

Morten Birkved

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

2,224
citations

29
h-index

45
g-index

79
ext. papers

2,743
ext. citations

6.5
avg, IF

5.59
L-index

#	Paper	IF	Citations
78	Human Toxicological Impacts in Life Cycle Assessment of Circular Economy of the Built Environment: A Case Study of Denmark. <i>Buildings</i> , 2022 , 12, 130	3.2	0
77	What are the challenges in assessing circular economy for the built environment? A literature review on integrating LCA, LCC and S-LCA in life cycle sustainability assessment, LCSA. <i>Journal of Building Engineering</i> , 2022 , 50, 104203	5.2	2
76	Insights from combining techno-economic and life cycle assessment in a case study of polyphenol extraction from red wine pomace. <i>Resources, Conservation and Recycling</i> , 2021 , 167, 105318	11.9	10
75	Environmental Design Guidelines for Circular Building Components: The Case of the Circular Building Structure. <i>Sustainability</i> , 2021 , 13, 5621	3.6	3
74	The environmental impacts of clothing: Evidence from United States and three European countries. <i>Sustainable Production and Consumption</i> , 2021 , 27, 2153-2164	8.2	8
73	Circular Economy potential within the building stock - Mapping the embodied greenhouse gas emissions of four Danish examples. <i>Journal of Building Engineering</i> , 2021 , 33, 101845	5.2	13
72	How Lack of Knowledge and Tools Hinders the Eco-Design of Buildings? A Systematic Review. <i>Urban Science</i> , 2021 , 5, 20	2.2	2
71	Addressing Nutrient Depletion in Tanzanian Sisal Fiber Production Using Life Cycle Assessment and Circular Economy Principles, with Bioenergy Co-Production. <i>Sustainability</i> , 2021 , 13, 8881	3.6	0
70	The impacts of plastic products on air pollution - A simulation study for advanced life cycle inventories of plastics covering secondary microplastic production. <i>Sustainable Production and Consumption</i> , 2021 , 28, 848-865	8.2	6
69	Testing the no agricultural waste concept in an environmental comparison of biorefinery value chains in various regions. <i>Resources, Conservation and Recycling</i> , 2021 , 174, 105702	11.9	2
68	Towards circular life cycle assessment for the built environment: A comparison of allocation approaches. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 032026	0.3	5
67	Assessing New Biotechnologies by Combining TEA and TM-LCA for an Efficient Use of Biomass Resources. <i>Sustainability</i> , 2020 , 12, 3676	3.6	2
66	Developing a management-oriented simulation model of pesticide emissions for use in the life cycle assessment of paddy rice cultivation. <i>Science of the Total Environment</i> , 2020 , 716, 137034	10.2	3
65	Low- carbon design strategies for new residential buildings Lessons from architectural practice. <i>Architectural Engineering and Design Management</i> , 2020 , 16, 374-390	1.2	3
64	Argumentation Corrected Context Weighting-Life Cycle Assessment: A Practical Method of Including Stakeholder Perspectives in Multi-Criteria Decision Support for LCA. <i>Sustainability</i> , 2020 , 12, 2170	3.6	7
63	Value Sensitive Design and Environmental Impact Potential Assessment for Enhanced Sustainability in Unmanned Aerial Systems 2020 ,		1
62	Delta Life Cycle Assessment of Regenerative Agriculture in a Sheep Farming System. <i>Integrated Environmental Assessment and Management</i> , 2020 , 16, 282-290	2.5	6

