

# Assed N Haddad

## 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.

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	Pathological Manifestations of Neoprene Support Devices in Infrastructure. <i>RILEM Bookseries</i> , <b>2022</b> , 229-243	0.5	
112	Sustainability Assessment of a Low-income Building: A BIM-LCSA-FAHP-based Analysis. <i>Buildings</i> , <b>2022</b> , 12, 181	3.2	7
111	Assessing the usability of blockchain for sustainability: Extending key themes to the construction industry. <i>Journal of Cleaner Production</i> , <b>2022</b> , 343, 131047	10.3	2
110	Self-consumption possibilities by rooftop PV and building retrofit requirements for a regional building stock: The case of Catalonia. <i>Solar Energy</i> , <b>2022</b> , 238, 150-161	6.8	0
109	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> , <b>2021</b> , 137-154	0.2	
108	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> , <b>2021</b> , 13, 12831	3.6	1
107	The Use of Unmanned Aerial Vehicles for Dynamic Site Layout Planning in Large-Scale Construction Projects. <i>Buildings</i> , <b>2021</b> , 11, 602	3.2	8
106	Functional Resonance Analysis Method and Human Performance Factors Identifying Critical Functions in Chemical Process Safety. <i>IEEE Access</i> , <b>2021</b> , 9, 168368-168382	3.5	
105	BIM and BEM Methodologies Integration in Energy-Efficient Buildings Using Experimental Design. <i>Buildings</i> , <b>2021</b> , 11, 491	3.2	6
104	Deformation and permeability of recycled aggregate concrete - A comprehensive review. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 103393	5.2	2
103	Quantifying Air Movement Induced by Natural Forces in an Isolated Structure in the Subsurface Infrastructure. <i>Infrastructures</i> , <b>2021</b> , 6, 3	2.6	
102	Quantitative risk analysis applied to refrigeration industry using computational modeling. <i>Results in Engineering</i> , <b>2021</b> , 9, 100202	3.3	2
101	A regression-based framework to examine thermal loads of buildings. <i>Journal of Cleaner Production</i> , <b>2021</b> , 292, 126021	10.3	3
100	Sustainable material choice for construction projects: A Life Cycle Sustainability Assessment framework based on BIM and Fuzzy-AHP. <i>Building and Environment</i> , <b>2021</b> , 196, 107805	6.5	30
99	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> , <b>2021</b> ,	4.6	3
98	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> , <b>2021</b> , 6, 105	2.6	4
97	Payment for environmental services for flood control analysis and method of economic viability. <i>Science of the Total Environment</i> , <b>2021</b> , 777, 145907	10.2	3

96	Analysing human factors and non-technical skills in offshore drilling operations using FRAM (functional resonance analysis method). <i>Cognition, Technology and Work</i> , <b>2021</b> , 23, 553-566	2.9	9
95	Systematic combination of insulation biomaterials to enhance energy and environmental efficiency in buildings. <i>Construction and Building Materials</i> , <b>2021</b> , 267, 120973	6.7	2
94	Rainwater Harvesting: Recent Developments and Contemporary Measures <b>2021</b> , 17-38		
93	Information Technologies in Complex Socio-Technical Systems Based on Functional Variability: A Case Study on HVAC Maintenance Work Orders. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1049	2.6	1
92	Multiple Dimensions of Smart Cities Infrastructure: A Review. <i>Buildings</i> , <b>2021</b> , 11, 73	3.2	16
91	Framework for Assessing Urban Energy Sustainability. <i>Sustainability</i> , <b>2021</b> , 13, 9306	3.6	1
90	Image-Based Crack Detection Methods: A Review. <i>Infrastructures</i> , <b>2021</b> , 6, 115	2.6	24
89	The Main Impacts of Infrastructure Works on Public Roads. <i>Infrastructures</i> , <b>2021</b> , 6, 118	2.6	3
88	A mathematical optimisation model for the design and detailing of reinforced concrete beams. <i>Engineering Structures</i> , <b>2021</b> , 245, 112861	4.7	2
87	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> , <b>2021</b> , 320, 128895	10.3	3
86	Methodology to reduce cooling energy consumption by incorporating PCM envelopes: A case study of a dwelling in Chile. <i>Building and Environment</i> , <b>2021</b> , 206, 108373	6.5	3
85	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> , <b>2021</b> , 5, 100243	2.7	3
84	A Proposed Methodology of Life Cycle Assessment for Hot Water Building Systems. <i>RILEM Bookseries</i> , <b>2021</b> , 203-215	0.5	
83	An improved ventilation system for settling stage of a wastewater treatment plant: a computational simulation analysis. <i>International Journal of Construction Management</i> , <b>2020</b> , 1-20	1.9	
82	Evaluation of 4D BIM tools applicability in construction planning efficiency. <i>International Journal of Construction Management</i> , <b>2020</b> , 1-14	1.9	12
81	Allocation of performance shaping factors in the risk assessment of an offshore installation. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2020</b> , 64, 104085	3.5	8
80	Assessing the Retention Capacity of an Experimental Green Roof Prototype. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 90	3	9
79	Smoldering fire propagation in corn grain: an experimental study. <i>Results in Engineering</i> , <b>2020</b> , 7, 1001513	3.3	7

