

Assed N Haddad

List of Publications by Citations

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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.

113
papers

1,152
citations

17
h-index

30
g-index

146
ext. papers

1,506
ext. citations

3.5
avg, IF

5.34
L-index

#	Paper	IF	Citations
113	Integration of BIM and LCA: Evaluating the environmental impacts of building materials at an early stage of designing a typical office building. <i>Journal of Building Engineering</i> , 2017 , 14, 115-126	5.2	110
112	Integrated optimization with building information modeling and life cycle assessment for generating energy efficient buildings. <i>Applied Energy</i> , 2019 , 250, 1366-1382	10.7	60
111	Enhanced thermal energy supply via central solar heating plants with seasonal storage: A multi-objective optimization approach. <i>Applied Energy</i> , 2016 , 181, 549-561	10.7	60
110	Assessing risk in sustainable construction using the Functional Resonance Analysis Method (FRAM). <i>Cognition, Technology and Work</i> , 2015 , 17, 559-573	2.9	57
109	Evaluation of the environmental impact of experimental cubicles using Life Cycle Assessment: A highlight on the manufacturing phase. <i>Applied Energy</i> , 2012 , 92, 534-544	10.7	54
108	Multi-objective optimization of thermal modelled cubicles considering the total cost and life cycle environmental impact. <i>Energy and Buildings</i> , 2015 , 88, 335-346	7	49
107	Material flow analysis of the residential building stock at the city of Rio de Janeiro. <i>Journal of Cleaner Production</i> , 2017 , 149, 1249-1267	10.3	43
106	Multi-objective optimisation of bio-based thermal insulation materials in building envelopes considering condensation risk. <i>Applied Energy</i> , 2018 , 224, 602-614	10.7	42
105	Building information modelling-based framework to contrast conventional and modular construction methods through selected sustainability factors. <i>Journal of Cleaner Production</i> , 2019 , 228, 1264-1281	10.3	40
104	Systematic approach for the life cycle multi-objective optimization of buildings combining objective reduction and surrogate modeling. <i>Energy and Buildings</i> , 2016 , 130, 506-518	7	35
103	Life Cycle Impact Assessment of masonry system as inner walls: A case study in Brazil. <i>Construction and Building Materials</i> , 2014 , 70, 141-147	6.7	30
102	Sustainable material choice for construction projects: A Life Cycle Sustainability Assessment framework based on BIM and Fuzzy-AHP. <i>Building and Environment</i> , 2021 , 196, 107805	6.5	30
101	Smart and Sustainable Cities: The Main Guidelines of City Statute for Increasing the Intelligence of Brazilian Cities. <i>Sustainability</i> , 2020 , 12, 1025	3.6	27
100	Life cycle costing as a bottom line for the life cycle sustainability assessment in the solar energy sector: A review. <i>Solar Energy</i> , 2019 , 192, 238-262	6.8	26
99	Image-Based Crack Detection Methods: A Review. <i>Infrastructures</i> , 2021 , 6, 115	2.6	24
98	Smart Buildings: Systems and Drivers. <i>Buildings</i> , 2020 , 10, 153	3.2	23
97	Integrating Parametric Analysis with Building Information Modeling to Improve Energy Performance of Construction Projects. <i>Energies</i> , 2019 , 12, 1515	3.1	22