61	Assessment of absolute environmental sustainability in the built environment. <i>Building and Environment</i> , 2020 , 171, 106633	6.5	12
60	Defining Temporally Dynamic Life Cycle Assessment: A Review. <i>Integrated Environmental Assessment and Management</i> , 2020 , 16, 314-323	2.5	19
59	Building design and construction strategies for a circular economy. <i>Architectural Engineering and Design Management</i> , 2020 , 1-21	1.2	24
58	Development of a Life Cycle Assessment Allocation Approach for Circular Economy in the Built Environment. <i>Sustainability</i> , 2020 , 12, 9579	3.6	12
57	Potential of Circular Economy in Sustainable Buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 471, 092051	0.4	31
56	Electricity production and consumption data from Danish power grid and governmental office buildings. <i>Data in Brief</i> , 2019 , 23, 103684	1.2	
55	Maximizing Environmental Impact Savings Potential Through Innovative Biorefinery Alternatives: An Application of the TM-LCA Framework for Regional Scale Impact Assessment. <i>Sustainability</i> , 2019 , 11, 3836	3.6	11
54	Evaluating the Environmental Performance of a Product/Service-System Business Model for Merino Wool Next-to-Skin Garments: The Case of Armadillo Merino . <i>Sustainability</i> , 2019 , 11, 5854	3.6	17
53	Assessing buildings' absolute environmental sustainability performance using LCA focusing on climate change impacts. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 352, 012058	0.3	1
52	Environmental performance assessment of the use stage of buildings using dynamic high-resolution energy consumption and data on grid composition. <i>Building and Environment</i> , 2019 , 147, 97-107	6.5	10
51	Life cycle assessment of a Danish office building designed for disassembly. <i>Building Research and Information</i> , 2019 , 47, 666-680	4.3	55
50	Environmental assessment of Smart City Solutions using a coupled urban metabolism life cycle impact assessment approach. <i>International Journal of Life Cycle Assessment</i> , 2019 , 24, 1239-1253	4.6	17
49	Decision support for large-scale remediation strategies by fused urban metabolism and life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , 2019 , 24, 1254-1268	4.6	4
48	Guidelines for evaluating the environmental performance of Product/Service-Systems through life cycle assessment. <i>Journal of Cleaner Production</i> , 2018 , 190, 666-678	10.3	64
47	Environmental screening of potential biomass for green biorefinery conversion. <i>Journal of Cleaner Production</i> , 2018 , 189, 344-357	10.3	29
46	Techno-environmental assessment of the green biorefinery concept: Combining process simulation and life cycle assessment at an early design stage. <i>Science of the Total Environment</i> , 2018 , 635, 100-111	10.2	42
45	Economic and Environmental Impact Trade-Offs Related to In-Water Hull Cleanings of Merchant Vessels. <i>Journal of Industrial Ecology</i> , 2018 , 22, 916-929	7.2	7
44	WW LCI v2: A second-generation life cycle inventory model for chemicals discharged to wastewater systems. <i>Science of the Total Environment</i> , 2018 , 622-623, 1649-1657	10.2	3

43	Life Cycle Inventory Analysis 2018 , 117-165		10
42	Life cycle assessment of adipic acid production from lignin. <i>Green Chemistry</i> , 2018 , 20, 3857-3866	10	79
41	A research challenge vision regarding management of agricultural waste in a circular bio-based economy. <i>Critical Reviews in Environmental Science and Technology</i> , 2018 , 48, 614-654	11.1	107
40	Indicators for quantifying environmental building performance: A systematic literature review. <i>Journal of Building Engineering</i> , 2018 , 19, 552-560	5.2	41
39	Can farmers mitigate environmental impacts through combined production of food, fuel and feed? A consequential life cycle assessment of integrated mixed crop-livestock system with a green biorefinery. <i>Science of the Total Environment</i> , 2018 , 619-620, 127-143	10.2	24
38	A Methodology Concept for Territorial Metabolism □ Life Cycle Assessment: Challenges and Opportunities in Scaling from Urban to Territorial Assessment. <i>Procedia CIRP</i> , 2018 , 69, 89-93	1.8	8
37	Data Driven Quantification of the Temporal Scope of Building LCAs. <i>Procedia CIRP</i> , 2018 , 69, 224-229	1.8	10
36	Pursuing necessary reductions in embedded GHG emissions of developed nations: Will efficiency improvements and changes in consumption get us there?. <i>Global Environmental Change</i> , 2018 , 52, 314-324	10.1	22
35	Sustainability and LCA in Engineering Education □ A Course Curriculum. <i>Procedia CIRP</i> , 2018 , 69, 627-632	1.8	9
34	Environmental impact of urban consumption patterns: Drivers and focus points. <i>Resources, Conservation and Recycling</i> , 2018 , 137, 260-269	11.9	16
33	Environmental impacts of barley cultivation under current and future climatic conditions. <i>Journal of Cleaner Production</i> , 2017 , 140, 644-653	10.3	14
32	Surveying the Environmental Footprint of Urban Food Consumption. <i>Journal of Industrial Ecology</i> , 2017 , 21, 151-165	7.2	50
31	Environmental life cycle assessment of producing willow, alfalfa and straw from spring barley as feedstocks for bioenergy or biorefinery systems. <i>Science of the Total Environment</i> , 2017 , 586, 226-240	10.2	41
30	The absolute environmental performance of buildings. <i>Building and Environment</i> , 2017 , 119, 87-98	6.5	41
29	Environmental impacts of producing bioethanol and biobased lactic acid from standalone and integrated biorefineries using a consequential and an attributional life cycle assessment approach. <i>Science of the Total Environment</i> , 2017 , 598, 497-512	10.2	50
28	Contributions of Local Farming to Urban Sustainability in the Northeast United States. <i>Environmental Science & Technology</i> , 2017 , 51, 7340-7349	10.3	29
27	Life cycle based dynamic assessment coupled with multiple criteria decision analysis: A case study of determining an optimal building insulation level. <i>Journal of Cleaner Production</i> , 2017 , 162, 449-457	10.3	29
26	Response to Comment on □ Weighting and Aggregation in Life Cycle Assessment: Do Present Aggregated Single Scores Provide Correct Decision Support? □ <i>Journal of Industrial Ecology</i> , 2017 , 21, 1603-1605	7.2	1