78	Proposal for Implementation of Green Roof Project Using the Wetland Technique. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , <b>2020</b> , 8, 268-280	1.9	4
77	Urban Development Index (UDI): A Comparison between the City of Rio de Janeiro and Four Other Global Cities. <i>Sustainability</i> , <b>2020</b> , 12, 823	3.6	5
76	Smart and Sustainable Cities: The Main Guidelines of City Statute for Increasing the Intelligence of Brazilian Cities. <i>Sustainability</i> , <b>2020</b> , 12, 1025	3.6	27
75	Sustainability Indicators to Assess Infrastructure Projects: Sector Disclosure to Interlock with the Global Reporting Initiative. <i>Engineering Journal</i> , <b>2020</b> , 24, 43-61	1.8	4
74	Sustainable Assessment of Public Works through a Multi-Criteria Framework. <i>Sustainability</i> , <b>2020</b> , 12, 6896	3.6	
73	FRAM-AHP: A Resilience Engineering Approach for Sustainable Prevention. <i>Studies in Systems, Decision and Control</i> , <b>2020</b> , 123-131	0.8	
72	A novel mathematical optimisation model for the scheduling of activities in modular construction factories. <i>Construction Management and Economics</i> , <b>2020</b> , 38, 534-551	3	7
71	Smart Buildings: Systems and Drivers. <i>Buildings</i> , <b>2020</b> , 10, 153	3.2	23
70	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> , <b>2020</b> , 231, 1	2.6	7
69	Optimising Window Design on Residential Building Facades by Considering Heat Transfer and Natural Lighting in Nontropical Regions of Australia. <i>Buildings</i> , <b>2020</b> , 10, 206	3.2	4
68	Sustainable Urban Development in Slum Areas in the City of Rio de Janeiro Based on LEED-ND Indicators. <i>Buildings</i> , <b>2020</b> , 10, 116	3.2	3
67	Development of a Method to Study Evaporation of a Volatile Solvent in an Isolated Subsurface Structure: A Practical Exercise in Risk Minimization. <i>Infrastructures</i> , <b>2020</b> , 5, 68	2.6	
66	Sustainable Construction Achieved Through Life Cycle Assessment: Methodology, Limitations and the Way Forward <b>2020</b> , 576-583		5
65	FRAM AHP approach to analyse offshore oil well drilling and construction focused on human factors. <i>Cognition, Technology and Work</i> , <b>2020</b> , 22, 653-665	2.9	14
64	Visualizing Air Motion Involving Isolated Subsurface Structures: A Critical Tool for Understanding Ventilation Induced by Natural Forces. <i>Infrastructures</i> , <b>2019</b> , 4, 59	2.6	2
63	Solvent Evaporation in an Isolated Subsurface Structure: An Unrecognized and Underappreciated Risk. <i>Infrastructures</i> , <b>2019</b> , 4, 47	2.6	2
62	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> , <b>2019</b> , 239, 118058	10.3	12
61	Surface Air Movement: An Important Contributor to Ventilation of Isolated Subsurface Structures?. <i>Infrastructures</i> , <b>2019</b> , 4, 23	2.6	6

