

Holger Wallbaum

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/387596/publications.pdf>

Version: 2024-02-01

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	Machine learning-based stocks and flows modeling of road infrastructure. <i>Journal of Industrial Ecology</i> , 2022, 26, 44-57.	5.5	4
2	Life Cycle Management of Infrastructures. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2021, , 678-693.	0.1	1
3	How Does Office Design Support Employees' Health? A Case Study on the Relationships among Employees' Perceptions of the Office Environment, Their Sense of Coherence and Office Design. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12779.	2.6	3
4	Cost-Optimal Maintenance and Renovation Planning in Multifamily Buildings with Annual Budget Constraints. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	3.8	14
5	Spatiotemporal characteristics of residential material stocks and flows in urban, commuter, and rural settlements. <i>Journal of Cleaner Production</i> , 2020, 251, 119435.	9.3	18
6	Life cycle assessment of winter road maintenance. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 646-661.	4.7	7
7	Ways to get work done: a review and systematisation of simplification practices in the LCA literature. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 2154-2168.	4.7	26
8	Scoping review of health in office design approaches. <i>Journal of Corporate Real Estate</i> , 2020, 22, 155-180.	1.9	16
9	Energy Efficiency Measures and Data Needs. The Case of the European Building Portfolio Owners. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 503, 012101.	0.3	0
10	Regionalized environmental impacts of construction machinery. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 1472-1485.	4.7	9
11	Transforming cities and health: policy, action, and meaning. <i>Cities and Health</i> , 2020, 4, 135-151.	2.6	12
12	Numerical and real-life assessment of the moisture safety of CLT structure with PIR insulation composite under the Swedish climate. <i>E3S Web of Conferences</i> , 2020, 172, 10004.	0.5	0
13	Bridging the gap between assessment and action: recommendations for the effective use of LCA in the building process. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 588, 022007.	0.3	2
14	Improving indoor environmental quality (IEQ) for occupant health and well-being: A case study of Swedish office building. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 588, 032072.	0.3	2
15	Estimating the Ground Temperature Around Energy Piles Using Artificial Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 223-229.	0.6	0
16	A Swedish comment on "review: the availability of life-cycle studies in Sweden". <i>International Journal of Life Cycle Assessment</i> , 2019, 24, 1758-1759.	4.7	2
17	Prioritizing deep renovation for housing portfolios. <i>Energy and Buildings</i> , 2019, 202, 109361.	6.7	22
18	A service-life cycle approach to maintenance and energy retrofit planning for building portfolios. <i>Building and Environment</i> , 2019, 160, 106212.	6.9	31

