

# Helge Bratteb

## 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.

80  
papers

2,214  
citations

27  
h-index

44  
g-index

86  
ext. papers

2,613  
ext. citations

5.6  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
80	Towards a LCA Database for the Planning and Design of Zero-Emissions Neighborhoods. <i>Buildings</i> , <b>2022</b> , 12, 512	3.2	1
79	Hybrid life cycle assessment at the neighbourhood scale: The case of Ydalir, Norway. <i>Cleaner Engineering and Technology</i> , <b>2022</b> , 8, 100503	2.7	1
78	Large potentials for energy saving and greenhouse gas emission reductions from large-scale deployment of zero emission building technologies in a national building stock. <i>Energy Policy</i> , <b>2021</b> , 152, 112114	7.2	11
77	Top-down spatially-explicit probabilistic estimation of building energy performance at a scale. <i>Energy and Buildings</i> , <b>2021</b> , 238, 110786	7	5
76	Life cycle assessment as decision-support in choice of road corridor: case study and stakeholder perspectives. <i>International Journal of Sustainable Transportation</i> , <b>2021</b> , 15, 678-695	3.6	2
75	Temporal analysis of the material flows and embodied greenhouse gas emissions of a neighborhood building stock. <i>Journal of Industrial Ecology</i> , <b>2021</b> , 25, 419-434	7.2	14
74	Estimating dynamic climate change effects of material use in buildings: timing, uncertainty, and emission sources. <i>Building and Environment</i> , <b>2021</b> , 187, 107399	6.5	16
73	A systematic approach for data analysis and prediction methods for annual energy profiles: An example for school buildings in Norway. <i>Energy and Buildings</i> , <b>2021</b> , 247, 111160	7	1
72	Multi-criteria decision analysis (MCDA) method for assessing the sustainability of end-of-life alternatives for waste plastics: A case study of Norway. <i>Science of the Total Environment</i> , <b>2020</b> , 719, 137353	10.2	30
71	Embodied emission profiles of building types: guidance for emission reduction in the early phases of construction projects. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 410, 012069	0.3	1
70	Waste prevention, energy recovery or recycling - Directions for household food waste management in light of circular economy policy. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 160, 104908	11.9	25
69	Using Material Flow Analysis (MFA) to generate the evidence on plastic waste management from commercial fishing gears in Norway. <i>Resources Conservation &amp; Recycling X</i> , <b>2020</b> , 5, 100024	3.9	13
68	A life-cycle assessment model for zero emission neighborhoods. <i>Journal of Industrial Ecology</i> , <b>2020</b> , 24, 500-516	7.2	14
67	Optimizing Road Gradients Regarding Earthwork Cost, Fuel Cost, and Tank-to-Wheel Emissions. <i>Journal of Transportation Engineering Part A: Systems</i> , <b>2020</b> , 146, 04019079	1.5	4
66	Life cycle assessment of winter road maintenance. <i>International Journal of Life Cycle Assessment</i> , <b>2020</b> , 25, 646-661	4.6	3
65	An analytical method for evaluating and visualizing embodied carbon emissions of buildings. <i>Building and Environment</i> , <b>2020</b> , 168, 106476	6.5	20
64	Exploring the pathway from zero-energy to zero-emission building solutions: A case study of a Norwegian office building. <i>Energy and Buildings</i> , <b>2019</b> , 188-189, 84-97	7	35

63	A method to extract fishers' knowledge (FK) to generate evidence for sustainable management of fishing gears. <i>MethodsX</i> , <b>2019</b> , 6, 1044-1053	1.9	5
62	Future energy pathways for a university campus considering possibilities for energy efficiency improvements. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 352, 012037	0.3	3
61	Influence of emerging technologies deployment in residential built stock on electric energy cost and grid load. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 352, 012038	0.3	
60	LCA modelling for Zero Emission Neighbourhoods in early stage planning. <i>Building and Environment</i> , <b>2019</b> , 149, 379-389	6.5	34
59	A review of environmental impacts of winter road maintenance. <i>Cold Regions Science and Technology</i> , <b>2019</b> , 158, 143-153	3.8	22
58	Is a net life cycle balance for energy and materials achievable for a zero emission single-family building in Norway?. <i>Energy and Buildings</i> , <b>2018</b> , 168, 457-469	7	19
57	Choice of mineral fertilizer substitution principle strongly influences LCA environmental benefits of nutrient cycling in the agri-food system. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 219-227	10.2	32
56	Performing quantitative analyses towards sustainable business models in building energy renovation projects: Analytic process and case study. <i>Journal of Cleaner Production</i> , <b>2018</b> , 199, 1092-1106	10.3	16
55	Comparative emission analysis of low-energy and zero-emission buildings. <i>Building Research and Information</i> , <b>2018</b> , 46, 367-382	4.3	22
54	Metabolism-modelling approaches to long-term sustainability assessment of urban water services. <i>Urban Water Journal</i> , <b>2017</b> , 14, 11-22	2.3	27
53	Using a segmented dynamic dwelling stock model for scenario analysis of future energy demand: The dwelling stock of Norway 2016-2050. <i>Energy and Buildings</i> , <b>2017</b> , 146, 220-232	7	33
52	Recycling potential of secondary phosphorus resources as assessed by integrating substance flow analysis and plant-availability. <i>Science of the Total Environment</i> , <b>2017</b> , 575, 1546-1555	10.2	20
51	Redistributing Phosphorus in Animal Manure from a Livestock-Intensive Region to an Arable Region: Exploration of Environmental Consequences. <i>Sustainability</i> , <b>2017</b> , 9, 595	3.6	16
50	Combining Life Cycle Environmental and Economic Assessments in Building Energy Renovation Projects. <i>Energies</i> , <b>2017</b> , 10, 1851	3.1	15
49	Sustainable Business Models for Deep Energy Retrofitting of Buildings: State-of-the-art and Methodological Approach. <i>Energy Procedia</i> , <b>2016</b> , 96, 435-445	2.3	16
48	Investigating Cross-Sectoral Synergies through Integrated Aquaculture, Fisheries, and Agriculture Phosphorus Assessments: A Case Study of Norway. <i>Journal of Industrial Ecology</i> , <b>2016</b> , 20, 867-881	7.2	26
47	A multi-regional soil phosphorus balance for exploring secondary fertilizer potential: the case of Norway. <i>Nutrient Cycling in Agroecosystems</i> , <b>2016</b> , 104, 307-320	3.3	26
46	Dynamic building stock modelling: General algorithm and exemplification for Norway. <i>Energy and Buildings</i> , <b>2016</b> , 132, 13-25	7	44

