

Alexander Passer

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,096
citations

361296

20
h-index

233338

45
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49
all docs

49
docs citations

49
times ranked

1303
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Embodied GHG emissions of buildings – The hidden challenge for effective climate change mitigation. <i>Applied Energy</i> , 2020, 258, 114107. | 5.1 | 457 |
| 2 | LCA and BIM: Visualization of environmental potentials in building construction at early design stages. <i>Building and Environment</i> , 2018, 140, 153-161. | 3.0 | 208 |
| 3 | Buildings environmental impacts' sensitivity related to LCA modelling choices of construction materials. <i>Journal of Cleaner Production</i> , 2017, 156, 805-816. | 4.6 | 149 |
| 4 | 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. | 2.2 | 132 |
| 5 | 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. | 2.2 | 113 |
| 6 | Biogenic carbon in buildings: a critical overview of LCA methods. <i>Buildings and Cities</i> , 2020, 1, 504-524. | 1.1 | 110 |
| 7 | BIM and LCA Integration: A Systematic Literature Review. <i>Sustainability</i> , 2020, 12, 5534. | 1.6 | 93 |
| 8 | The impact of future scenarios on building refurbishment strategies towards plus energy buildings. <i>Energy and Buildings</i> , 2016, 124, 153-163. | 3.1 | 90 |
| 9 | 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. | 3.0 | 79 |
| 10 | 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. | 3.1 | 62 |
| 11 | Carbon budgets for buildings: harmonising temporal, spatial and sectoral dimensions. <i>Buildings and Cities</i> , 2020, 1, 429-452. | 1.1 | 50 |
| 12 | Strategies to Improve the Energy Performance of Buildings: A Review of Their Life Cycle Impact. <i>Buildings</i> , 2018, 8, 105. | 1.4 | 49 |
| 13 | 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. | 8.2 | 48 |
| 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. | 1.0 | 47 |
| 15 | Environmental benchmarks for buildings: needs, challenges and solutions – 71st LCA forum, Swiss Federal Institute of Technology, Zürich, 18 June 2019. <i>International Journal of Life Cycle Assessment</i> , 2019, 24, 2272-2280. | 2.2 | 38 |
| 16 | Life cycle assessment of roads: Exploring research trends and harmonization challenges. <i>Science of the Total Environment</i> , 2021, 759, 143506. | 3.9 | 34 |
| 17 | Sustainable buildings, construction products and technologies: linking research and construction practice. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 1-8. | 2.2 | 24 |
| 18 | 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> , 2022, 45, 103516. | 1.6 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Challenges of a Healthy Built Environment: Air Pollution in Construction Industry. Sustainability, 2021, 13, 10469. | 1.6 | 22 |
| 20 | Influence of technical and electrical equipment in life cycle assessments of buildings: case of a laboratory and research building. International Journal of Life Cycle Assessment, 2021, 26, 852-863. | 2.2 | 21 |
| 21 | Investigating transparency regarding ecoinvent users'™ system model choices. International Journal of Life Cycle Assessment, 2019, 24, 1-5. | 2.2 | 20 |
| 22 | Functional and environmental performance optimization of Portland cement-based materials by combined mineral fillers. Cement and Concrete Research, 2019, 122, 157-178. | 4.6 | 20 |
| 23 | An LCA methodology for assessing the environmental impacts of building components before and after refurbishment. Journal of Cleaner Production, 2021, 327, 129527. | 4.6 | 19 |
| 24 | The role of electricity mix and production efficiency improvements on greenhouse gas (GHG) emissions of building components and future refurbishment measures. International Journal of Life Cycle Assessment, 2021, 26, 839-851. | 2.2 | 15 |
| 25 | Embodied energy and GHG emissions of residential multi-storey timber buildings by height – A case with structural connectors and mechanical fasteners. Energy and Buildings, 2021, 252, 111387. | 3.1 | 15 |
| 26 | Implementation of Sustainable Development Goals in construction industry - a systemic consideration of synergies and trade-offs. IOP Conference Series: Earth and Environmental Science, 2019, 323, 012177. | 0.2 | 12 |
| 27 | Embodied GHG emissions of buildings – Critical reflection of benchmark comparison and in-depth analysis of drivers. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032048. | 0.2 | 12 |
| 28 | Sustainable built environment: transition towards a net zero carbon built environment. International Journal of Life Cycle Assessment, 2020, 25, 1160-1167. | 2.2 | 12 |
| 29 | Visualizing Interdependencies among Sustainability Criteria to Support Multicriteria Decision-making Processes in Building Design. Procedia CIRP, 2018, 69, 200-205. | 1.0 | 11 |
| 30 | Strategies to improve building environmental and economic performance: an exploratory study on 37 residential building scenarios. International Journal of Life Cycle Assessment, 2023, 28, 828-842. | 2.2 | 11 |
| 31 | (Sprayed) concrete production in life cycle assessments: a systematic literature review. International Journal of Life Cycle Assessment, 2020, 25, 188-207. | 2.2 | 10 |
| 32 | A hierarchical reference-based know-why model for design support of sustainable building envelopes. Automation in Construction, 2022, 139, 104276. | 4.8 | 10 |
| 33 | Comparison of the greenhouse gas emissions of a high-rise residential building assessed with different national LCA approaches – IEA EBC Annex 72. IOP Conference Series: Earth and Environmental Science, 0, 588, 022029. | 0.2 | 9 |
| 34 | Survey results on acceptance and use of Life Cycle Assessment among designers in world regions: IEA EBC Annex 72. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032023. | 0.2 | 9 |
| 35 | A Preliminary Systematic Investigation onto Sprayed Concrete's Environmental Performance. Procedia CIRP, 2018, 69, 212-217. | 1.0 | 8 |
| 36 | The challenge of integrating Life Cycle Assessment in the building design process – a systematic literature review of BIM-LCA workflows. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032024. | 0.2 | 8 |

