

Morten Birkved

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

3,348
citations

109321

35
h-index

155660

55
g-index

79
all docs

79
docs citations

79
times ranked

3924
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	16.4	209
2	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.	12.8	189
3	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.	5.2	149
4	PestLCI – A model for estimating field emissions of pesticides in agricultural LCA. <i>Ecological Modelling</i> , 2006, 198, 433-451.	2.5	132
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.	4.7	120
6	Life cycle assessment of adipic acid production from lignin. <i>Green Chemistry</i> , 2018, 20, 3857-3866.	9.0	116
7	Testing the environmental performance of urban agriculture as a food supply in northern climates. <i>Journal of Cleaner Production</i> , 2016, 135, 984-994.	9.3	108
8	Guidelines for evaluating the environmental performance of Product/Service-Systems through life cycle assessment. <i>Journal of Cleaner Production</i> , 2018, 190, 666-678.	9.3	108
9	Urban versus conventional agriculture, taxonomy of resource profiles: a review. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	5.3	107
10	Life cycle assessment of a Danish office building designed for disassembly. <i>Building Research and Information</i> , 2019, 47, 666-680.	3.9	100
11	Surveying the Environmental Footprint of Urban Food Consumption. <i>Journal of Industrial Ecology</i> , 2017, 21, 151-165.	5.5	69
12	Potential to curb the environmental burdens of American beef consumption using a novel plant-based beef substitute. <i>PLoS ONE</i> , 2017, 12, e0189029.	2.5	68
13	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.	8.0	63
14	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, 1558-1568.	8.2	62
15	The absolute environmental performance of buildings. <i>Building and Environment</i> , 2017, 119, 87-98.	6.9	61
16	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.	5.5	60
17	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.	8.0	59
18	Potential of Circular Economy in Sustainable Buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 471, 092051.	0.6	59

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19	Building design and construction strategies for a circular economy. <i>Architectural Engineering and Design Management</i> , 2022, 18, 93-113.	1.7	59
20	Ethical aspects of life cycle assessments of diets. <i>Food Policy</i> , 2016, 59, 139-151.	6.0	57
21	Chemical Footprint Method for Improved Communication of Freshwater Ecotoxicity Impacts in the Context of Ecological Limits. <i>Environmental Science & Technology</i> , 2014, 48, 13253-13262.	10.0	55
22	The USEtox story: a survey of model developer visions and user requirements. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 299-310.	4.7	55
23	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.	8.0	52
24	Indicators for quantifying environmental building performance: A systematic literature review. <i>Journal of Building Engineering</i> , 2018, 19, 552-560.	3.4	50
25	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.	9.3	49
26	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.	9.3	46
27	Environmental screening of potential biomass for green biorefinery conversion. <i>Journal of Cleaner Production</i> , 2018, 189, 344-357.	9.3	45
28	Development of a Life Cycle Assessment Allocation Approach for Circular Economy in the Built Environment. <i>Sustainability</i> , 2020, 12, 9579.	3.2	44
29	Contributions of Local Farming to Urban Sustainability in the Northeast United States. <i>Environmental Science & Technology</i> , 2017, 51, 7340-7349.	10.0	43
30	Choosing co-substrates to supplement biogas production from animal slurry – A life cycle assessment of the environmental consequences. <i>Bioresource Technology</i> , 2014, 171, 410-420.	9.6	42
31	Defining Temporally Dynamic Life Cycle Assessment: A Review. <i>Integrated Environmental Assessment and Management</i> , 2020, 16, 314-323.	2.9	41
32	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.	3.4	40
33	Can carbon footprint serve as proxy of the environmental burden from urban consumption patterns?. <i>Ecological Indicators</i> , 2017, 74, 109-118.	6.3	39
34	Beyond Safe Operating Space: Finding Chemical Footprinting Feasible. <i>Environmental Science & Technology</i> , 2014, 48, 6057-6059.	10.0	38
35	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.	8.0	38
36	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.	3.2	38