96	Life cycle assessment methodology integrated with BIM as a decision-making tool at early-stages of building design. <i>International Journal of Construction Management</i> , 2019 , 1-15	1.9	17
95	A framework to estimate heat energy loss in building operation. <i>Journal of Cleaner Production</i> , 2019 , 235, 789-800	10.3	17
94	A Framework to Evaluate Urban Flood Resilience of Design Alternatives for Flood Defence Considering Future Adverse Scenarios. <i>Water (Switzerland)</i> , 2019 , 11, 1485	3	16
93	Multiple Dimensions of Smart Cities Infrastructure: A Review. <i>Buildings</i> , 2021 , 11, 73	3.2	16
92	Assessing the Sustainability of Existing Buildings Using the Analytic Hierarchy Process. <i>American Journal of Civil Engineering</i> , 2013 , 1, 24	1.8	14
91	FRAM AHP approach to analyse offshore oil well drilling and construction focused on human factors. <i>Cognition, Technology and Work</i> , 2020 , 22, 653-665	2.9	14
90	The urban river restoration index (URRIX) - A supportive tool to assess fluvial environment improvement in urban flood control projects. <i>Journal of Cleaner Production</i> , 2019 , 239, 118058	10.3	12
89	Sustainable Zoning, Land-Use Allocation and Facility Location Optimisation in Smart Cities. <i>Energies</i> , 2019 , 12, 1318	3.1	12
88	Evaluation of 4D BIM tools applicability in construction planning efficiency. <i>International Journal of Construction Management</i> , 2020 , 1-14	1.9	12
87	A Resilience Engineering Approach for Sustainable Safety in Green Construction. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2017 , 5, 480-495	1.9	12
86	Case Study: LCA Methodology Applied to Materials Management in a Brazilian Residential Construction Site. <i>Journal of Engineering (United States)</i> , 2016 , 2016, 1-9	1.5	12
85	Human factors applied to alarm panel modernization of nuclear control room. <i>Journal of Loss Prevention in the Process Industries</i> , 2013 , 26, 1308-1320	3.5	10
84	Assessing the Retention Capacity of an Experimental Green Roof Prototype. <i>Water (Switzerland)</i> , 2020 , 12, 90	3	9
83	An Inquiry into the Life Cycle of Systems of Inner Walls: Comparison of Masonry and Drywall. <i>Sustainability</i> , 2015 , 7, 7904-7925	3.6	9
82	Analysing human factors and non-technical skills in offshore drilling operations using FRAM (functional resonance analysis method). <i>Cognition, Technology and Work</i> , 2021 , 23, 553-566	2.9	9
81	Evaluation of Carbon Nanotube Incorporation in Cementitious Composite Materials. <i>Materials</i> , 2019 , 12,	3.5	8
80	Allocation of performance shaping factors in the risk assessment of an offshore installation. <i>Journal of Loss Prevention in the Process Industries</i> , 2020 , 64, 104085	3.5	8
79	The Use of Unmanned Aerial Vehicles for Dynamic Site Layout Planning in Large-Scale Construction Projects. <i>Buildings</i> , 2021 , 11, 602	3.2	8

