Helge BrattebÃ¸

List of Publications by Year
in descending order

85 papers	3,069 citations	136940 32 h-index	175241 52 g-index
86 all docs	86 docs citations	86 times ranked	2891 citing authors

#	Article	IF	Citations
1	Carbon Emissions of Infrastructure Development. Environmental Science & Technology, 2013, 47, 11739-11746.	10.0	314
2	Projection of Construction and Demolition Waste in Norway. Journal of Industrial Ecology, 2008, 11, 27-39.	5.5	145
3	Dynamic material flow analysis for Norway's dwelling stock. Building Research and Information, 2007, 35, 557-570.	3.9	138
4	Energy consumption, costs and environmental impacts for urban water cycle services: Case study of Oslo (Norway). Energy, 2011, 36, 792-800.	8.8	137
5	Dynamic building stock modelling: Application to 11 European countries to support the energy efficiency and retrofit ambitions of the EU. Energy and Buildings, 2016, 132, 26-38.	6.7	128
6	Understanding the water-energy-carbon nexus in urban water utilities: Comparison of four city case studies and the relevant influencing factors. Energy, 2014, 75, 153-166.	8.8	123
7	Sustainable management of demolition wasteâ€"an integrated model for the evaluation of environmental, economic and social aspects. Resources, Conservation and Recycling, 2003, 38, 317-334.	10.8	96
8	Multi-criteria decision analysis (MCDA) method for assessing the sustainability of end-of-life alternatives for waste plastics: A case study of Norway. Science of the Total Environment, 2020, 719, 137353.	8.0	76
9	Towards modelling of construction, renovation and demolition activities: Norway's dwelling stock, 1900â€"2100. Building Research and Information, 2008, 36, 412-425.	3.9	69
10	Environmental Life Cycle Assessment of Bridges. Journal of Bridge Engineering, 2013, 18, 153-161.	2.9	67
11	Combined MFAâ€LCA for Analysis of Wastewater Pipeline Networks. Journal of Industrial Ecology, 2009, 13, 532-550.	5.5	64
12	Dynamic building stock modelling: General algorithm and exemplification for Norway. Energy and Buildings, 2016, 132, 13-25.	6.7	56
13	Waste prevention, energy recovery or recycling - Directions for household food waste management in light of circular economy policy. Resources, Conservation and Recycling, 2020, 160, 104908.	10.8	56
14	Using a dynamic segmented model to examine future renovation activities in the Norwegian dwelling stock. Energy and Buildings, 2014, 82, 287-295.	6.7	55
15	Exploring the pathway from zero-energy to zero-emission building solutions: A case study of a Norwegian office building. Energy and Buildings, 2019, 188-189, 84-97.	6.7	55
16	Life cycle assessment of the water and wastewater system in Trondheim, Norway â€" A case study. Urban Water Journal, 2014, 11, 323-334.	2.1	54
17	Choice of mineral fertilizer substitution principle strongly influences LCA environmental benefits of nutrient cycling in the agri-food system. Science of the Total Environment, 2018, 615, 219-227.	8.0	49
18	LCA modelling for Zero Emission Neighbourhoods in early stage planning. Building and Environment, 2019, 149, 379-389.	6.9	48

#	Article	IF	Citations
19	Large potentials for energy saving and greenhouse gas emission reductions from large-scale deployment of zero emission building technologies in a national building stock. Energy Policy, 2021, 152, 112114.	8.8	47
20	Using a segmented dynamic dwelling stock model for scenario analysis of future energy demand: The dwelling stock of Norway 2016â€“2050. Energy and Buildings, 2017, 146, 220-232.	6.7	42
21	Comparative emission analysis of low-energy and zero-emission buildings. Building Research and Information, 2018, 46, 367-382.	3.9	41
22	Temporal analysis of the material flows and embodied greenhouse gas emissions of a neighborhood building stock. Journal of Industrial Ecology, 2021, 25, 419-434.	5.5	41
23	Exploring built environment stock metabolism and sustainability by systems analysis approaches. Building Research and Information, 2009, 37, 569-582.	3.9	40
24	Dynamic Ecoâ€Efficiency Projections for Construction and Demolition Waste Recycling Strategies at the City Level. Journal of Industrial Ecology, 2008, 12, 52-68.	5.5	39
25	Asset Management for Urban Wastewater Pipeline Networks. Journal of Infrastructure Systems, 2010, 16, 112-121.	1.8	39
26	Analysis of energy and carbon flows in the future Norwegian dwelling stock. Building Research and Information, 2012, 40, 123-139.	3.9	39
27	LCA for household waste management when planning a new urban settlement. Waste Management, 2012, 32, 1482-1490.	7.4	38
28	Estimating dynamic climate change effects of material use in buildingsâ€"Timing, uncertainty, and emission sources. Building and Environment, 2021, 187, 107399.	6.9	37
29	Toward a Methods Framework for Eco-efficiency Analysis?. Journal of Industrial Ecology, 2005, 9, 9-11.	5.5	35
30	Metabolism-modelling approaches to long-term sustainability assessment of urban water services. Urban Water Journal, 2017, 14, 11-22.	2.1	35
31	A review of environmental impacts of winter road maintenance. Cold Regions Science and Technology, 2019, 158, 143-153.	3.5	35
32	An analytical method for evaluating and visualizing embodied carbon emissions of buildings. Building and Environment, 2020, 168, 106476.	6.9	35
33	Influence of assumptions about household waste composition in waste management LCAs. Waste Management, 2013, 33, 212-219.	7.4	33
34	Sensitivity analysis in long-term dynamic building stock modelingâ€"Exploring the importance of uncertainty of input parameters in Norwegian segmented dwelling stock model. Energy and Buildings, 2014, 85, 136-144.	6.7	33
35	Assessment of Food Waste Prevention and Recycling Strategies Using a Multilayer Systems Approach. Environmental Science & Technology, 2015, 49, 13937-13945.	10.0	33
36	Investigating Crossâ€Sectoral Synergies through Integrated Aquaculture, Fisheries, and Agriculture Phosphorus Assessments: A Case Study of Norway. Journal of Industrial Ecology, 2016, 20, 867-881.	5.5	33