60	Evaluation of Carbon Nanotube Incorporation in Cementitious Composite Materials. <i>Materials</i> , <b>2019</b> , 12,	3.5	8
59	Framework for a Systematic Parametric Analysis to Maximize Energy Output of PV Modules Using an Experimental Design. <i>Sustainability</i> , <b>2019</b> , 11, 2992	3.6	4
58	Integrated optimization with building information modeling and life cycle assessment for generating energy efficient buildings. <i>Applied Energy</i> , <b>2019</b> , 250, 1366-1382	10.7	60
57	Sustainable Zoning, Land-Use Allocation and Facility Location Optimisation in Smart Cities. <i>Energies</i> , <b>2019</b> , 12, 1318	3.1	12
56	Integrating Parametric Analysis with Building Information Modeling to Improve Energy Performance of Construction Projects. <i>Energies</i> , <b>2019</b> , 12, 1515	3.1	22
55	Building information modelling-based framework to contrast conventional and modular construction methods through selected sustainability factors. <i>Journal of Cleaner Production</i> , <b>2019</b> , 228, 1264-1281	10.3	40
54	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> , <b>2019</b> , 1-15	1.9	17
53	Ventilation of an Isolated Subsurface Structure Induced by Natural Forces. <i>Infrastructures</i> , <b>2019</b> , 4, 33	2.6	5
52	A Time-Integrated Index for Flood Risk to Resistance Capacity. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1321	3	4
51	A Framework to Evaluate Urban Flood Resilience of Design Alternatives for Flood Defence Considering Future Adverse Scenarios. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1485	3	16
50	A framework to estimate heat energy loss in building operation. <i>Journal of Cleaner Production</i> , <b>2019</b> , 235, 789-800	10.3	17
49	Daylight Assessment and Energy Consumption Analysis at an Early Stage of Designing Residential Buildings Integrating BIM and LCA <b>2019</b> , 79-98		2
48	Natural Ventilation in Isolated Subsurface Structures in the Infrastructure: A Review. <i>Environment and Natural Resources Research</i> , <b>2019</b> , 9, 61	1.1	4
47	Applicability of Casa Azul Certification as Sustainability Tool Available in Brazil [Case Study: Condo Neo Niteri] <b>2019</b> , 149-164		
46	Ventilation Induced in an Isolated Subsurface Structure by Natural Forces: Method Development and Application. <i>Infrastructures</i> , <b>2019</b> , 4, 68	2.6	
45	Case Study: Human Factors Analysis of FPSO Operations Activities in Brazil <b>2019</b> ,		
44	Economic Optimization of the Energy Supply for a Logistics Center Considering Variable-Rate Energy Tariffs and Integration of Photovoltaics. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4711	2.6	5
43	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> , <b>2019</b> , 12, 97-106	5.6	0

42	Life cycle costing as a bottom line for the life cycle sustainability assessment in the solar energy sector: A review. <i>Solar Energy</i> , <b>2019</b> , 192, 238-262	6.8	26
41	Risk minimization in isolated subsurface structures through ventilation induced by natural forces. <i>Safety Science</i> , <b>2018</b> , 102, 125-133	5.8	5
40	Causes of Construction Projects Cost Overrun in Brazil <b>2018</b> , 9,		5
39	Safety assessment of Ammonium Nitrate Fuel Oil (ANFO) manufactory <b>2018</b> , 35-39		
38	Welder Exposure to NO and NO2 during Argon-Shielded Arc Welding on Aluminum Alloys. <i>Toxicology and Environmental Health Sciences</i> , <b>2018</b> , 10, 297-306	1.9	3
37	Multi-objective optimisation of bio-based thermal insulation materials in building envelopes considering condensation risk. <i>Applied Energy</i> , <b>2018</b> , 224, 602-614	10.7	42
36	Material flow analysis of the residential building stock at the city of Rio de Janeiro. <i>Journal of Cleaner Production</i> , <b>2017</b> , 149, 1249-1267	10.3	43
35	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> , <b>2017</b> , 14, 115-126	5.2	110
34	Reducing the Life Cycle Environmental Impact of Buildings Following a Simulation-Optimization Approach <b>2017</b> , 823-839		3
33	A Resilience Engineering Approach for Sustainable Safety in Green Construction. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , <b>2017</b> , 5, 480-495	1.9	12
32	Enhanced thermal energy supply via central solar heating plants with seasonal storage: A multi-objective optimization approach. <i>Applied Energy</i> , <b>2016</b> , 181, 549-561	10.7	60
31	Study of the Technical Capability of Sugarcane Bagasse Ash in Concrete Production. <i>Materials Science Forum</i> , <b>2016</b> , 866, 53-57	0.4	3
30	Life cycle assessment of building construction materials: case study for a housing complex. <i>Revista De La Construccion</i> , <b>2016</b> , 15, 69-77	1.2	5
29	Case Study: LCA Methodology Applied to Materials Management in a Brazilian Residential Construction Site. <i>Journal of Engineering (United States)</i> , <b>2016</b> , 2016, 1-9	1.5	12
28	Systematic approach for the life cycle multi-objective optimization of buildings combining objective reduction and surrogate modeling. <i>Energy and Buildings</i> , <b>2016</b> , 130, 506-518	7	35
27	Multi-objective optimization of thermal modelled cubicles considering the total cost and life cycle environmental impact. <i>Energy and Buildings</i> , <b>2015</b> , 88, 335-346	7	49
26	An Inquiry into the Life Cycle of Systems of Inner Walls: Comparison of Masonry and Drywall. <i>Sustainability</i> , <b>2015</b> , 7, 7904-7925	3.6	9
25	Assessing risk in sustainable construction using the Functional Resonance Analysis Method (FRAM). <i>Cognition, Technology and Work</i> , <b>2015</b> , 17, 559-573	2.9	57