78	Smoldering fire propagation in corn grain: an experimental study. <i>Results in Engineering</i> , 2020 , 7, 1001513,3	7
77	Life Cycle Assessment: A Comparison of Ceramic Brick Inventories to Subsidize the Development of Databases in Brazil. <i>Applied Mechanics and Materials</i> , 2013 , 431, 370-377	0.3 7
76	Building Sustainability Assessment throughout Multicriteria Decision Making. <i>Journal of Construction Engineering</i> , 2013 , 2013, 1-9	7
75	Sustainability Assessment of a Low-income Building: A BIM-LCSA-FAHP-based Analysis. <i>Buildings</i> , 2022 , 12, 181	3.2 7
74	A novel mathematical optimisation model for the scheduling of activities in modular construction factories. <i>Construction Management and Economics</i> , 2020 , 38, 534-551	3 7
73	Oil Spill Simulation and Analysis of Its Behavior Under the Effect of Weathering and Chemical Dispersant: a Case Study of the Bacia de Campos Brazil. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6 7
72	Surface Air Movement: An Important Contributor to Ventilation of Isolated Subsurface Structures?. <i>Infrastructures</i> , 2019 , 4, 23	2.6 6
71	BIM and BEM Methodologies Integration in Energy-Efficient Buildings Using Experimental Design. <i>Buildings</i> , 2021 , 11, 491	3.2 6
70	Risk minimization in isolated subsurface structures through ventilation induced by natural forces. <i>Safety Science</i> , 2018 , 102, 125-133	5.8 5
69	Ventilation of an Isolated Subsurface Structure Induced by Natural Forces. <i>Infrastructures</i> , 2019 , 4, 33	2.6 5
68	Causes of Construction Projects Cost Overrun in Brazil 2018 , 9,	5
67	Urban Development Index (UDI): A Comparison between the City of Rio de Janeiro and Four Other Global Cities. <i>Sustainability</i> , 2020 , 12, 823	3.6 5
66	Life cycle assessment of building construction materials: case study for a housing complex. <i>Revista De La Construccion</i> , 2016 , 15, 69-77	1.2 5
65	Economic Optimization of the Energy Supply for a Logistics Center Considering Variable-Rate Energy Tariffs and Integration of Photovoltaics. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4711	2.6 5
64	Sustainable Construction Achieved Through Life Cycle Assessment: Methodology, Limitations and the Way Forward 2020 , 576-583	5
63	Framework for a Systematic Parametric Analysis to Maximize Energy Output of PV Modules Using an Experimental Design. <i>Sustainability</i> , 2019 , 11, 2992	3.6 4
62	A Time-Integrated Index for Flood Risk to Resistance Capacity. <i>Water (Switzerland)</i> , 2019 , 11, 1321	3 4
61	Life Cycle Inventory for Lead Azide Manufacture. <i>Journal of Aerospace Technology and Management</i> , 2014 , 6, 53-60	0.7 4

60	Use of Methanol as a Coolant During Machining of Aluminum in a Shipbuilding Environment: A Failure to Assess and Manage Risk. <i>Advanced Materials Research</i> , 2014 , 955-959, 1061-1064	0.5	4
59	Proposal for Implementation of Green Roof Project Using the Wetland Technique. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2020 , 8, 268-280	1.9	4
58	Sustainability Indicators to Assess Infrastructure Projects: Sector Disclosure to Interlock with the Global Reporting Initiative. <i>Engineering Journal</i> , 2020 , 24, 43-61	1.8	4
57	Natural Ventilation in Isolated Subsurface Structures in the Infrastructure: A Review. <i>Environment and Natural Resources Research</i> , 2019 , 9, 61	1.1	4
56	Risk identification techniques knowledge and application in the Brazilian construction. <i>Journal of Civil Engineering and Construction Technology</i> , 2011 , 2,	0.3	4
55	Optimising Window Design on Residential Building Facades by Considering Heat Transfer and Natural Lighting in Nontropical Regions of Australia. <i>Buildings</i> , 2020 , 10, 206	3.2	4
54	Application of Fuzzy-TOPSIS Method in Supporting Supplier Selection with Focus on HSE Criteria: A Case Study in the Oil and Gas Industry. <i>Infrastructures</i> , 2021 , 6, 105	2.6	4
53	Study of the Technical Capability of Sugarcane Bagasse Ash in Concrete Production. <i>Materials Science Forum</i> , 2016 , 866, 53-57	0.4	3
52	Reducing the Life Cycle Environmental Impact of Buildings Following a Simulation-Optimization Approach 2017 , 823-839		3
51	Use of Cement Hydration Stabilizer Admixture at Ready Mix Concrete to Avoid Material Waste. <i>Advanced Materials Research</i> , 2013 , 818, 24-29	0.5	3
50	Sustainable Urban Development in Slum Areas in the City of Rio de Janeiro Based on LEED-ND Indicators. <i>Buildings</i> , 2020 , 10, 116	3.2	3
49	A regression-based framework to examine thermal loads of buildings. <i>Journal of Cleaner Production</i> , 2021 , 292, 126021	10.3	3
48	Enhancing the passive design of buildings: A mixed integer non-linear programming approach for the selection of building materials and construction building systems. <i>Energy Reports</i> , 2021 ,	4.6	3
47	Payment for environmental services for flood control analysis and method of economic viability. <i>Science of the Total Environment</i> , 2021 , 777, 145907	10.2	3
46	Welder Exposure to NO and NO2 during Argon-Shielded Arc Welding on Aluminum Alloys. <i>Toxicology and Environmental Health Sciences</i> , 2018 , 10, 297-306	1.9	3
45	The Main Impacts of Infrastructure Works on Public Roads. <i>Infrastructures</i> , 2021 , 6, 118	2.6	3
44	Modelling the work-as-done in the building maintenance using a layered FRAM: A case study on HVAC maintenance. <i>Journal of Cleaner Production</i> , 2021 , 320, 128895	10.3	3
43	Methodology to reduce cooling energy consumption by incorporating PCM envelopes: A case study of a dwelling in Chile. <i>Building and Environment</i> , 2021 , 206, 108373	6.5	3