45	Explaining the historical energy use in dwelling stocks with a segmented dynamic model: Case study of Norway 1960-2015. <i>Energy and Buildings</i> , <b>2016</b> , 132, 141-153	7	22
44	Dynamic building stock modelling: Application to 11 European countries to support the energy efficiency and retrofit ambitions of the EU. <i>Energy and Buildings</i> , <b>2016</b> , 132, 26-38	7	93
43	Assessment of Food Waste Prevention and Recycling Strategies Using a Multilayer Systems Approach. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 13937-45	10.3	27
42	Dynamic material flow analysis for PCBs in the Norwegian building stock. <i>Building Research and Information</i> , <b>2014</b> , 42, 359-370	4.3	5
41	Understanding the water-energy-carbon nexus in urban water utilities: Comparison of four city case studies and the relevant influencing factors. <i>Energy</i> , <b>2014</b> , 75, 153-166	7.9	91
40	Sensitivity analysis in long-term dynamic building stock modeling—Exploring the importance of uncertainty of input parameters in Norwegian segmented dwelling stock model. <i>Energy and Buildings</i> , <b>2014</b> , 85, 136-144	7	26
39	Using a dynamic segmented model to examine future renovation activities in the Norwegian dwelling stock. <i>Energy and Buildings</i> , <b>2014</b> , 82, 287-295	7	41
38	Life cycle assessment of the water and wastewater system in Trondheim, Norway – A case study. <i>Urban Water Journal</i> , <b>2014</b> , 11, 323-334	2.3	49
37	Dynamic metabolism modelling of urban water services—demonstrating effectiveness as a decision-support tool for Oslo, Norway. <i>Water Research</i> , <b>2014</b> , 61, 19-33	12.5	27
36	Exploring urban mines: pipe length and material stocks in urban water and wastewater networks. <i>Urban Water Journal</i> , <b>2014</b> , 11, 274-283	2.3	22
35	CONSIDERATION OF LIFE CYCLE ENERGY USE AND GREENHOUSE GAS EMISSIONS IN ROAD INFRASTRUCTURE PLANNING PROCESSES: EXAMPLES OF SWEDEN, NORWAY, DENMARK AND THE NETHERLANDS. <i>Journal of Environmental Assessment Policy and Management</i> , <b>2014</b> , 16, 1450038	1.3	6
34	Studying the demand-side vis-à-vis the supply-side of urban water systems—case study of Oslo, Norway. <i>Environmental Technology (United Kingdom)</i> , <b>2014</b> , 35, 2322-33	2.6	3
33	Dynamic-MFA examination of Chilean housing stock: long-term changes and earthquake damage. <i>Building Research and Information</i> , <b>2014</b> , 42, 343-358	4.3	12
32	Environmental Life Cycle Assessment of Bridges. <i>Journal of Bridge Engineering</i> , <b>2013</b> , 18, 153-161	2.7	52
31	Carbon emissions of infrastructure development. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11739-46	10.3	238
30	Typifying cities to streamline the selection of relevant environmental sustainability indicators for urban water supply and sewage handling systems: a recommendation. <i>Environment, Development and Sustainability</i> , <b>2013</b> , 15, 765-782	4.5	6
29	Influence of assumptions about household waste composition in waste management LCAs. <i>Waste Management</i> , <b>2013</b> , 33, 212-9	8.6	24
28	Use of LCA to evaluate solutions for water and waste infrastructure in the early planning phase of carbon-neutral urban settlements. <i>Smart and Sustainable Built Environment</i> , <b>2013</b> , 2, 28-42	3	1