25	Weighting and Aggregation in Life Cycle Assessment: Do Present Aggregated Single Scores Provide Correct Decision Support?. <i>Journal of Industrial Ecology</i> , 2017 , 21, 1591-1600	7.2	41
24	Environmental life cycle assessments of producing maize, grass-clover, ryegrass and winter wheat straw for biorefinery. <i>Journal of Cleaner Production</i> , 2017 , 142, 3859-3871	10.3	33
23	Potential to curb the environmental burdens of American beef consumption using a novel plant-based beef substitute. <i>PLoS ONE</i> , 2017 , 12, e0189029	3.7	41
22	Life-cycle based dynamic assessment of mineral wool insulation in a Danish residential building application. <i>Journal of Cleaner Production</i> , 2017 , 142, 3243-3253	10.3	22
21	Can carbon footprint serve as proxy of the environmental burden from urban consumption patterns?. <i>Ecological Indicators</i> , 2017 , 74, 109-118	5.8	23
20	Urban versus conventional agriculture, taxonomy of resource profiles: a review. <i>Agronomy for Sustainable Development</i> , 2016 , 36, 1	6.8	73
19	Ethical aspects of life cycle assessments of diets. <i>Food Policy</i> , 2016 , 59, 139-151	5	46
18	Testing the environmental performance of urban agriculture as a food supply in northern climates. <i>Journal of Cleaner Production</i> , 2016 , 135, 984-994	10.3	65
17	Personal Metabolism (PM) coupled with Life Cycle Assessment (LCA) model: Danish Case Study. <i>Environment International</i> , 2016 , 91, 168-79	12.9	26
16	Closing the loop for aluminum cans: Life Cycle Assessment of progression in Cradle-to-Cradle certification levels. <i>Journal of Cleaner Production</i> , 2016 , 126, 352-362	10.3	37
15	Natural fibre selection for composite eco-design. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 13-16	4.9	15
14	The USEtox story: a survey of model developer visions and user requirements. <i>International Journal of Life Cycle Assessment</i> , 2015 , 20, 299-310	4.6	47
13	From LCC to LCA Using a Hybrid Input Output Model - A Maritime Case Study. <i>Procedia CIRP</i> , 2015 , 29, 474-479	1.8	16
12	Pesticide emission modelling and freshwater ecotoxicity assessment for Grapevine LCA: adaptation of PestLCI 2.0 to viticulture. <i>International Journal of Life Cycle Assessment</i> , 2015 , 20, 1528-1543	4.6	25
11	Biorefining in the prevailing energy and materials crisis: a review of sustainable pathways for biorefinery value chains and sustainability assessment methodologies. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 244-263	16.2	180
10	Choosing co-substrates to supplement biogas production from animal slurry--a life cycle assessment of the environmental consequences. <i>Bioresource Technology</i> , 2014 , 171, 410-20	11	31
9	Beyond safe operating space: finding chemical footprinting feasible. <i>Environmental Science & Technology</i> , 2014 , 48, 6057-9	10.3	31
8	Chemical footprints: thin boundaries support environmental quality management. <i>Environmental Science & Technology</i> , 2014 , 48, 13025-6	10.3	5

7	Chemical footprint method for improved communication of freshwater ecotoxicity impacts in the context of ecological limits. <i>Environmental Science & Technology</i> , 2014 , 48, 13253-62	10.3	46
6	Quantification of urban metabolism through coupling with the life cycle assessment framework: concept development and case study. <i>Environmental Research Letters</i> , 2013 , 8, 035024	6.2	128
5	PestLCI 2.0: a second generation model for estimating emissions of pesticides from arable land in LCA. <i>International Journal of Life Cycle Assessment</i> , 2012 , 17, 973-986	4.6	98
4	Simplified fate modelling in respect to ecotoxicological and human toxicological characterisation of emissions of chemical compounds. <i>International Journal of Life Cycle Assessment</i> , 2011 , 16, 739-747	4.6	12
3	Reproductive performance in East Greenland polar bears (<i>Ursus maritimus</i>) may be affected by organohalogen contaminants as shown by physiologically-based pharmacokinetic (PBPK) modelling. <i>Chemosphere</i> , 2009 , 77, 1558-68	8.4	51
2	PestLCIA model for estimating field emissions of pesticides in agricultural LCA. <i>Ecological Modelling</i> , 2006 , 198, 433-451	3	116
1	Life Cycle Assessment of Manure Management Systems329-341		2