42	Comparison of the environmental performance of ceramic brick and concrete blocks in the vertical seals' subsystem in residential buildings using life cycle assessment. <i>Cleaner Engineering and Technology</i> , 2021 , 5, 100243	2.7	3
41	Visualizing Air Motion Involving Isolated Subsurface Structures: A Critical Tool for Understanding Ventilation Induced by Natural Forces. <i>Infrastructures</i> , 2019 , 4, 59	2.6	2
40	Solvent Evaporation in an Isolated Subsurface Structure: An Unrecognized and Underappreciated Risk. <i>Infrastructures</i> , 2019 , 4, 47	2.6	2
39	Risk Assessment for Hexamine Nitration into RDX. <i>Journal of Aerospace Technology and Management</i> , 2014 , 6, 373-388	0.7	2
38	Hazard Matrix Application in Health, Safety and Environmental Management Risk Evaluation 2012 ,		2
37	Quality Indicators for Life Cycle Inventory: Real Cases Exploratory Application. <i>Applied Mechanics and Materials</i> , 2013 , 431, 350-355	0.3	2
36	Analysis of the Behavior of Carbon Nanotubes on Cementitious Composites. <i>ISRN Nanomaterials</i> , 2013 , 2013, 1-17		2
35	Daylight Assessment and Energy Consumption Analysis at an Early Stage of Designing Residential Buildings Integrating BIM and LCA 2019 , 79-98		2
34	Deformation and permeability of recycled aggregate concrete - A comprehensive review. <i>Journal of Building Engineering</i> , 2021 , 44, 103393	5.2	2
33	Quantitative risk analysis applied to refrigeration industry using computational modeling. <i>Results in Engineering</i> , 2021 , 9, 100202	3.3	2
32	Systematic combination of insulation biomaterials to enhance energy and environmental efficiency in buildings. <i>Construction and Building Materials</i> , 2021 , 267, 120973	6.7	2
31	Adapting the Olgay bioclimatic chart to assess local thermal comfort levels in urban regions. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	2
30	A mathematical optimisation model for the design and detailing of reinforced concrete beams. <i>Engineering Structures</i> , 2021 , 245, 112861	4.7	2
29	Assessing the usability of blockchain for sustainability: Extending key themes to the construction industry. <i>Journal of Cleaner Production</i> , 2022 , 343, 131047	10.3	2
28	Health, safety and environmental management risk evaluation strategy: Hazard Matrix application case studies 2008 ,		1
27	An application of the relevance matrix methodology in occupational risk evaluation 2007 ,		1
26	Targeting Energy Efficiency through Air Conditioning Operational Modes for Residential Buildings in Tropical Climates, Assisted by Solar Energy and Thermal Energy Storage. Case Study Brazil. <i>Sustainability</i> , 2021 , 13, 12831	3.6	1
25	Assessing rainwater quality treated via a green roof system. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	1

