.1	70
17	Assessing temporary carbon sequestration and storage projects through land use, land-use change and forestry: comparison of dynamic life cycle assessment with ton-year approaches. Climatic Change, 2012, 115, 759-776.	1.7	68
18	Attributional & Consequential Life Cycle Assessment: Definitions, Conceptual Characteristics and Modelling Restrictions. Sustainability, 2021, 13, 7386.	1.6	59

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19	The Use of Life Cycle Assessment in the Support of Robust (Climate) Policy Making: Comment on â€œUsing Attributional Life Cycle Assessment to Estimate Climateâ€Change Mitigation â€¦â€. Journal of Industrial Ecology, 2014, 18, 461-463.	2.8	57
20	Quantifying the climate effects of bioenergy â€“ Choice of reference system. Renewable and Sustainable Energy Reviews, 2018, 81, 2271-2280.	8.2	54
21	Attributional life cycle assessment: is a land-use baseline necessary?. International Journal of Life Cycle Assessment, 2015, 20, 1364-1375.	2.2	53
22	Status and prospects for renewable energy using wood pellets from the southeastern United States. GCB Bioenergy, 2017, 9, 1296-1305.	2.5	52
23	Applying a scienceâ€based systems perspective to dispel misconceptions about climate effects of forest bioenergy. GCB Bioenergy, 2021, 13, 1210-1231.	2.5	49
24	Climate-change and health effects of using rice husk for biochar-compost: Comparing three pyrolysis systems. Journal of Cleaner Production, 2017, 162, 260-272.	4.6	47
25	Estimating 20â€year landâ€use change and derived <scp>CO</scp>₂ emissions associated with crops, pasture and forestry in Brazil and each of its 27 states. Global Change Biology, 2017, 23, 3716-3728.	4.2	46
26	Quantifying the climate change effects of bioenergy systems: Comparison of 15 impact assessment methods. GCB Bioenergy, 2019, 11, 727-743.	2.5	43
27	What Can Metaâ€Analyses Tell Us About the Reliability of Life Cycle Assessment for Decision Support?. Journal of Industrial Ecology, 2012, 16, S3.	2.8	41
28	A Life-Cycle Approach to Characterising Environmental and Economic Impacts of Multifunctional Land-Use Systems: An Integrated Assessment in the UK. Sustainability, 2010, 2, 3747-3776.	1.6	38
29	Land use for bioenergy: Synergies and trade-offs between sustainable development goals. Renewable and Sustainable Energy Reviews, 2022, 161, 112409.	8.2	38
30	Evaluating the Environmental Consequences of Swedish Food Consumption and Dietary Choices. Sustainability, 2017, 9, 2227.	1.6	36
31	Expert Workshop on Land Use Impacts in Life Cycle Assessment. 12â€“13 June 2006 Guildford, Surrey (UK). International Journal of Life Cycle Assessment, 2006, 11, 363-368.	2.2	35
32	Environmental impacts and limitations of thirdâ€generation biobutanol: Life cycle assessment of n â€butanol produced by genetically engineered cyanobacteria. Journal of Industrial Ecology, 2020, 24, 205-216.	2.8	35
33	Life cycle assessment of recirculating aquaculture systems: A case of Atlantic salmon farming in China. Journal of Industrial Ecology, 2019, 23, 1077-1086.	2.8	34
34	Exergy as a Measure of Resource Use in Life Cycle Assessment and Other Sustainability Assessment Tools. Resources, 2016, 5, 23.	1.6	31
35	Consequential Life Cycle Assessment: What, How, and Why?. , 2017, , 277-284.		27
36	Quantifying the Greenhouse Gas Reduction Benefits of Utilising Straw Biochar and Enriched Biochar. Energy Procedia, 2016, 97, 254-261.	1.8	26

