Holger Wallbaum

List of Publications by Year in descending order

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85 papers	2,240 citations	236925 25 h-index	233421 45 g-index
88 all docs	88 docs citations	88 times ranked	2451 citing authors

#	Article	IF	Citations
1	Development of the ASHRAE Global Thermal Comfort Database II. Building and Environment, 2018, 142, 502-512.	6.9	279
2	Impact of sustainable office buildings on occupant's comfort and productivity. Journal of Corporate Real Estate, 2013, 15, 7-34.	1.9	113
3	Environmental product declarations entering the building sector: critical reflections based on 5 to 10Âyears experience in different European countries. International Journal of Life Cycle Assessment, 2015, 20, 1199-1212.	4.7	113
4	A differentiated description of building-stocks for a georeferenced urban bottom-up building-stock model. Energy and Buildings, 2016, 120, 78-84.	6.7	94
5	Environmental Impact of Buildingsâ€"What Matters?. Environmental Science & Technology, 2015, 49, 9832-9841.	10.0	87
6	A component based bottom-up building stock model for comprehensive environmental impact assessment and target control. Renewable and Sustainable Energy Reviews, 2013, 20, 45-56.	16.4	85
7	Accounting for the social dimension of sustainability: experiences from the biotechnology industry. Business Strategy and the Environment, 2006, 15, 334-346.	14.3	79
8	Indicator based sustainability assessment tool for affordable housing construction technologies. Ecological Indicators, 2012, 18, 353-364.	6.3	73
9	Multidimensional Pareto optimization as an approach for site-specific building refurbishment solutions applicable for life cycle sustainability assessment. International Journal of Life Cycle Assessment, 2013, 18, 1762-1779.	4.7	71
10	Harnessing stakeholder motivation: towards a Swiss sustainable building sector. Building Research and Information, 2011, 39, 504-517.	3.9	64
11	A new systemic approach to improve the sustainability performance of office buildings in the early design stage. Energy and Buildings, 2015, 109, 385-396.	6.7	62
12	Relative importance of electricity sources and construction practices in residential buildings: A Swiss-US comparison of energy related life-cycle impacts. Energy and Buildings, 2014, 68, 620-631.	6.7	55
13	Handling data uncertainties when using Swedish energy performance certificate data to describe energy usage in the building stock. Energy and Buildings, 2015, 102, 328-336.	6.7	53
14	Socio-economic impact of renovation and energy retrofitting of the Gothenburg building stock. Energy and Buildings, 2016, 123, 41-49.	6.7	53
15	Prioritizing Sustainability Criteria in Urban Planning Processes: Methodology Application. Journal of the Urban Planning and Development Division, ASCE, 2011, 137, 20-28.	1.7	50
16	Sustainable Potential of Textile-Reinforced Concrete. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	48
17	Optimized maintenance and renovation scheduling in multifamily buildings â€“ a systematic approach based on condition state and life cycle cost of building components. Construction Management and Economics, 2019, 37, 139-155.	3.0	48
18	Rental price and sustainability ratings: which sustainability criteria are really paying back?. Construction Management and Economics, 2013, 31, 322-334.	3.0	47

