

Alexander Passer

List of Publications by Year in Descending Order

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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.

46
papers

1,085
citations

16
h-index

32
g-index

49
ext. papers

1,554
ext. citations

4
avg, IF

5.04
L-index

#	Paper	IF	Citations
46	A hierarchical reference-based know-why model for design support of sustainable building envelopes. <i>Automation in Construction</i> , 2022 , 139, 104276	9.6	0
45	How to conduct consistent environmental, economic, and social assessment during the building design process. A BIM-based Life Cycle Sustainability Assessment method. <i>Journal of Building Engineering</i> , 2021 , 45, 103516	5.2	7
44	Embodied greenhouse gas emissions reduction for structural elements in office buildings. <i>Journal of Physics: Conference Series</i> , 2021 , 2042, 012165	0.3	
43	Should biogenic carbon be analysed separately in the calculation of the GWP indicator?. <i>Journal of Physics: Conference Series</i> , 2021 , 2042, 012168	0.3	0
42	An LCA methodology for assessing the environmental impacts of building components before and after refurbishment. <i>Journal of Cleaner Production</i> , 2021 , 129527	10.3	0
41	Influence of technical and electrical equipment in life cycle assessments of buildings: case of a laboratory and research building. <i>International Journal of Life Cycle Assessment</i> , 2021 , 26, 852-863	4.6	3
40	The role of electricity mix and production efficiency improvements on greenhouse gas (GHG) emissions of building components and future refurbishment measures. <i>International Journal of Life Cycle Assessment</i> , 2021 , 26, 839-851	4.6	6
39	Life cycle assessment of roads: Exploring research trends and harmonization challenges. <i>Science of the Total Environment</i> , 2021 , 759, 143506	10.2	13
38	Challenges of a Healthy Built Environment: Air Pollution in Construction Industry. <i>Sustainability</i> , 2021 , 13, 10469	3.6	3
37	Environmental modelling of building stocks [An integrated review of life cycle-based assessment models to support EU policy making. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 151, 111550	16.2	6
36	Embodied energy and GHG emissions of residential multi-storey timber buildings by height [A case with structural connectors and mechanical fasteners. <i>Energy and Buildings</i> , 2021 , 252, 111387	7	1
35	Implications of using systematic decomposition structures to organize building LCA information: A comparative analysis of national standards and guidelines- IEA EBC ANNEX 72. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 022008	0.3	2
34	Assessment of the environmental impact of timber and its potential to mitigate embodied GHG emissions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 022068	0.3	2
33	Embodied GHG emissions of buildings [Critical reflection of benchmark comparison and in-depth analysis of drivers. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 032048	0.3	1
32	Austrian GHG emission targets for new buildings and major renovations: an exploratory study. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 032052	0.3	1
31	Sustainable built environment: transition towards a net zero carbon built environment. <i>International Journal of Life Cycle Assessment</i> , 2020 , 25, 1160-1167	4.6	7
30	Biogenic carbon in buildings: a critical overview of LCA methods. <i>Buildings and Cities</i> , 2020 , 1, 504-524	3.3	34