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37	A flexible parametric model for a balanced account of forest carbon fluxes in LCA. International Journal of Life Cycle Assessment, 2017, 22, 172-184.	2.2	24
38	Coupling economic and GHG emission accounting models to evaluate the sustainability of biogas policies. Renewable and Sustainable Energy Reviews, 2019, 106, 133-148.	8.2	22
39	Evaluating the environmental profiles of winter wheat rotation systems under different management strategies. Science of the Total Environment, 2021, 770, 145270.	3.9	22
40	System Expansion and Substitution in LCA: A Lost Opportunity of ISO 14044 Amendment 2. Frontiers in Sustainability, 2021, 2, .	1.3	22
41	Rebuttal to â€˜Indirect land use change (<scp>iLUC</scp>) within life cycle assessment (LCA) â€“ scientific robustness and consistency with international standardsâ€™. GCB Bioenergy, 2015, 7, 565-566.	2.5	19
42	The modelling approach determines the carbon footprint of biofuels: The role of LCA in informing decision makers in government and industry. Cleaner Environmental Systems, 2021, 2, 100027.	2.2	17
43	Interpreting life cycle assessment results for integrated sustainability decision support: can an ecological economic perspective help us to connect the dots?. International Journal of Life Cycle Assessment, 2019, 24, 1580-1586.	2.2	14
44	Land-use change CO2 emissions associated with agricultural products at municipal level in Brazil. Journal of Cleaner Production, 2022, 364, 132549.	4.6	14
45	Integration of life cycle assessment, artificial neural networks, and metaheuristic optimization algorithms for optimization of tomato-based cropping systems in Iran. International Journal of Life Cycle Assessment, 2020, 25, 620-632.	2.2	13
46	Definition of Product System and Solving Multifunctionality in ISO 14040â€“14044: Inconsistencies and Proposed Amendmentsâ€”Toward a More Open and General LCA Framework. Frontiers in Sustainability, 2022, 3, .	1.3	10
47	Quantifying the climate effects of forest-based bioenergy. , 2019, , 399-418.		9
48	On the validity of natural regeneration in determination of land-use baseline. International Journal of Life Cycle Assessment, 2016, 21, 448-450.	2.2	7
49	Prospects for the circular economy and conclusions. , 2020, , .		5
50	Food, Feed, Fuel, Timber or Carbon Sink? Towards Sustainable Land Use. SpringerBriefs in Environmental Science, 2021, , .	0.3	4
51	Book Review of <i>Life Cycle Assessment: Theory and Practice</i>, edited by Michael Z. Hauschild, Ralph K. Rosenbaum, and Stig Irving Olsen; <i>Environmental Life Cycle Assessment</i>, by Olivier Jolliet, Myriam SaadÃ©â€Sbeih, Shanna Shaked, Alexandre Jolliet, and Pierre Crettaz; and <i>Life Cycle Assessment: Quantitative Approaches for Decisions That Matter</i>, by H. Scott Matthews, Chris T. Hendrickson, and Deanna H. Matthews. Journal of Industrial Ecology, 2020, 24, 726-730.	2.8	2
52	Editorial: Developing and Deploying Negative Emission Technologies: System-Level Assessment and Rationalization. Frontiers in Climate, 2021, 3, .	1.3	2
53	Straw wars â€“ a consequential saga: the life cycle climate change consequences of replacing plastic with paper. , 2020, , .		2
54	Do bioenergy, bioeconomy and circular economy systems mitigate climate change? Insights from life cycle assessment. , 2020, , .		2

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55	The circular economy: a strategy to reconcile economic and environmental objectives?. , 2020, , .		2
56	Response: Commentary: System Expansion and Substitution in LCA: A Lost Opportunity of ISO 14044 Amendment 2. Frontiers in Sustainability, 2021, 2, .	1.3	2
57	Policy institutions and forest carbon. Nature Climate Change, 2016, 6, 805-805.	8.1	1
58	Life Cycle Impact Assessment: Research Needs and Challenges from Science to Policy Making. , 0, , .		1
59	Life cycle assessment methodology for agriculture: some considerations for best practices. Burleigh Dodds Series in Agricultural Science, 2019, , 3-48.	0.1	1
60	Integrated sustainability assessment of a circular economy. , 2020, , .		1
61	Modelling material recycling in life cycle assessment: how sensitive are results to the available methods?. , 2020, , .		1
62	Consequential Life Cycle Framework and Methodology for the Integrated Sustainability Impact Assessment of Land-Use Systems. SpringerBriefs in Environmental Science, 2021, , 55-108.	0.3	0
63	Sustainability of Land Use: A Systems Approach. SpringerBriefs in Environmental Science, 2021, , 15-53.	0.3	0
64	Using Life Cycle Assessment to Evaluate the Environmental Performance of Bio-Based Materials. , 2011, , 189-210.		0
65	Consequential Life Cycle Assessment: What, Why and How?. , 2022, , .		0
66	Indirect Effects Negate Global Climate Change Mitigation Potential of Substituting Gasoline With Corn Ethanol as a Transportation Fuel in the USA. Frontiers in Climate, 2022, 4, .	1.3	0