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|----|---|-----|-----------|
| 37 | Testing of PEF method to assess the environmental footprint of buildings – results of PEF4Buildings project. IOP Conference Series: Earth and Environmental Science, 2019, 297, 012033. | 0.2 | 7 |
| 38 | 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. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032034. | 0.2 | 7 |
| 39 | IEA EBC Annex 72 - Assessing life cycle related environmental impacts caused by buildings – targets and tasks. IOP Conference Series: Earth and Environmental Science, 2019, 323, 012042. | 0.2 | 6 |
| 40 | Implications of using systematic decomposition structures to organize building LCA information: A comparative analysis of national standards and guidelines- IEA EBC ANNEX 72. IOP Conference Series: Earth and Environmental Science, 2020, 588, 022008. | 0.2 | 5 |
| 41 | Austrian Universities and the Sustainable Development Goals. IOP Conference Series: Earth and Environmental Science, 2019, 323, 012156. | 0.2 | 4 |
| 42 | Assessment of the environmental impact of timber and its potential to mitigate embodied GHG emissions. IOP Conference Series: Earth and Environmental Science, 2020, 588, 022068. | 0.2 | 4 |
| 43 | Austrian GHG emission targets for new buildings and major renovations: an exploratory study. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032052. | 0.2 | 4 |
| 44 | A cross-platform modular framework for building Life Cycle Assessment. IOP Conference Series: Earth and Environmental Science, 2019, 323, 012103. | 0.2 | 3 |
| 45 | Transition Towards a Net Zero Carbon Built Environment. International Journal of Life Cycle Assessment, 2019, 24, 362-363. | 2.2 | 2 |
| 46 | Should biogenic carbon be analysed separately in the calculation of the GWP indicator?. Journal of Physics: Conference Series, 2021, 2042, 012168. | 0.3 | 1 |
| 47 | Embodied greenhouse gas emissions reduction for structural elements in office buildings. Journal of Physics: Conference Series, 2021, 2042, 012165. | 0.3 | 0 |
| 48 | INTERNAL REPORTING ON PROCESS OPTIMIZATION MEASURES: COMBINATION OF ECONOMIC AND ENVIRONMENTAL ASPECTS. Facta Universitatis Series: Economics and Organization, 0, , 421. | 0.2 | 0 |