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19	Sustainability of Social Housing in Asia: A Holistic Multi-Perspective Development Process for Bamboo-Based Construction in the Philippines. Sustainability, 2016, 8, 151.	3.2	37
20	A review of environmental impacts of winter road maintenance. Cold Regions Science and Technology, 2019, 158, 143-153.	3.5	35
21	The importance of life-cycle based planning in maintenance and energy renovation of multifamily buildings. Sustainable Cities and Society, 2019, 44, 715-725.	10.4	34
22	Sustainability and property valuation: a risk-based approach. Building Research and Information, 2010, 38, 280-300.	3.9	33
23	Perceived contribution of indicator systems to sustainable development in developing countries. Sustainable Development, 2013, 21, 18-29.	12.5	33
24	Investigation of regional conditions and sustainability indicators for sustainable product development of building materials. Journal of Cleaner Production, 2018, 196, 1356-1364.	9.3	31
25	A service-life cycle approach to maintenance and energy retrofit planning for building portfolios. Building and Environment, 2019, 160, 106212.	6.9	31
26	Ways to get work done: a review and systematisation of simplification practices in the LCA literature. International Journal of Life Cycle Assessment, 2020, 25, 2154-2168.	4.7	26
27	Factors for Eco-Efficiency Improvement of Thermal Insulation Materials. Key Engineering Materials, 0, 678, 1-13.	0.4	23
28	Spatial analysis of urban material stock with clustering algorithms: A Northern European case study. Journal of Industrial Ecology, 2019, 23, 1328-1343.	5.5	23
29	Life-Cycle Assessment of the Production of Swiss Road Materials. Journal of Materials in Civil Engineering, 2012, 24, 168-176.	2.9	22
30	Prioritizing deep renovation for housing portfolios. Energy and Buildings, 2019, 202, 109361.	6.7	22
31	Environmental performance of social housing in emerging economies: life cycle assessment of conventional and alternative construction methods in the Philippines. International Journal of Life Cycle Assessment, 2017, 22, 1785-1801.	4.7	21
32	Explorative life-cycle assessment of renovating existing urban housing-stocks. Building and Environment, 2019, 165, 106391.	6.9	19
33	How Adding a Battery to a Grid-Connected Photovoltaic System Can Increase its Economic Performance: A Comparison of Different Scenarios. Energies, 2019, 12, 30.	3.1	18
34	Spatiotemporal characteristics of residential material stocks and flows in urban, commuter, and rural settlements. Journal of Cleaner Production, 2020, 251, 119435.	9.3	18
35	Preliminary investigation of a vapor-open envelope tailored for subtropical climate. Building and Environment, 2011, 46, 719-728.	6.9	17
36	Life Cycle Assessment of Representative Swiss Road Pavements for National Roads with an Accompanying Life Cycle Cost Analysis. Environmental Science & Technology, 2013, 47, 130718092515005.	10.0	16

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37	EVALUATION OF STRATEGIC BUILDING MAINTENANCE AND REFURBISHMENT BUDGETING METHOD SCHROEDER. International Journal of Strategic Property Management, 2014, 18, 393-406.	1.8	16
38	Scoping review of health in office design approaches. Journal of Corporate Real Estate, 2020, 22, 155-180.	1.9	16
39	Building Inventory and Refurbishment Scenario Database Development for Switzerland. Journal of Industrial Ecology, 2018, 22, 629-642.	5.5	15
40	Heat and moisture balance simulation of a building with vapor-open envelope system for subtropical regions. Building Simulation, 2012, 5, 301-314.	5.6	14
41	Stakeholder Specific Multi-Scale Spatial Representation of Urban Building-Stocks. ISPRS International Journal of Geo-Information, 2018, 7, 173.	2.9	14
42	Building Ownership, Renovation Investments, and Energy Performanceâ€"A Study of Multi-Family Dwellings in Gothenburg. Sustainability, 2018, 10, 1684.	3.2	14
43	Trade-Off between the Social and Environmental Performance of Green Concrete: The Case of 6 Countries. Sustainability, 2018, 10, 2309.	3.2	14
44	Cost-Optimal Maintenance and Renovation Planning in Multifamily Buildings with Annual Budget Constraints. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	3.8	14
45	Lessons from seven sustainability indicator programs in developing countries of Asia. Ecological Indicators, 2011, 11, 1385-1395.	6.3	13
46	Constraints to implementation of sustainability indicator systems in five Asian cities. Local Environment, 2010, 15, 731-742.	2.4	12
47	Environmental analysis of new construction and maintenance processes of road pavements in Switzerland. Structure and Infrastructure Engineering, 2014, 10, 1-24.	3.7	12
48	Transforming cities and health: policy, action, and meaning. Cities and Health, 2020, 4, 135-151.	2.6	12
49	On the usefulness of a cost-performance indicator curve at the strategic level for consideration of energy efficiency measures for building portfolios. Energy and Buildings, 2016, 119, 267-282.	6.7	11
50	The effect of different working parameters on the optimal size of a battery for grid-connected PV systems. Energy Procedia, 2017, 122, 595-600.	1.8	11
51	Hidden Ecological Potentials in the Production of Materials for Swiss Road Pavements. Journal of Management in Engineering - ASCE, 2012, 28, 13-21.	4.8	9
52	Towards a 2000 Watt society â€" assessing building-specific saving potentials of the Swiss residential building stock. International Journal of Sustainable Building Technology and Urban Development, 2012, 3, 43-49.	1.0	9
53	Regionalized environmental impacts of construction machinery. International Journal of Life Cycle Assessment, 2020, 25, 1472-1485.	4.7	9
54	Hygrothermal performance of a vapor-open envelope for subtropical climate, field test and model validation. Building and Environment, 2016, 110, 55-64.	6.9	8

