

Mohamed Al-Hussein

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.

162 papers	2,570 citations	30 h-index	44 g-index
198 ext. papers	3,387 ext. citations	5.1 avg, IF	5.85 L-index

#	Paper	IF	Citations
162	Building information modelling for off-site construction: Review and future directions. <i>Automation in Construction</i> , 2019 , 101, 72-91	9.6	121
161	BIM-based integrated approach for detailed construction scheduling under resource constraints. <i>Automation in Construction</i> , 2015 , 53, 29-43	9.6	110
160	Integrating 3D visualization and simulation for tower crane operations on construction sites. <i>Automation in Construction</i> , 2006 , 15, 554-562	9.6	82
159	Optimization Algorithm for Selection and on Site Location of Mobile Cranes. <i>Journal of Construction Engineering and Management - ASCE</i> , 2005 , 131, 579-590	4.2	73
158	Nanohybridization of molybdenum oxide with tungsten molybdenum oxide nanowires for solution-processed fully reversible switching of energy storing smart windows. <i>Nano Energy</i> , 2018 , 47, 130-139	17.1	70
157	Risk identification and assessment of modular construction utilizing fuzzy analytic hierarchy process (AHP) and simulation. <i>Canadian Journal of Civil Engineering</i> , 2013 , 40, 1184-1195	1.3	67
156	Development of Lean Model for House Construction Using Value Stream Mapping. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009 , 135, 782-790	4.2	66
155	Integrated production planning and control system for a panelized home prefabrication facility using simulation and RFID. <i>Automation in Construction</i> , 2018 , 85, 369-383	9.6	65
154	Lean Transformation in a Modular Building Company: A Case for Implementation. <i>Journal of Management in Engineering - ASCE</i> , 2013 , 29, 103-111	5.3	61
153	A deep learning-based framework for an automated defect detection system for sewer pipes. <i>Automation in Construction</i> , 2020 , 109, 102967	9.6	60
152	Ontology-based semantic approach for construction-oriented quantity take-off from BIM models in the light-frame building industry. <i>Advanced Engineering Informatics</i> , 2016 , 30, 190-207	7.4	54
151	A methodology for mobile crane lift path checking in heavy industrial projects. <i>Automation in Construction</i> , 2013 , 31, 41-53	9.6	53
150	A scientometric analysis and critical review of computer vision applications for construction. <i>Automation in Construction</i> , 2019 , 107, 102947	9.6	51
149	Oxygen-Vacancy-Tunable Electrochemical Properties of Electrodeposited Molybdenum Oxide Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20378-20385	9.5	49
148	Virtual reality applications for the built environment: Research trends and opportunities. <i>Automation in Construction</i> , 2020 , 118, 103311	9.6	49
147	An Automated Biomechanical Simulation Approach to Ergonomic Job Analysis for Workplace Design. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015 , 141, 04015020	4.2	48
146	Evolution of the crane selection and on-site utilization process for modular construction multilifts. <i>Automation in Construction</i> , 2014 , 43, 59-72	9.6	46

