Karen Allacker

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2904598/publications.pdf

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45 papers	1,357 citations	411340 20 h-index	388640 36 g-index
46 all docs	46 docs citations	46 times ranked	1438 citing authors

#	Article	IF	Citations
1	Early design phase energy predictions using a semi-dynamic approach as an accurate proxy for dynamic energy simulations. Energy and Buildings, 2022, 254, 111341.	3.1	1
2	Circularity of building stocks: modelling building joints and their disassembly in a 3D city model. Procedia CIRP, 2022, 105, 712-720.	1.0	9
3	Developing a Building Stock Model to Enable Clustered Renovationâ€"The City of Leuven as Case Study. Sustainability, 2022, 14, 5769.	1.6	3
4	Dynamic Versus Static Life Cycle Assessment of Energy Renovation for Residential Buildings. Sustainability, 2022, 14, 6838.	1.6	5
5	Visual tool for sustainable buildings: A design approach with various data visualisation techniques. Journal of Building Engineering, 2022, 56, 104741.	1.6	3
6	Urban GHG accounting: discrepancies, constraints and opportunities. Buildings and Cities, 2021, 2, 21-35.	1.1	4
7	Integrated energy, daylighting and visual comfort analysis of window systems in patient rooms. Science and Technology for the Built Environment, 2021, 27, 1040-1055.	0.8	4
8	Integrating long term temporal changes in the Belgian electricity mix in environmental attributional life cycle assessment of buildings. Journal of Cleaner Production, 2021, 297, 126624.	4.6	13
9	The population equivalent as a novel approach for life cycle assessment of cities and inter-city comparisons. International Journal of Life Cycle Assessment, 2021, 26, 1623-1647.	2.2	5
10	Environmental modelling of building stocks â€“ An integrated review of life cycle-based assessment models to support EU policy making. Renewable and Sustainable Energy Reviews, 2021, 151, 111550.	8.2	48
11	End-of-life modelling of buildings to support more informed decisions towards achieving circular economy targets. International Journal of Life Cycle Assessment, 2020, 25, 2122-2139.	2.2	27
12	Accounting for biogenic carbon and end-of-life allocation in life cycle assessment of multi-output wood cascade systems. Journal of Cleaner Production, 2020, 275, 122795.	4.6	24
13	Future heating and cooling degree days for Belgium under a high-end climate change scenario. Energy and Buildings, 2020, 216, 109935.	3.1	36
14	Bioclimatic Prosthesis: Experimental dataset for a low-cost Trombe wall to existing social housing refurbishment for an intermediate valley (ChillÃ¡n) city in the south of Chile. Data in Brief, 2020, 30, 105547.	0.5	3
15	Biogenic carbon in buildings: a critical overview of LCA methods. Buildings and Cities, 2020, 1, 504-524.	1.1	110
16	Carbon budgets for buildings: harmonising temporal, spatial and sectoral dimensions. Buildings and Cities, 2020, 1, 429-452.	1.1	50
17	Current trends and limitations of life cycle assessment applied to the urban scale: critical analysis and review of selected literature. International Journal of Life Cycle Assessment, 2019, 24, 1174-1193.	2.2	47
18	Development of an Approach to Assess the Life Cycle Environmental Impacts and Costs of General Hospitals through the Analysis of a Belgian Case. Sustainability, 2019, 11, 856.	1.6	14

