

Helge Bratteb

List of Publications by Citations

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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	Carbon emissions of infrastructure development. <i>Environmental Science & Technology</i> , 2013 , 47, 11739-46	10.3	238
79	Energy consumption, costs and environmental impacts for urban water cycle services: Case study of Oslo (Norway). <i>Energy</i> , 2011 , 36, 792-800	7.9	120
78	Projection of Construction and Demolition Waste in Norway. <i>Journal of Industrial Ecology</i> , 2008 , 11, 27-39.	3.2	119
77	Dynamic material flow analysis for Norway's dwelling stock. <i>Building Research and Information</i> , 2007 , 35, 557-570	4.3	110
76	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> , 2016 , 132, 26-38	7	93
75	Understanding the water-energy-carbon nexus in urban water utilities: Comparison of four city case studies and the relevant influencing factors. <i>Energy</i> , 2014 , 75, 153-166	7.9	91
74	Sustainable management of demolition waste – An integrated model for the evaluation of environmental, economic and social aspects. <i>Resources, Conservation and Recycling</i> , 2003 , 38, 317-334	11.9	77
73	Towards modelling of construction, renovation and demolition activities: Norway's dwelling stock, 1900–2010. <i>Building Research and Information</i> , 2008 , 36, 412-425	4.3	63
72	Combined MFA-LCA for Analysis of Wastewater Pipeline Networks. <i>Journal of Industrial Ecology</i> , 2009 , 13, 532-550	7.2	56
71	Environmental Life Cycle Assessment of Bridges. <i>Journal of Bridge Engineering</i> , 2013 , 18, 153-161	2.7	52
70	Life cycle assessment of the water and wastewater system in Trondheim, Norway – A case study. <i>Urban Water Journal</i> , 2014 , 11, 323-334	2.3	49
69	Dynamic building stock modelling: General algorithm and exemplification for Norway. <i>Energy and Buildings</i> , 2016 , 132, 13-25	7	44
68	Using a dynamic segmented model to examine future renovation activities in the Norwegian dwelling stock. <i>Energy and Buildings</i> , 2014 , 82, 287-295	7	41
67	Exploring built environment stock metabolism and sustainability by systems analysis approaches. <i>Building Research and Information</i> , 2009 , 37, 569-582	4.3	36
66	Exploring the pathway from zero-energy to zero-emission building solutions: A case study of a Norwegian office building. <i>Energy and Buildings</i> , 2019 , 188-189, 84-97	7	35
65	LCA modelling for Zero Emission Neighbourhoods in early stage planning. <i>Building and Environment</i> , 2019 , 149, 379-389	6.5	34
64	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> , 2017 , 146, 220-232	7	33

63	Dynamic Eco-Efficiency Projections for Construction and Demolition Waste Recycling Strategies at the City Level. <i>Journal of Industrial Ecology</i> , 2008 , 12, 52-68	7.2	33
62	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> , 2018 , 615, 219-227	10.2	32
61	Analysis of energy and carbon flows in the future Norwegian dwelling stock. <i>Building Research and Information</i> , 2012 , 40, 123-139	4.3	31
60	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> , 2020 , 719, 137353	10.2	30
59	Asset Management for Urban Wastewater Pipeline Networks. <i>Journal of Infrastructure Systems</i> , 2010 , 16, 112-121	2.9	30
58	LCA for household waste management when planning a new urban settlement. <i>Waste Management</i> , 2012 , 32, 1482-90	8.6	29
57	Toward a Methods Framework for Eco-efficiency Analysis?. <i>Journal of Industrial Ecology</i> , 2005 , 9, 9-11	7.2	29
56	Environmental impact analysis of chemicals and energy consumption in wastewater treatment plants: case study of Oslo, Norway. <i>Water Science and Technology</i> , 2011 , 63, 1018-31	2.2	28
55	Metabolism-modelling approaches to long-term sustainability assessment of urban water services. <i>Urban Water Journal</i> , 2017 , 14, 11-22	2.3	27
54	Assessment of Food Waste Prevention and Recycling Strategies Using a Multilayer Systems Approach. <i>Environmental Science & Technology</i> , 2015 , 49, 13937-45	10.3	27
53	Dynamic metabolism modelling of urban water services--demonstrating effectiveness as a decision-support tool for Oslo, Norway. <i>Water Research</i> , 2014 , 61, 19-33	12.5	27
52	Investigating Cross-Sectoral Synergies through Integrated Aquaculture, Fisheries, and Agriculture Phosphorus Assessments: A Case Study of Norway. <i>Journal of Industrial Ecology</i> , 2016 , 20, 867-881	7.2	26
51	A multi-regional soil phosphorus balance for exploring secondary fertilizer potential: the case of Norway. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 307-320	3.3	26
50	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> , 2014 , 85, 136-144	7	26
49	Historical energy analysis of the Norwegian dwelling stock. <i>Building Research and Information</i> , 2011 , 39, 1-15	4.3	26
48	Waste prevention, energy recovery or recycling - Directions for household food waste management in light of circular economy policy. <i>Resources, Conservation and Recycling</i> , 2020 , 160, 104908	11.9	25
47	Influence of assumptions about household waste composition in waste management LCAs. <i>Waste Management</i> , 2013 , 33, 212-9	8.6	24
46	Exploring urban mines: pipe length and material stocks in urban water and wastewater networks. <i>Urban Water Journal</i> , 2014 , 11, 274-283	2.3	22