145	Monitoring building energy consumption, thermal performance, and indoor air quality in a cold climate region. <i>Sustainable Cities and Society</i> , 2014 , 13, 57-68	10.1	45
144	Automated post-simulation visualization of modular building production assembly line. <i>Automation in Construction</i> , 2012 , 21, 229-236	9.6	43
143	A vision-based system for pre-inspection of steel frame manufacturing. <i>Automation in Construction</i> , 2019 , 97, 151-163	9.6	40
142	A BIM-based framework for operation and maintenance of utility tunnels. <i>Tunnelling and Underground Space Technology</i> , 2020 , 97, 103252	5.7	36
141	Utilization of 3D Visualization of Mobile Crane Operations for Modular Construction On-Site Assembly. <i>Journal of Management in Engineering - ASCE</i> , 2015 , 31, 04014080	5.3	36
140	Near optimum selection of module configuration for efficient modular construction. <i>Automation in Construction</i> , 2017 , 83, 316-329	9.6	34
139	BIM-based automated design and planning for boarding of light-frame residential buildings. <i>Automation in Construction</i> , 2018 , 89, 235-249	9.6	34
138	Ergonomic Analysis and the Need for Its Integration for Planning and Assessing Construction Tasks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012 , 138, 1370-1376	4.2	33
137	Spatial gaps in urban public transport supply and demand from the perspective of sustainability. <i>Journal of Cleaner Production</i> , 2018 , 195, 1237-1248	10.3	32
136	Towards sustainable construction: BIM-enabled design and planning of roof sheathing installation for prefabricated buildings. <i>Journal of Cleaner Production</i> , 2019 , 235, 1189-1201	10.3	32
135	Automated Method for Checking Crane Paths for Heavy Lifts in Industrial Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139, 04013011	4.2	32
134	Electrochromic Battery Displays with Energy Retrieval Functions Using Solution-Processable Colloidal Vanadium Oxide Nanoparticles. <i>Advanced Optical Materials</i> , 2020 , 8, 1901224	8.1	32
133	Productivity and CO2 emission analysis for tower crane utilization on high-rise building projects. <i>Automation in Construction</i> , 2013 , 31, 255-264	9.6	30
132	3D-Based Crane Evaluation System for Mobile Crane Operation Selection on Modular-Based Heavy Construction Sites. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 04017060	4.2	29
131	Constructing a Complex Precast Tilt-Up-Panel Structure Utilizing an Optimization Model, 3D CAD, and Animation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2007 , 133, 199-207	4.2	28
130	Interactive and Dynamic Integrated Module for Mobile Cranes Supporting System Design. <i>Journal of Construction Engineering and Management - ASCE</i> , 2010 , 136, 179-186	4.2	27
129	Algorithm for Mobile Crane Walking Path Planning in Congested Industrial Plants. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015 , 141, 05014016	4.2	25
128	Construction Industrialization in China: Current Profile and the Prediction. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 180	2.6	25

127	Application of Lean Concepts and Simulation Analysis to Improve Efficiency of Drainage Operations Maintenance Crews. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 291-299	4.2	25
126	An energy performance monitoring, analysis and modelling framework for NetZero Energy Homes (NZEHS). <i>Energy and Buildings</i> , 2016 , 126, 353-364	7	24
125	Automating motion trajectory Of crane-lifted loads. <i>Automation in Construction</i> , 2014 , 45, 178-186	9.6	24
124	Stakeholder studies and the social networks of NetZero energy homes (NZEHS). <i>Sustainable Cities and Society</i> , 2018 , 38, 9-17	10.1	23
123	An integrated decision support model for selecting the most feasible crane at heavy construction sites. <i>Automation in Construction</i> , 2018 , 87, 188-200	9.6	22
122	From AutoCAD to 3ds Max: An automated approach for animating heavy lifting studies. <i>Canadian Journal of Civil Engineering</i> , 2015 , 42, 190-198	1.3	21
121	Post simulation visualization model for effective scheduling of modular building construction1This paper is one of a selection of papers in this Special Issue on Construction Engineering and Management.. <i>Canadian Journal of Civil Engineering</i> , 2012 , 39, 1053-1061	1.3	21
120	3D Visualization-Based Ergonomic Risk Assessment and Work Modification Framework and Its Validation for a Lifting Task. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018 , 144, 04017093	4.2	21
119	3D Visualization-Based Motion Planning of Mobile Crane Operations in Heavy Industrial Projects. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04014127	5	20
118	Municipal Infrastructure Asset Levels of Service Assessment for Investment Decisions Using Analytic Hierarchy Process. <i>Journal of Infrastructure Systems</i> , 2008 , 14, 193-200	2.9	20
117	Automated post-3D visualization ergonomic analysis system for rapid workplace design in modular construction. <i>Automation in Construction</i> , 2019 , 98, 160-174	9.6	20
116	Framework for an IoT-based shop floor material management system for panelized homebuilding. <i>International Journal of Construction Management</i> , 2020 , 20, 130-145	1.9	20
115	Automated generation of shop drawings in residential construction. <i>Automation in Construction</i> , 2015 , 55, 15-24	9.6	19
114	Carbon Reduction Measures-Based LCA of Prefabricated Temporary Housing with Renewable Energy Systems. <i>Sustainability</i> , 2018 , 10, 718	3.6	19
113	A BIM-based automation of design and drafting for manufacturing of wood panels for modular residential buildings. <i>International Journal of Construction Management</i> , 2019 , 19, 187-205	1.9	19
112	D-CRANE: a database system for utilization of cranes. <i>Canadian Journal of Civil Engineering</i> , 2000 , 27, 1130-1138	1.3	18
111	Assessing accessibility-based service effectiveness (ABSEV) and social equity for urban bus transit: A sustainability perspective. <i>Sustainable Cities and Society</i> , 2019 , 44, 499-510	10.1	18
110	An improved physical demand analysis framework based on ergonomic risk assessment tools for the manufacturing industry. <i>International Journal of Industrial Ergonomics</i> , 2019 , 70, 58-69	2.9	17