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Explorative life-cycle assessment of renovating existing urban housing-stocks. Building and Environment, 2019, 165, 106391.	6.9	19
23	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
24	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
25	A review of environmental impacts of winter road maintenance. Cold Regions Science and Technology, 2019, 158, 143-153.	3.5	35
26	Optimized maintenance and renovation scheduling in multifamily buildings – 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
27	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
28	Life Cycle Management of Infrastructures. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-16.	0.1	1
29	An Approach to Identify Resource Patterns on a Neighborhood Level. Eco-efficiency in Industry and Science, 2018, , 317-323.	0.1	0
30	Building Inventory and Refurbishment Scenario Database Development for Switzerland. Journal of Industrial Ecology, 2018, 22, 629-642.	5.5	15
31	Development of the ASHRAE Global Thermal Comfort Database II. Building and Environment, 2018, 142, 502-512.	6.9	279
32	Stakeholder Specific Multi-Scale Spatial Representation of Urban Building-Stocks. ISPRS International Journal of Geo-Information, 2018, 7, 173.	2.9	14
33	Building Ownership, Renovation Investments, and Energy Performance – A Study of Multi-Family Dwellings in Gothenburg. Sustainability, 2018, 10, 1684.	3.2	14
34	Trade-Off between the Social and Environmental Performance of Green Concrete: The Case of 6 Countries. Sustainability, 2018, 10, 2309.	3.2	14
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Environmental performance of social housing in emerging economies: life cycle assessment of conventional and alternative construction methods in the Philippines. <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 1785-1801.	4.7	21
38	Determining Material Suitability for Low-Rise Housing in the Philippines: Physical and Mechanical Properties of the Bamboo Species <i>Bambusa blumeana</i> . <i>BioResources</i> , 2017, 13, .	1.0	7
39	The effect of highway geometry on fuel consumption of heavy-duty vehicles operating in eco-driving mode. , 2017, , .		2
40	DREEAM, Demonstration of an integrated Renovation approach for Energy Efficiency At the Multi building scale, <i>Horizon2020. Impact</i> , 2017, 2017, 23-25.	0.1	1
41	Smart and Sustainable Offices (SSO): Presentaci3n de un enfoque hol3stico para implementar la pr3xima generaci3n de oficinas. <i>Informes De La Construcci3n</i> , 2017, 69, 221.	0.3	1
42	Sustainability of Social Housing in Asia: A Holistic Multi-Perspective Development Process for Bamboo-Based Construction in the Philippines. <i>Sustainability</i> , 2016, 8, 151.	3.2	37
43	Hygrothermal performance of a vapor-open envelope for subtropical climate, field test and model validation. <i>Building and Environment</i> , 2016, 110, 55-64.	6.9	8
44	A differentiated description of building-stocks for a georeferenced urban bottom-up building-stock model. <i>Energy and Buildings</i> , 2016, 120, 78-84.	6.7	94
45	Socio-economic impact of renovation and energy retrofitting of the Gothenburg building stock. <i>Energy and Buildings</i> , 2016, 123, 41-49.	6.7	53
46	On the usefulness of a cost-performance indicator curve at the strategic level for consideration of energy efficiency measures for building portfolios. <i>Energy and Buildings</i> , 2016, 119, 267-282.	6.7	11
47	Handling data uncertainties when using Swedish energy performance certificate data to describe energy usage in the building stock. <i>Energy and Buildings</i> , 2015, 102, 328-336.	6.7	53
48	Environmental Impact of Buildings3What Matters?. <i>Environmental Science & Technology</i> , 2015, 49, 9832-9841.	10.0	87
49	A new systemic approach to improve the sustainability performance of office buildings in the early design stage. <i>Energy and Buildings</i> , 2015, 109, 385-396.	6.7	62
50	Sustainable Potential of Textile-Reinforced Concrete. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	48
51	Environmental product declarations entering the building sector: critical reflections based on 5 to 103years experience in different European countries. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 1199-1212.	4.7	113
52	A Review of Swedish Residential Building Stock Research. <i>International Journal of Environmental Sustainability</i> , 2015, 10, 1-17.	0.3	4
53	EVALUATION OF STRATEGIC BUILDING MAINTENANCE AND REFURBISHMENT BUDGETING METHOD SCHROEDER. <i>International Journal of Strategic Property Management</i> , 2014, 18, 393-406.	1.8	16
54	Environmental analysis of new construction and maintenance processes of road pavements in Switzerland. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 1-24.	3.7	12