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55	Determining Material Suitability for Low-Rise Housing in the Philippines: Physical and Mechanical Properties of the Bamboo Species Bambusa blumeana. BioResources, 2017, 13, .	1.0	7
56	Life cycle assessment of winter road maintenance. International Journal of Life Cycle Assessment, 2020, 25, 646-661.	4.7	7
57	A Framework for User Centric LCA Tool Development for Early Planning Stages of Buildings. Frontiers in Built Environment, 0, 8, .	2.3	6
58	Economic, ecological and thermo-hygric optimization of a vapor-open envelope for subtropical climates. Energy and Buildings, 2012, 55, 799-809.	6.7	5
59	A Review of Swedish Residential Building Stock Research. International Journal of Environmental Sustainability, 2015, 10, 1-17.	0.3	4
60	Machine learningâ€based stocks and flows modeling of road infrastructure. Journal of Industrial Ecology, 2022, 26, 44-57.	5.5	4
61	Road Planning and Route Alignment Selection Criteria in the Norwegian Context. IOP Conference Series: Materials Science and Engineering, 0, 471, 062007.	0.6	3
62	Comparing Different PV Module Types and Brands Under Working Conditions in the United Kingdom. , 0, , .		3
63	How Does Office Design Support Employeesâ€™ Health? A Case Study on the Relationships among Employeesâ€™ Perceptions of the Office Environment, Their Sense of Coherence and Office Design. International Journal of Environmental Research and Public Health, 2021, 18, 12779.	2.6	3
64	A Swedish comment on â€˜review: the availability of life-cycle studies in Swedenâ€™. International Journal of Life Cycle Assessment, 2019, 24, 1758-1759.	4.7	2
65	Estimation of Norwegian Asphalt Surfacing Lifetimes Using Survival Analysis Coupled with Road Spatial Data. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 04019017.	1.5	2
66	Bridging the gap between assessment and action: recommendations for the effective use of LCA in the building process. IOP Conference Series: Earth and Environmental Science, 2020, 588, 022007.	0.3	2
67	Improving indoor environmental quality (IEQ) for occupant health and well-being: A case study of Swedish office building. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032072.	0.3	2
68	The effect of highway geometry on fuel consumption of heavy-duty vehicles operating in eco-driving mode. , 2017, , .		2
69	Bridging the data gap. , 2004, , .		2
70	Nutzer- und klimaangepasstes Bauen - Leitbild und Chance fÃ¼r die globale Verbreitung von nachhaltigen GebÃudelÃ¶sungen. Bautechnik, 2011, 88, 3-16.	0.1	1
71	Identify Optimal Renovation Packages for Residential Buildings: A State-of-the-Art Computational Model. IOP Conference Series: Earth and Environmental Science, 2019, 297, 012018.	0.3	1
72	Life Cycle Management of Infrastructures. Encyclopedia of the UN Sustainable Development Goals, 2021, , 678-693.	0.1	1

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73	Sabento Model: Social Assessment of Biotechnological Production. , 2006, , 207-213.		1
74	DREEAM, Demonstration of an integrated Renovation approach for Energy Efficiency At the Multi building scale, Horizon2020. Impact, 2017, 2017, 23-25.	0.1	1
75	Smart and Sustainable Offices (SSO): PresentaciÃ³n de un enfoque holÃstico para implementar la prÃ³xima generaciÃ³n de oficinas. Informes De La Construccion, 2017, 69, 221.	0.3	1
76	Life Cycle Management of Infrastructures. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-16.	0.1	1
77	Emerging regulatory policies for eco-efficiency. , 2004, , .		1
78	An Approach to Identify Resource Patterns on a Neighborhood Level. Eco-efficiency in Industry and Science, 2018, , 317-323.	0.1	0
79	Health & wellbeing in offices - A study of literature on the Nordic perspective. IOP Conference Series: Earth and Environmental Science, 2019, 297, 012013.	0.3	0
80	Energy Efficiency Measures and Data Needs. The Case of the European Building Portfolio Owners. IOP Conference Series: Earth and Environmental Science, 2020, 503, 012101.	0.3	0
81	Numerical and real-life assessment of the moisture safety of CLT structure with PIR insulation composite under the Swedish climate. E3S Web of Conferences, 2020, 172, 10004.	0.5	0
82	Impact of New European Facility Management Standards on Building Cost Structures. , 2011, , .		0
83	Application of Industrial Maintenance Methods on Building Maintenance. , 2011, , .		0
84	Estimating the Ground Temperature Around Energy Piles Using Artificial Neural Networks. Advances in Intelligent Systems and Computing, 2020, , 223-229.	0.6	0
85	Ecoprofit: Local Learning for Integrated Environmental Technologies. , 2007, , .		0