24	Life Cycle Impact Assessment of masonry system as inner walls: A case study in Brazil. <i>Construction and Building Materials</i> , <b>2014</b> , 70, 141-147	6.7	30
23	Risk Assessment for Hexamine Nitration into RDX. <i>Journal of Aerospace Technology and Management</i> , <b>2014</b> , 6, 373-388	0.7	2
22	Life Cycle Inventory for Lead Azide Manufacture. <i>Journal of Aerospace Technology and Management</i> , <b>2014</b> , 6, 53-60	0.7	4
21	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> , <b>2014</b> , 955-959, 1061-1064	0.5	4
20	Risk Assessment Study for a Floating, Production, Storage and Offloading Vessel (FPSO) in Deep Waters. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 700, 495-500	0.3	
19	Human factors applied to alarm panel modernization of nuclear control room. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2013</b> , 26, 1308-1320	3.5	10
18	Use of Cement Hydration Stabilizer Admixture at Ready Mix Concrete to Avoid Material Waste. <i>Advanced Materials Research</i> , <b>2013</b> , 818, 24-29	0.5	3
17	Life Cycle Assessment: A Comparison of Ceramic Brick Inventories to Subsidize the Development of Databases in Brazil. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 431, 370-377	0.3	7
16	Variation of Concrete Strength with the Insertion of Carbon Nanotubes. <i>Advanced Materials Research</i> , <b>2013</b> , 818, 124-131	0.5	
15	Quality Indicators for Life Cycle Inventory: Real Cases Exploratory Application. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 431, 350-355	0.3	2
14	Building Sustainability Assessment throughout Multicriteria Decision Making. <i>Journal of Construction Engineering</i> , <b>2013</b> , 2013, 1-9		7
13	Analysis of the Behavior of Carbon Nanotubes on Cementitious Composites. <i>ISRN Nanomaterials</i> , <b>2013</b> , 2013, 1-17		2
12	Assessing the Sustainability of Existing Buildings Using the Analytic Hierarchy Process. <i>American Journal of Civil Engineering</i> , <b>2013</b> , 1, 24	1.8	14
11	Hazard Matrix Application in Health, Safety and Environmental Management Risk Evaluation <b>2012</b> ,		2
10	Evaluation of the environmental impact of experimental cubicles using Life Cycle Assessment: A highlight on the manufacturing phase. <i>Applied Energy</i> , <b>2012</b> , 92, 534-544	10.7	54
9	Risk identification techniques knowledge and application in the Brazilian construction. <i>Journal of Civil Engineering and Construction Technology</i> , <b>2011</b> , 2,	0.3	4
8	Discussion of a mathematical model to simulate a fire ball from gaseous explosion (BLEVE) <b>2011</b> , 1294-1298		
7	Analysis of the management process in the housing sector: the COHAB/Acre case. <i>Vértices</i> , <b>2010</b> , 12, 87-101	0	

6	Health, safety and environmental management risk evaluation strategy: Hazard Matrix application case studies <b>2008</b> ,		1
5	An application of the relevance matrix methodology in occupational risk evaluation <b>2007</b> ,		1
4	Gestã de contratos na construã civil. <i>Vãtices</i> , <b>2002</b> , 4, 17-23		0
3	Assessing rainwater quality treated via a green roof system. <i>Clean Technologies and Environmental Policy</i> ,1	4-3	1
2	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
1	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