109	2D Drawing Visualization Framework for Applying Projection-Based Augmented Reality in a Panelized Construction Manufacturing Facility: Proof of Concept. <i>Journal of Computing in Civil Engineering</i> , 2019 , 33, 04019032	5	16
108	Application of lean thinking to improve the productivity of water and sewer service installations. <i>Canadian Journal of Civil Engineering</i> , 2008 , 35, 418-430	1.3	16
107	BIM-based decision support system for automated manufacturability check of wood frame assemblies. <i>Automation in Construction</i> , 2020 , 111, 103065	9.6	15
106	Difference analysis of regional population ageing from temporal and spatial perspectives: a case study in China. <i>Regional Studies</i> , 2019 , 53, 849-860	3.4	12
105	User-centered interior finishing material selection: An immersive virtual reality-based interactive approach. <i>Automation in Construction</i> , 2019 , 106, 102884	9.6	11
104	A method for integrating occupational indoor air quality with building information modeling for scheduling construction activities. <i>Canadian Journal of Civil Engineering</i> , 2014 , 41, 245-251	1.3	11
103	Integrated BIM/Lean Base Production Line Schedule Model for Modular Construction Manufacturing 2012 ,		11
102	Improvement of transportation cost estimation for prefabricated construction using geo-fence-based large-scale GPS data feature extraction and support vector regression. <i>Advanced Engineering Informatics</i> , 2020 , 43, 101012	7.4	11
101	Generation of safe tool-paths for automatic manufacturing of light gauge steel panels in residential construction. <i>Automation in Construction</i> , 2019 , 98, 46-60	9.6	11
100	Data-driven bi-level sewer pipe deterioration model: Design and analysis. <i>Automation in Construction</i> , 2020 , 116, 103181	9.6	10
99	Intelligent vision-based online inspection system of screw-fastening operations in light-gauge steel frame manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 109, 645-657	3.2	10
98	A multi-criteria lifecycle assessment framework for evaluating building systems design. <i>Journal of Building Engineering</i> , 2019 , 23, 388-402	5.2	10
97	Analytic Hierarchy ProcessSimulation Framework for Lighting Maintenance Decision-Making Based on the Clustered Network. <i>Journal of Performance of Constructed Facilities</i> , 2018 , 32, 04017114	2	9
96	Energy performance and the discrepancy of multiple NetZero Energy Homes (NZEHS) in cold regions. <i>Journal of Cleaner Production</i> , 2018 , 172, 106-118	10.3	9
95	Evaluation of the thermal and structural performance of potential energy efficient wall systems for mid-rise wood-frame buildings. <i>Energy and Buildings</i> , 2014 , 82, 416-427	7	9
94	A BIM-Based Simulation Model for Inventory Management in Panelized Construction 2015 ,		9
93	Process-Oriented Framework to Improve Modular and Offsite Construction Manufacturing Performance. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020116	4.2	9
92	Real-time visual detection and correction of automatic screw operations in dimpled light-gauge steel framing with pre-drilled pilot holes. <i>Procedia Manufacturing</i> , 2019 , 34, 798-803	1.5	8