29	Carbon budgets for buildings: harmonising temporal, spatial and sectoral dimensions. <i>Buildings and Cities</i> , 2020 , 1, 429-452	3.3	18
28	Embodied GHG emissions of buildings – The hidden challenge for effective climate change mitigation. <i>Applied Energy</i> , 2020 , 258, 114107	10.7	187
27	BIM and LCA Integration: A Systematic Literature Review. <i>Sustainability</i> , 2020 , 12, 5534	3.6	37
26	Implementing Life Cycle Sustainability Assessment during design stages in Building Information Modelling: From systematic literature review to a methodological approach. <i>Building and Environment</i> , 2020 , 182, 107164	6.5	37
25	The challenge of integrating Life Cycle Assessment in the building design process – a systematic literature review of BIM-LCA workflows. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 032024	0.3	4
24	(Sprayed) concrete production in life cycle assessments: a systematic literature review. <i>International Journal of Life Cycle Assessment</i> , 2020 , 25, 188-207	4.6	5
23	Environmental benchmarks for buildings: needs, challenges and solutions – 1st LCA forum, Swiss Federal Institute of Technology, Zürich, 18 June 2019. <i>International Journal of Life Cycle Assessment</i> , 2019 , 24, 2272-2280	4.6	17
22	Functional and environmental performance optimization of Portland cement-based materials by combined mineral fillers. <i>Cement and Concrete Research</i> , 2019 , 122, 157-178	10.3	9
21	Investigating transparency regarding ecoinvent users – system model choices. <i>International Journal of Life Cycle Assessment</i> , 2019 , 24, 1-5	4.6	16
20	IEA EBC Annex 72 - Assessing life cycle related environmental impacts caused by buildings – targets and tasks. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 323, 012042	0.3	4
19	A cross-platform modular framework for building Life Cycle Assessment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 323, 012103	0.3	2
18	Austrian Universities and the Sustainable Development Goals. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 323, 012156	0.3	1
17	Testing of PEF method to assess the environmental footprint of buildings – results of PEF4Buildings project. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 297, 012033	0.3	3
16	Implementation of Sustainable Development Goals in construction industry - a systemic consideration of synergies and trade-offs. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 323, 012177	0.3	7
15	LCA and BIM: Visualization of environmental potentials in building construction at early design stages. <i>Building and Environment</i> , 2018 , 140, 153-161	6.5	125
14	LCA and BIM: Integrated Assessment and Visualization of Building Elements – Embodied Impacts for Design Guidance in Early Stages. <i>Procedia CIRP</i> , 2018 , 69, 218-223	1.8	28
13	A Preliminary Systematic Investigation onto Sprayed Concrete’s Environmental Performance. <i>Procedia CIRP</i> , 2018 , 69, 212-217	1.8	6
12	Strategies to Improve the Energy Performance of Buildings: A Review of Their Life Cycle Impact. <i>Buildings</i> , 2018 , 8, 105	3.2	32

11	Visualizing Interdependencies among Sustainability Criteria to Support Multicriteria Decision-making Processes in Building Design. <i>Procedia CIRP</i> , 2018 , 69, 200-205	1.8	8
10	Buildings environmental impacts' sensitivity related to LCA modelling choices of construction materials. <i>Journal of Cleaner Production</i> , 2017 , 156, 805-816	10.3	103
9	The impact of future scenarios on building refurbishment strategies towards plus energy buildings. <i>Energy and Buildings</i> , 2016 , 124, 153-163	7	70
8	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	7	50
7	Environmental product declarations entering the building sector: critical reflections based on 5 to 10 years experience in different European countries. <i>International Journal of Life Cycle Assessment</i> , 2015 , 20, 1199-1212	4.6	88
6	Sustainable buildings, construction products and technologies: linking research and construction practice. <i>International Journal of Life Cycle Assessment</i> , 2015 , 20, 1-8	4.6	20
5	Assessment of the environmental performance of buildings: A critical evaluation of the influence of technical building equipment on residential buildings. <i>International Journal of Life Cycle Assessment</i> , 2012 , 17, 1116-1130	4.6	100
4	Stahl im Hochbau – Ein nachhaltiger Werkstoff?. <i>Stahlbau</i> , 2007 , 76, 241-249	0.6	1
3	Comparison of the greenhouse gas emissions of a high-rise residential building assessed with different national LCA approaches – IEA EBC Annex 72. <i>IOP Conference Series: Earth and Environmental Science</i> , 588 , 022029	0.3	7
2	Survey results on acceptance and use of Life Cycle Assessment among designers in world regions: IEA EBC Annex 72. <i>IOP Conference Series: Earth and Environmental Science</i> , 588 , 032023	0.3	7
1	Challenges in the achievement of a Net Zero Carbon Built Environment – A systemic approach to support the decision-aiding process in the design stage of buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , 588 , 032034	0.3	5