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37	Historical energy analysis of the Norwegian dwelling stock. Building Research and Information, 2011, 39, 1-15.	3.9	32
38	Dynamic metabolism modelling of urban water services â€“ Demonstrating effectiveness as a decision-support tool for Oslo, Norway. Water Research, 2014, 61, 19-33.	11.3	31
39	A multi-regional soil phosphorus balance for exploring secondary fertilizer potential: the case of Norway. Nutrient Cycling in Agroecosystems, 2016, 104, 307-320.	2.2	30
40	Environmental impact analysis of chemicals and energy consumption in wastewater treatment plants: case study of Oslo, Norway. Water Science and Technology, 2011, 63, 1018-1031.	2.5	29
41	Exploring urban mines: pipe length and material stocks in urban water and wastewater networks. Urban Water Journal, 2014, 11, 274-283.	2.1	29
42	Explaining the historical energy use in dwelling stocks with a segmented dynamic model: Case study of Norway 1960â€“2015. Energy and Buildings, 2016, 132, 141-153.	6.7	28
43	Is a net life cycle balance for energy and materials achievable for a zero emission single-family building in Norway?. Energy and Buildings, 2018, 168, 457-469.	6.7	28
44	Using Material Flow Analysis (MFA) to generate the evidence on plastic waste management from commercial fishing gears in Norway. Resources Conservation & Recycling X, 2020, 5, 100024.	4.2	28
45	AÂlifeâ€cycle assessment model for zero emission neighborhoods. Journal of Industrial Ecology, 2020, 24, 500-516.	5.5	25
46	Recycling potential of secondary phosphorus resources as assessed by integrating substance flow analysis and plant-availability. Science of the Total Environment, 2017, 575, 1546-1555.	8.0	24
47	Performing quantitative analyses towards sustainable business models in building energy renovation projects: Analytic process and case study. Journal of Cleaner Production, 2018, 199, 1092-1106.	9.3	22
48	Combining Life Cycle Environmental and Economic Assessments in Building Energy Renovation Projects. Energies, 2017, 10, 1851.	3.1	21
49	Sustainable Business Models for Deep Energy Retrofitting of Buildings: State-of-the-art and Methodological Approach. Energy Procedia, 2016, 96, 435-445.	1.8	20
50	Assessment of Environmental Impacts of an Aging and Stagnating Water Supply Pipeline Network. Journal of Industrial Ecology, 2012, 16, 722-734.	5.5	19
51	Historical analysis of blockages in wastewater pipelines in Oslo and diagnosis of causative pipeline characteristics. Urban Water Journal, 2010, 7, 335-343.	2.1	18
52	Analysis of chemicals and energy consumption in water and wastewater treatment, as cost components: Case study of Oslo, Norway. Urban Water Journal, 2011, 8, 189-202.	2.1	18
53	Redistributing Phosphorus in Animal Manure from a Livestock-Intensive Region to an Arable Region: Exploration of Environmental Consequences. Sustainability, 2017, 9, 595.	3.2	18
54	A systematic approach for data analysis and prediction methods for annual energy profiles: An example for school buildings in Norway. Energy and Buildings, 2021, 247, 111160.	6.7	16