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37	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.	7.8	36
38	Assessment of absolute environmental sustainability in the built environment. <i>Building and Environment</i> , 2020, 171, 106633.	6.9	36
39	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.	4.7	35
40	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.	4.7	34
41	Personal Metabolism (PM) coupled with Life Cycle Assessment (LCA) model: Danish Case Study. <i>Environment International</i> , 2016, 91, 168-179.	10.0	33
42	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.	9.3	33
43	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.	9.3	30
44	The environmental impacts of clothing: Evidence from United States and three European countries. <i>Sustainable Production and Consumption</i> , 2021, 27, 2153-2164.	11.0	30
45	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.	11.0	28
46	Insights from combining techno-economic and life cycle assessment – a case study of polyphenol extraction from red wine pomace. <i>Resources, Conservation and Recycling</i> , 2021, 167, 105318.	10.8	24
47	Natural fibre selection for composite eco-design. <i>CIRP Annals - Manufacturing Technology</i> , 2016, 65, 13-16.	3.6	21
48	Environmental impacts of barley cultivation under current and future climatic conditions. <i>Journal of Cleaner Production</i> , 2017, 140, 644-653.	9.3	21
49	From LCC to LCA Using a Hybrid Input Output Model – A Maritime Case Study. <i>Procedia CIRP</i> , 2015, 29, 474-479.	1.9	20
50	Environmental impact of urban consumption patterns: Drivers and focus points. <i>Resources, Conservation and Recycling</i> , 2018, 137, 260-269.	10.8	20
51	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.	3.4	20
52	Delta Life Cycle Assessment of Regenerative Agriculture in a Sheep Farming System. <i>Integrated Environmental Assessment and Management</i> , 2020, 16, 282-290.	2.9	19
53	Environmental Design Guidelines for Circular Building Components: The Case of the Circular Building Structure. <i>Sustainability</i> , 2021, 13, 5621.	3.2	19
54	Life Cycle Inventory Analysis. , 2018, , 117-165.		17

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55	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.	4.7	15
56	Data Driven Quantification of the Temporal Scope of Building LCAs. <i>Procedia CIRP</i> , 2018, 69, 224-229.	1.9	15
57	Sustainability and LCA in Engineering Education – A Course Curriculum. <i>Procedia CIRP</i> , 2018, 69, 627-632.	1.9	15
58	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.	3.2	15
59	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.	6.9	15
60	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.	5.5	12
61	How Lack of Knowledge and Tools Hinders the Eco-Design of Buildings – A Systematic Review. <i>Urban Science</i> , 2021, 5, 20.	2.3	12
62	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.	1.9	11
63	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.	8.0	9
64	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	9
65	Assessing New Biotechnologies by Combining TEA and TM-LCA for an Efficient Use of Biomass Resources. <i>Sustainability</i> , 2020, 12, 3676.	3.2	9
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.	8.0	9
67	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.	3.2	8
68	Chemical Footprints: Thin Boundaries Support Environmental Quality Management. <i>Environmental Science & Technology</i> , 2014, 48, 13025-13026.	10.0	7
69	Low- carbon design strategies for new residential buildings – lessons from architectural practice. <i>Architectural Engineering and Design Management</i> , 2020, 16, 374-390.	1.7	7
70	Testing the no agricultural waste concept – an environmental comparison of biorefinery value chains in various regions. <i>Resources, Conservation and Recycling</i> , 2021, 174, 105702.	10.8	6
71	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.	3.1	6
72	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	5

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73	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.	4.7	5
74	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.	3.2	4
75	Value Sensitive Design and Environmental Impact Potential Assessment for Enhanced Sustainability in Unmanned Aerial Systems. , 2020, , .		3
76	Response to <i>Comment on “Weighting and Aggregation in Life Cycle Assessment: Do Present Aggregated Single Scores Provide Correct Decision Support”</i>. <i>Journal of Industrial Ecology</i> , 2017, 21, 1603-1605.	5.5	1
77	Electricity production and consumption data from Danish power grid and governmental office buildings. <i>Data in Brief</i> , 2019, 23, 103684.	1.0	0