91	A framework to monitor the integrated multi-source space heating systems to improve the design of the control system. <i>Energy and Buildings</i> , 2014 , 72, 398-410	7	8
90	Equipment workspace analysis in infrastructure projects. <i>Canadian Journal of Civil Engineering</i> , 2007 , 34, 1247-1256	1.3	8
89	A vision-based approach for automatic progress tracking of floor paneling in offsite construction facilities. <i>Automation in Construction</i> , 2021 , 125, 103620	9.6	8
88	Virtual Construction Automation for Modular Assembly Operations 2009 ,		7
87	Case Study-Based Challenges of Quality Concrete Finishing for Architecturally Complex Structures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2007 , 133, 208-216	4.2	7
86	Wood-Frame Wall Panel Sequencing Based on Discrete-Event Simulation and Particle Swarm Optimization 2014 ,		7
85	Ontology-Based Knowledge Modeling for Frame Assemblies Manufacturing 2019 ,		7
84	Spatial Analysis Framework for Age-Restricted Communities Integrating Spatial Distribution and Accessibility Evaluation. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2020 , 146, 04019021	2.1	7
83	Energy-based target cost modelling for construction projects. <i>Journal of Building Engineering</i> , 2018 , 20, 387-399	5.2	6
82	Framework for target cost modelling in construction projects. <i>International Journal of Construction Management</i> , 2020 , 20, 89-104	1.9	6
81	A user-centric space heating energy management framework for multi-family residential facilities based on occupant pattern prediction modeling. <i>Building Simulation</i> , 2017 , 10, 899-916	3.9	5
80	Simulation-Driven Design of Wood Framing Support Systems for Off-Site Construction Machinery. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020075	4.2	5
79	An agent-based simulation framework for analysing fall risk among older adults in the evacuation procedures. <i>Safety Science</i> , 2020 , 129, 104790	5.8	5
78	Improving Information Sharing in Major Construction Projects through OC and POC: RDT Perspective. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020068	4.2	5
77	Achieving housing energy-efficiency requirements: Methodologies and impacts on housing construction cost and energy performance. <i>Journal of Building Engineering</i> , 2019 , 26, 100874	5.2	5
76	Evidence-Based Evaluation of Staircase Architectural Design to Reduce the Risk of Falling for Older Adults. <i>Journal of Housing for the Elderly</i> , 2014 , 28, 107-132	1.6	5
75	Incentive genetic algorithm based time-cost trade-off analysis across a build-operate-transfer project concession period. <i>Canadian Journal of Civil Engineering</i> , 2011 , 38, 166-174	1.3	5
74	Innovative System for Off-the-Ground Rotation of Long Objects Using Mobile Cranes. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 478-485	4.2	5

73	Combinatorial Algorithm for Optimizing Wood Waste in Framing Designs. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 188-197	4.2	5
72	Application of Robotic Obstacle Avoidance in Crane Lift Path Planning 2011 ,		5
71	BIM-Based Integrated Framework for Detailed Cost Estimation and Schedule Planning of Construction Projects 2014 ,		5
70	Automatic Selection Tool of Quality Control Specifications for Off-site Construction Manufacturing Products: A BIM-based Ontology Model Approach. <i>Modular and Offsite Construction (MOC) Summit Proceedings</i> , 141-148		5
69	Exploring and verifying BIM-based energy simulation for building operations. <i>Engineering, Construction and Architectural Management</i> , 2020 , 27, 1679-1702	3.1	5
68	Novel Approach to Overcoming Discontinuity in Knowledge: Application in Value-Adding Frameworks in Construction Industry. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019045	4.2	4
67	The application of multi-attribute utility theory for a market share-based design evaluation. <i>International Journal of Housing Markets and Analysis</i> , 2019 , 12, 985-1003	1.2	4
66	Automated verification of 3D manufacturability for steel frame assemblies. <i>Automation in Construction</i> , 2020 , 118, 103287	9.6	4
65	Integrated approach for older adult friendly home staircase architectural design. <i>Automation in Construction</i> , 2014 , 39, 117-125	9.6	4
64	Automated energy simulation and analysis for NetZero Energy Home (NZEH) design. <i>Building Simulation</i> , 2017 , 10, 285-296	3.9	4
63	Integrated Building Information Model to Identify Possible Crane Instability Caused by Strong Winds 2012 ,		4
62	An integrated methodology for collecting, classifying, and analyzing Canadian construction court cases. <i>Canadian Journal of Civil Engineering</i> , 2007 , 34, 177-188	1.3	4
61	Application of Virtual Reality in Task Training in the Construction Manufacturing Industry 2019 ,		4
60	Factor-based target cost modelling for construction projects. <i>Canadian Journal of Civil Engineering</i> , 2018 , 45, 393-406	1.3	3
59	Conceptual design of an automated steel wall framing assembly using axiomatic design and integrated function model. <i>Construction Robotics</i> , 2019 , 3, 83-101	1.4	3
58	2015 ,		3
57	Simulation based multi-objective cost-time trade-off for multi-family residential off-site construction 2015 ,		3
56	Framework for Modeling On-Site Productivity of Preventive Maintenance Activities for Wastewater Collection Systems. <i>Journal of Infrastructure Systems</i> , 2015 , 21, 04015003	2.9	3