24	Information Technologies in Complex Socio-Technical Systems Based on Functional Variability: A Case Study on HVAC Maintenance Work Orders. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1049	2.6	1
23	Framework for Assessing Urban Energy Sustainability. <i>Sustainability</i> , 2021 , 13, 9306	3.6	1
22	Ozone: a critical contaminant produced during gas metal arc welding (GMAW) on aluminum alloys Resolving the short- versus long-duration sampling discrepancy. <i>Air Quality, Atmosphere and Health</i> , 2019 , 12, 97-106	5.6	0
21	Self-consumption possibilities by rooftop PV and building retrofit requirements for a regional building stock: The case of Catalonia. <i>Solar Energy</i> , 2022 , 238, 150-161	6.8	0
20	An integrated approach of building information modelling and life cycle assessment (BIM-LCA) for gas and solar water heating systems. <i>International Journal of Construction Management</i> , 1-17	1.9	0
19	An improved ventilation system for settling stage of a wastewater treatment plant: a computational simulation analysis. <i>International Journal of Construction Management</i> , 2020 , 1-20	1.9	
18	Risk Assessment Study for a Floating, Production, Storage and Offloading Vessel (FPSO) in Deep Waters. <i>Applied Mechanics and Materials</i> , 2014 , 700, 495-500	0.3	
17	Variation of Concrete Strength with the Insertion of Carbon Nanotubes. <i>Advanced Materials Research</i> , 2013 , 818, 124-131	0.5	
16	Pathological Manifestations of Neoprene Support Devices in Infrastructure. <i>RILEM Bookseries</i> , 2022 , 229-243	0.5	
15	Comparative Study of Consumption and Life-Cycle Impacts of Water Heating Systems for Residential Multi-familiar Buildings in Rio de Janeiro, Brazil. <i>Building Pathology and Rehabilitation</i> , 2021 , 137-154	0.2	
14	Functional Resonance Analysis Method and Human Performance Factors Identifying Critical Functions in Chemical Process Safety. <i>IEEE Access</i> , 2021 , 9, 168368-168382	3.5	
13	Gestã de contratos na construã civil. <i>Vãtices</i> , 2002 , 4, 17-23	0	
12	Safety assessment of Ammonium Nitrate Fuel Oil (ANFO) manufactory 2018 , 35-39		
11	Applicability of Casa Azul Certification as Sustainability Tool Available in Brazil [Case Study: Condo Neo Niter] 2019 , 149-164		
10	Sustainable Assessment of Public Works through a Multi-Criteria Framework. <i>Sustainability</i> , 2020 , 12, 6896	3.6	
9	Quantifying Air Movement Induced by Natural Forces in an Isolated Structure in the Subsurface Infrastructure. <i>Infrastructures</i> , 2021 , 6, 3	2.6	
8	FRAM-AHP: A Resilience Engineering Approach for Sustainable Prevention. <i>Studies in Systems, Decision and Control</i> , 2020 , 123-131	0.8	
7	Analysis of the management process in the housing sector: the COHAB/Acre case. <i>Vãtices</i> , 2010 , 12, 87-101	0	

6 Discussion of a mathematical model to simulate a fire ball from gaseous explosion (BLEVE) **2011**, 1294-1298

5 Development of a Method to Study Evaporation of a Volatile Solvent in an Isolated Subsurface Structure: A Practical Exercise in Risk Minimization. *Infrastructures*, **2020**, 5, 68 2.6

4 Ventilation Induced in an Isolated Subsurface Structure by Natural Forces: Method Development and Application. *Infrastructures*, **2019**, 4, 68 2.6

3 Case Study: Human Factors Analysis of FPSO Operations Activities in Brazil **2019**,

2 Rainwater Harvesting: Recent Developments and Contemporary Measures **2021**, 17-38

1 A Proposed Methodology of Life Cycle Assessment for Hot Water Building Systems. *RILEM Bookseries*, **2021**, 203-215 0.5