#	ARTICLE	IF	CITATIONS
55	Relative importance of electricity sources and construction practices in residential buildings: A Swiss-US comparison of energy related life-cycle impacts. <i>Energy and Buildings</i> , 2014, 68, 620-631.	6.7	55
56	Perceived contribution of indicator systems to sustainable development in developing countries. <i>Sustainable Development</i> , 2013, 21, 18-29.	12.5	33
57	Multidimensional Pareto optimization as an approach for site-specific building refurbishment solutions applicable for life cycle sustainability assessment. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1762-1779.	4.7	71
58	Life Cycle Assessment of Representative Swiss Road Pavements for National Roads with an Accompanying Life Cycle Cost Analysis. <i>Environmental Science & Technology</i> , 2013, 47, 130718092515005.	10.0	16
59	A component based bottom-up building stock model for comprehensive environmental impact assessment and target control. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 20, 45-56.	16.4	85
60	Rental price and sustainability ratings: which sustainability criteria are really paying back?. <i>Construction Management and Economics</i> , 2013, 31, 322-334.	3.0	47
61	Impact of sustainable office buildings on occupant's comfort and productivity. <i>Journal of Corporate Real Estate</i> , 2013, 15, 7-34.	1.9	113
62	Hidden Ecological Potentials in the Production of Materials for Swiss Road Pavements. <i>Journal of Management in Engineering - ASCE</i> , 2012, 28, 13-21.	4.8	9
63	Life-Cycle Assessment of the Production of Swiss Road Materials. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 168-176.	2.9	22
64	Towards a 2000 Watt society – assessing building-specific saving potentials of the Swiss residential building stock. <i>International Journal of Sustainable Building Technology and Urban Development</i> , 2012, 3, 43-49.	1.0	9
65	Economic, ecological and thermo-hygric optimization of a vapor-open envelope for subtropical climates. <i>Energy and Buildings</i> , 2012, 55, 799-809.	6.7	5
66	Indicator based sustainability assessment tool for affordable housing construction technologies. <i>Ecological Indicators</i> , 2012, 18, 353-364.	6.3	73
67	Heat and moisture balance simulation of a building with vapor-open envelope system for subtropical regions. <i>Building Simulation</i> , 2012, 5, 301-314.	5.6	14
68	Lessons from seven sustainability indicator programs in developing countries of Asia. <i>Ecological Indicators</i> , 2011, 11, 1385-1395.	6.3	13
69	Nutzer- und klimaangepasstes Bauen - Leitbild und Chance für die globale Verbreitung von nachhaltigen Gebäudesystemen. <i>Bautechnik</i> , 2011, 88, 3-16.	0.1	1
70	Preliminary investigation of a vapor-open envelope tailored for subtropical climate. <i>Building and Environment</i> , 2011, 46, 719-728.	6.9	17
71	Prioritizing Sustainability Criteria in Urban Planning Processes: Methodology Application. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2011, 137, 20-28.	1.7	50
72	Harnessing stakeholder motivation: towards a Swiss sustainable building sector. <i>Building Research and Information</i> , 2011, 39, 504-517.	3.9	64

#	ARTICLE	IF	CITATIONS
73	Impact of New European Facility Management Standards on Building Cost Structures. , 2011, , .		0
74	Application of Industrial Maintenance Methods on Building Maintenance. , 2011, , .		0
75	Sustainability and property valuation: a risk-based approach. Building Research and Information, 2010, 38, 280-300.	3.9	33
76	Constraints to implementation of sustainability indicator systems in five Asian cities. Local Environment, 2010, 15, 731-742.	2.4	12
77	Ecoprofit: Local Learning for Integrated Environmental Technologies. , 2007, , .		0
78	Accounting for the social dimension of sustainability: experiences from the biotechnology industry. Business Strategy and the Environment, 2006, 15, 334-346.	14.3	79
79	Sabento Model: Social Assessment of Biotechnological Production. , 2006, , 207-213.		1
80	Emerging regulatory policies for eco-efficiency. , 2004, , .		1
81	Bridging the data gap. , 2004, , .		2
82	Factors for Eco-Efficiency Improvement of Thermal Insulation Materials. Key Engineering Materials, 0, 678, 1-13.	0.4	23
83	Road Planning and Route Alignment Selection Criteria in the Norwegian Context. IOP Conference Series: Materials Science and Engineering, 0, 471, 062007.	0.6	3
84	Comparing Different PV Module Types and Brands Under Working Conditions in the United Kingdom. , 0, , .		3
85	A Framework for User Centric LCA Tool Development for Early Planning Stages of Buildings. Frontiers in Built Environment, 0, 8, .	2.3	6