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55	Dynamic-MFA examination of Chilean housing stock: long-term changes and earthquake damage. Building Research and Information, 2014, 42, 343-358.	3.9	15
56	A method to extract fishersâ€™ knowledge (FK) to generate evidence for sustainable management of fishing gears. MethodsX, 2019, 6, 1044-1053.	1.6	14
57	Sustainable management of combustible household wasteâ€"Expanding the integrated evaluation model. Resources, Conservation and Recycling, 2008, 52, 1101-1111.	10.8	12
58	Importance of investment decisions and rehabilitation approaches in an ageing wastewater pipeline network. A case study of Oslo (Norway). Water Science and Technology, 2008, 58, 2279-2293.	2.5	12
59	Top-down spatially-explicit probabilistic estimation of building energy performance at a scale. Energy and Buildings, 2021, 238, 110786.	6.7	12
60	Industrial Ecology and Education. Journal of Industrial Ecology, 2001, 5, 1-2.	5.5	11
61	Systems analysis as support for decision making towards sustainable municipal waste management - a case study. Waste Management and Research, 2006, 24, 323-331.	3.9	11
62	Comparing CO2 and NOX emissions from a district heating system with mass-burn waste incineration versus likely alternative solutions â€" City of Trondheim, 1986â€"2009. Resources, Conservation and Recycling, 2012, 60, 147-158.	10.8	11
63	Methodology for determining life-cycle environmental impacts due to material and energy flows in wastewater pipeline networks: A case study of Oslo (Norway). Urban Water Journal, 2011, 8, 119-134.	2.1	10
64	Optimizing Road Gradients Regarding Earthwork Cost, Fuel Cost, and Tank-to-Wheel Emissions. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	1.4	10
65	Towards a LCA Database for the Planning and Design of Zero-Emissions Neighborhoods. Buildings, 2022, 12, 512.	3.1	10
66	Teaching Industrial Ecology to Graduate Students: Experiences at the Norwegian University of Science and Technology. Journal of Industrial Ecology, 1999, 3, 117-130.	5.5	9
67	Dynamic material flow analysis for PCBs in the Norwegian building stock. Building Research and Information, 2014, 42, 359-370.	3.9	9
68	Environmental analysis of chemicals and energy consumption in water treatment plants: case study of Oslo, Norway. Water Science and Technology: Water Supply, 2012, 12, 200-211.	2.1	8
69	Typifying cities to streamline the selection of relevant environmental sustainability indicators for urban water supply and sewage handling systems: a recommendation. Environment, Development and Sustainability, 2013, 15, 765-782.	5.0	8
70	CONSIDERATION OF LIFE CYCLE ENERGY USE AND GREENHOUSE GAS EMISSIONS IN ROAD INFRASTRUCTURE PLANNING PROCESSES: EXAMPLES OF SWEDEN, NORWAY, DENMARK AND THE NETHERLANDS. Journal of Environmental Assessment Policy and Management, 2014, 16, 1450038.	7.9	7
71	Life cycle assessment of winter road maintenance. International Journal of Life Cycle Assessment, 2020, 25, 646-661.	4.7	7
72	Winners of the 2014 Graedel Prizes: The <i>JIE</i> Best Paper Prizes. Journal of Industrial Ecology, 2015, 19, 521-523.	5.5	6

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73	Introducing First Winners of the Graedel Prize: The <i>JIE</i> Best Paper Prizes. Journal of Industrial Ecology, 2015, 19, 185-188.	5.5	6
74	Winners of the 2015 Graedel Prizes: The <i>JIE</i> Best Paper Prizes. Journal of Industrial Ecology, 2016, 20, 1256-1259.	5.5	6
75	Winners of the 2016 Graedel Prizes: The Journal of Industrial Ecology Best Paper Prizes. Journal of Industrial Ecology, 2017, 21, 1446-1448.	5.5	6
76	Life cycle assessment as decision-support in choice of road corridor: case study and stakeholder perspectives. International Journal of Sustainable Transportation, 2021, 15, 678-695.	4.1	5
77	Environmental co-benefits and trade-offs of climate mitigation strategies applied to net-zero-emission neighbourhoods. International Journal of Life Cycle Assessment, 2021, 26, 2263-2277.	4.7	5
78	Studying the demand-side vis-Ã-vis the supply-side of urban water systems â€“ case study of Oslo, Norway. Environmental Technology (United Kingdom), 2014, 35, 2322-2333.	2.2	4
79	Future energy pathways for a university campus considering possibilities for energy efficiency improvements. IOP Conference Series: Earth and Environmental Science, 2019, 352, 012037.	0.3	3
80	The effect of building attributes on the energy performance at a scale: an inferential analysis. Building Research and Information, 0, , 1-19.	3.9	3
81	Hybrid life cycle assessment at the neighbourhood scale: The case of Ydalir, Norway. Cleaner Engineering and Technology, 2022, 8, 100503.	4.0	3
82	Use of LCA to evaluate solutions for water and waste infrastructure in the early planning phase of carbonâ€neutral urban settlements. Smart and Sustainable Built Environment, 2013, 2, 28-42.	4.0	2
83	Analyzing a cityâ€™s metabolism. , 2014, , .		2
84	Embodied emission profiles of building types: guidance for emission reduction in the early phases of construction projects. IOP Conference Series: Earth and Environmental Science, 2020, 410, 012069.	0.3	1
85	Influence of emerging technologies deployment in residential built stock on electric energy cost and grid load. IOP Conference Series: Earth and Environmental Science, 2019, 352, 012038.	0.3	0