27	Assessment of Environmental Impacts of an Aging and Stagnating Water Supply Pipeline Network. <i>Journal of Industrial Ecology</i> , <b>2012</b> , 16, 722-734	7.2	16
26	Comparing CO2 and NOX emissions from a district heating system with mass-burn waste incineration versus likely alternative solutions [City of Trondheim, 1986-2009]. <i>Resources, Conservation and Recycling</i> , <b>2012</b> , 60, 147-158	11.9	9
25	LCA for household waste management when planning a new urban settlement. <i>Waste Management</i> , <b>2012</b> , 32, 1482-90	8.6	29
24	Analysis of energy and carbon flows in the future Norwegian dwelling stock. <i>Building Research and Information</i> , <b>2012</b> , 40, 123-139	4.3	31
23	Environmental analysis of chemicals and energy consumption in water treatment plants: case study of Oslo, Norway. <i>Water Science and Technology: Water Supply</i> , <b>2012</b> , 12, 200-211	1.4	8
22	Historical energy analysis of the Norwegian dwelling stock. <i>Building Research and Information</i> , <b>2011</b> , 39, 1-15	4.3	26
21	Energy consumption, costs and environmental impacts for urban water cycle services: Case study of Oslo (Norway). <i>Energy</i> , <b>2011</b> , 36, 792-800	7.9	120
20	Analysis of chemicals and energy consumption in water and wastewater treatment, as cost components: Case study of Oslo, Norway. <i>Urban Water Journal</i> , <b>2011</b> , 8, 189-202	2.3	15
19	Methodology for determining life-cycle environmental impacts due to material and energy flows in wastewater pipeline networks: A case study of Oslo (Norway). <i>Urban Water Journal</i> , <b>2011</b> , 8, 119-134	2.3	9
18	Environmental impact analysis of chemicals and energy consumption in wastewater treatment plants: case study of Oslo, Norway. <i>Water Science and Technology</i> , <b>2011</b> , 63, 1018-31	2.2	28
17	Historical analysis of blockages in wastewater pipelines in Oslo and diagnosis of causative pipeline characteristics. <i>Urban Water Journal</i> , <b>2010</b> , 7, 335-343	2.3	11
16	Asset Management for Urban Wastewater Pipeline Networks. <i>Journal of Infrastructure Systems</i> , <b>2010</b> , 16, 112-121	2.9	30
15	Exploring built environment stock metabolism and sustainability by systems analysis approaches. <i>Building Research and Information</i> , <b>2009</b> , 37, 569-582	4.3	36
14	Combined MFA-LCA for Analysis of Wastewater Pipeline Networks. <i>Journal of Industrial Ecology</i> , <b>2009</b> , 13, 532-550	7.2	56
13	Dynamic Eco-Efficiency Projections for Construction and Demolition Waste Recycling Strategies at the City Level. <i>Journal of Industrial Ecology</i> , <b>2008</b> , 12, 52-68	7.2	33
12	Towards modelling of construction, renovation and demolition activities: Norway's dwelling stock, 1900-2010. <i>Building Research and Information</i> , <b>2008</b> , 36, 412-425	4.3	63
11	Importance of investment decisions and rehabilitation approaches in an ageing wastewater pipeline network. A case study of Oslo (Norway). <i>Water Science and Technology</i> , <b>2008</b> , 58, 2279-93	2.2	9
10	Sustainable management of combustible household waste-Expanding the integrated evaluation model. <i>Resources, Conservation and Recycling</i> , <b>2008</b> , 52, 1101-1111	11.9	10

9	Projection of Construction and Demolition Waste in Norway. <i>Journal of Industrial Ecology</i> , <b>2008</b> , 11, 27-39.2	119
8	Dynamic material flow analysis for Norway's dwelling stock. <i>Building Research and Information</i> , <b>2007</b> , 35, 557-570	4.3 110
7	Systems analysis as support for decision making towards sustainable municipal waste management--a case study. <i>Waste Management and Research</i> , <b>2006</b> , 24, 323-31	4 7
6	Toward a Methods Framework for Eco-efficiency Analysis?. <i>Journal of Industrial Ecology</i> , <b>2005</b> , 9, 9-11	7.2 29
5	Sustainable management of demolition waste--An integrated model for the evaluation of environmental, economic and social aspects. <i>Resources, Conservation and Recycling</i> , <b>2003</b> , 38, 317-334	11.9 77
4	Industrial Ecology and Education. <i>Journal of Industrial Ecology</i> , <b>2001</b> , 5, 1-2	7.2 5
3	Teaching Industrial Ecology to Graduate Students: Experiences at the Norwegian University of Science and Technology. <i>Journal of Industrial Ecology</i> , <b>1999</b> , 3, 117-130	7.2 8
2	Environmental co-benefits and trade-offs of climate mitigation strategies applied to net-zero-emission neighbourhoods. <i>International Journal of Life Cycle Assessment</i> , 1	4.6 2
1	The effect of building attributes on the energy performance at a scale: an inferential analysis. <i>Building Research and Information</i> , 1-19	4.3 0