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> , 2016 , 132, 141-153	7	22
44	A review of environmental impacts of winter road maintenance. <i>Cold Regions Science and Technology</i> , 2019 , 158, 143-153	3.8	22
43	Comparative emission analysis of low-energy and zero-emission buildings. <i>Building Research and Information</i> , 2018 , 46, 367-382	4.3	22
42	Recycling potential of secondary phosphorus resources as assessed by integrating substance flow analysis and plant-availability. <i>Science of the Total Environment</i> , 2017 , 575, 1546-1555	10.2	20
41	An analytical method for evaluating and visualizing embodied carbon emissions of buildings. <i>Building and Environment</i> , 2020 , 168, 106476	6.5	20
40	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> , 2018 , 168, 457-469	7	19
39	Sustainable Business Models for Deep Energy Retrofitting of Buildings: State-of-the-art and Methodological Approach. <i>Energy Procedia</i> , 2016 , 96, 435-445	2.3	16
38	Performing quantitative analyses towards sustainable business models in building energy renovation projects: Analytic process and case study. <i>Journal of Cleaner Production</i> , 2018 , 199, 1092-1106	10.3	16
37	Assessment of Environmental Impacts of an Aging and Stagnating Water Supply Pipeline Network. <i>Journal of Industrial Ecology</i> , 2012 , 16, 722-734	7.2	16
36	Redistributing Phosphorus in Animal Manure from a Livestock-Intensive Region to an Arable Region: Exploration of Environmental Consequences. <i>Sustainability</i> , 2017 , 9, 595	3.6	16
35	Estimating dynamic climate change effects of material use in buildings: Timing, uncertainty, and emission sources. <i>Building and Environment</i> , 2021 , 187, 107399	6.5	16
34	Combining Life Cycle Environmental and Economic Assessments in Building Energy Renovation Projects. <i>Energies</i> , 2017 , 10, 1851	3.1	15
33	Analysis of chemicals and energy consumption in water and wastewater treatment, as cost components: Case study of Oslo, Norway. <i>Urban Water Journal</i> , 2011 , 8, 189-202	2.3	15
32	A life-cycle assessment model for zero emission neighborhoods. <i>Journal of Industrial Ecology</i> , 2020 , 24, 500-516	7.2	14
31	Temporal analysis of the material flows and embodied greenhouse gas emissions of a neighborhood building stock. <i>Journal of Industrial Ecology</i> , 2021 , 25, 419-434	7.2	14
30	Using Material Flow Analysis (MFA) to generate the evidence on plastic waste management from commercial fishing gears in Norway. <i>Resources Conservation & Recycling X</i> , 2020 , 5, 100024	3.9	13
29	Dynamic-MFA examination of Chilean housing stock: long-term changes and earthquake damage. <i>Building Research and Information</i> , 2014 , 42, 343-358	4.3	12
28	Historical analysis of blockages in wastewater pipelines in Oslo and diagnosis of causative pipeline characteristics. <i>Urban Water Journal</i> , 2010 , 7, 335-343	2.3	11

27	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> , 2021 , 152, 112114	7.2	11
26	Sustainable management of combustible household wasteExpanding the integrated evaluation model. <i>Resources, Conservation and Recycling</i> , 2008 , 52, 1101-1111	11.9	10
25	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> , 2012 , 60, 147-158	11.9	9
24	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> , 2011 , 8, 119-134	2.3	9
23	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> , 2008 , 58, 2279-93	2.2	9
22	Environmental analysis of chemicals and energy consumption in water treatment plants: case study of Oslo, Norway. <i>Water Science and Technology: Water Supply</i> , 2012 , 12, 200-211	1.4	8
21	Teaching Industrial Ecology to Graduate Students: Experiences at the Norwegian University of Science and Technology. <i>Journal of Industrial Ecology</i> , 1999 , 3, 117-130	7.2	8
20	Systems analysis as support for decision making towards sustainable municipal waste management--a case study. <i>Waste Management and Research</i> , 2006 , 24, 323-31	4	7
19	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> , 2013 , 15, 765-782	4.5	6
18	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> , 2014 , 16, 1450038	1.3	6
17	A method to extract fishers' knowledge (FK) to generate evidence for sustainable management of fishing gears. <i>MethodsX</i> , 2019 , 6, 1044-1053	1.9	5
16	Dynamic material flow analysis for PCBs in the Norwegian building stock. <i>Building Research and Information</i> , 2014 , 42, 359-370	4.3	5
15	Industrial Ecology and Education. <i>Journal of Industrial Ecology</i> , 2001 , 5, 1-2	7.2	5
14	Top-down spatially-explicit probabilistic estimation of building energy performance at a scale. <i>Energy and Buildings</i> , 2021 , 238, 110786	7	5
13	Optimizing Road Gradients Regarding Earthwork Cost, Fuel Cost, and Tank-to-Wheel Emissions. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020 , 146, 04019079	1.5	4
12	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> , 2014 , 35, 2322-33	2.6	3
11	Life cycle assessment of winter road maintenance. <i>International Journal of Life Cycle Assessment</i> , 2020 , 25, 646-661	4.6	3
10	Future energy pathways for a university campus considering possibilities for energy efficiency improvements. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 352, 012037	0.3	3

9	Life cycle assessment as decision-support in choice of road corridor: case study and stakeholder perspectives. <i>International Journal of Sustainable Transportation</i> , 2021 , 15, 678-695	3.6	2
8	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
7	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> , 2020 , 410, 012069	0.3	1
6	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> , 2013 , 2, 28-42	3	1
5	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> , 2021 , 247, 111160	7	1
4	Towards a LCA Database for the Planning and Design of Zero-Emissions Neighborhoods. <i>Buildings</i> , 2022 , 12, 512	3.2	1
3	Hybrid life cycle assessment at the neighbourhood scale: The case of Ydalir, Norway. <i>Cleaner Engineering and Technology</i> , 2022 , 8, 100503	2.7	1
2	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
1	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> , 2019 , 352, 012038	0.3	