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19	Energy simulation and LCA for macro-scale analysis of eco-innovations in the housing stock. International Journal of Life Cycle Assessment, 2019, 24, 989-1008.	2.2	43
20	Life-cycle assessment of timber frame constructions â€“ The case of rooftop extensions. Journal of Cleaner Production, 2019, 216, 333-345.	4.6	15
21	Modelling the Influence of Urban Planning on the Financial and Environmental Impact of Neighbourhoods. Energy, Environment, and Sustainability, 2019, , 17-37.	0.6	0
22	Future Weather Data for Dynamic Building Energy Simulations: Overview of Available Data and Presentation of Newly Derived Data for Belgium. Energy, Environment, and Sustainability, 2019, , 111-138.	0.6	7
23	Environmental Performance of Advanced Window Systems in Patient Rooms. Procedia CIRP, 2018, 69, 166-171.	1.0	4
24	The Assessment of Urban Environmental Impacts through the City Environmental Footprint: Methodological Framework and First Approach to the Built Environment. Procedia CIRP, 2018, 69, 83-88.	1.0	6
25	Strategies to Improve the Energy Performance of Buildings: A Review of Their Life Cycle Impact. Buildings, 2018, 8, 105.	1.4	49
26	Geometric service life modelling and discounting, a practical method for parametrised life cycle assessment. International Journal of Life Cycle Assessment, 2017, 22, 1191-1209.	2.2	10
27	The Environmental Footprint of Cities: Insights in the Steps forward to a New Methodological Approach. Procedia Environmental Sciences, 2017, 38, 635-642.	1.3	11
28	Hospital Building Sustainability: The Experience in using Qualitative Tools and Steps Towards the Life Cycle Approach. Procedia Environmental Sciences, 2017, 38, 445-451.	1.3	15
29	Life cycle assessment and life cycle costing of road infrastructure in residential neighbourhoods. International Journal of Life Cycle Assessment, 2017, 22, 938-951.	2.2	49
30	A design tool to assess the heating energy demand and the associated financial and environmental impact in neighbourhoods. Energy and Buildings, 2017, 152, 516-523.	3.1	21
31	The search for an appropriate end-of-life formula for the purpose of the European Commission Environmental Footprint initiative. International Journal of Life Cycle Assessment, 2017, 22, 1441-1458.	2.2	98
32	Environmental and Financial Life Cycle Assessment of â€˜Open-renovation-systemsâ€™: Methodology and Case Study. Energy Procedia, 2016, 96, 529-539.	1.8	4
33	Sustainability assessment of energy saving measures: A multi-criteria approach for residential buildings retrofittingâ€”A case study of the Spanish housing stock. Energy and Buildings, 2016, 116, 384-394.	3.1	148
34	Energy savings from housing: Ineffective renovation subsidies vs efficient demolition and reconstruction incentives. Energy Policy, 2015, 86, 697-704.	4.2	36
35	Comparing the European Commission product environmental footprint method with other environmental accounting methods. International Journal of Life Cycle Assessment, 2015, 20, 389-404.	2.2	34
36	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.	2.2	113

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37	Land use impact assessment in the construction sector: an analysis of LCIA models and case study application. International Journal of Life Cycle Assessment, 2014, 19, 1799-1809.	2.2	30
38	Allocation solutions for secondary material production and end of life recovery: Proposals for product policy initiatives. Resources, Conservation and Recycling, 2014, 88, 1-12.	5.3	96
39	The European Commission Organisation Environmental Footprint method: comparison with other methods, and rationales for key requirements. International Journal of Life Cycle Assessment, 2014, 19, 387-404.	2.2	45
40	Design for the Ecological Age: Rethinking the Role of Sustainability in Architectural Education. Journal of Architectural Education, 2013, 67, 175-185.	0.0	31
41	Identification of environmental and financial cost efficient heating and ventilation services for a typical residential building in Belgium. Journal of Cleaner Production, 2013, 57, 188-199.	4.6	28
42	MOVING TOWARDS A MORE SUSTAINABLE BELGIAN DWELLING STOCK: THE PASSIVE STANDARD AS THE NEXT STEP?. Journal of Green Building, 2013, 8, 112-132.	0.4	12
43	Environmental and economic optimisation of the floor on grade in residential buildings. International Journal of Life Cycle Assessment, 2012, 17, 813-827.	2.2	31
44	An Approach for Calculating the Environmental External Costs of the Belgian Building Sector. Journal of Industrial Ecology, 2012, 16, 710-721.	2.8	10
45	Using data-driven models to estimate the energy use of buildings based on a building stock model. IOP Conference Series: Earth and Environmental Science, 0, 588, 032006.	0.2	5