55	A VR Model of Ergonomics and Productivity Assessment in Panelized Construction Production Line 2012 ,		3
54	Spatial Trajectory Analysis for Cranes Operations on Construction Sites 2010 ,		3
53	Sustainable precast concrete foundation system for residential construction. <i>Canadian Journal of Civil Engineering</i> , 2008 , 35, 190-199	1.3	3
52	OPTIMIZING MULTI-WALL PANEL CONFIGURATION FOR PANELIZED CONSTRUCTION USING BIM. <i>Proceedings of International Structural Engineering and Construction</i> , 2017 , 4,	1.4	3
51	AUTOMATION OF A STEEL WALL FRAMING ASSEMBLY. <i>Proceedings of International Structural Engineering and Construction</i> , 2017 , 4,	1.4	3
50	Discrete and Continuous Simulation Approach to Optimize the Productivity of Modular Construction Element 2016 ,		3
49	Standard Closed-Circuit Television (CCTV) Collection Time Extraction of Sewer Pipes with Machine Learning Algorithm 2019 ,		3
48	Use of Finite Element Analysis for the Estimate of Freezing & Maintenance Phase of Indirect & Direct Artificial Ground Freezing of Proposed Frozen Silt Mat, an Alternative of Timber Mat 2019 ,		3
47	Online vision-based inspection system for thermoplastic hot plate welding in window frame manufacturing. <i>Procedia CIRP</i> , 2020 , 93, 1316-1321	1.8	3
46	Solar photovoltaic optimization for commercial flat rooftops in cold regions 2016 ,		3
45	Improving the productivity of drainage operations activities through schedule optimisation. <i>Urban Water Journal</i> , 2017 , 14, 298-306	2.3	2
44	Construction Workers Behavior Assessment Using 3D Visualization and Fuzzy Logic Method 2020 ,		2
43	Post-design system control for integrated space heating systems in residential buildings in cold regions. <i>Building and Environment</i> , 2015 , 94, 313-324	6.5	2
42	Simulation of mobile crane operations in 3D space 2012 ,		2
41	Residential Construction Lot Grading Approval Process Optimization: Case Study of City of Edmonton. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 1225-1233	4.2	2
40	PRIORITY RATING LOGIC SIMULATION MODEL FOR TOWER CRANE OPERATIONS MANAGEMENT. <i>Journal of Construction Research</i> , 2006 , 07, 133-147		2
39	Integrated Visualization and Simulation for Lifting Operations of Modules under Congested Environment 2014 ,		2
38	Automation for Mobile Crane Motion Planning in Industrial Projects 2014 ,		2

37	Application of Virtual Reality to Perform Ergonomic Risk Assessment in Industrialized Construction: Experiment Design 2020 ,		2
36	Energy-Efficiency Requirements for Residential Building Envelopes in Cold-Climate Regions. <i>Atmosphere</i> , 2021 , 12, 405	2.7	2
35	Automation for sewer pipe assessment: CCTV video interpretation algorithm and sewer pipe video assessment (SPVA) system development. <i>Automation in Construction</i> , 2021 , 125, 103622	9.6	2
34	Competitive Assessment of Ice and Frozen Silt Mat for Crane Ground Support Using Finite-Element Analysis. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021 , 147, 04021038	4.2	2
33	Energy code compliant house design for lowest lifecycle cost based on market-available technologies. <i>Canadian Journal of Civil Engineering</i> , 2019 , 46, 308-321	1.3	2
32	Thermal resistance of multi-functional panels in cold-climate regions. <i>Journal of Building Engineering</i> , 2021 , 33, 101838	5.2	2
31	Design automation of control panels for automated modular construction machines. <i>Procedia CIRP</i> , 2018 , 70, 404-409	1.8	2
30	Neighborhood Design and Regional Accessibility of Age-Restricted Communities from Resiliency and Spatial Perspectives 2018 ,		2
29	4D-based automation of heavy lift planning in industrial construction projects. <i>Canadian Journal of Civil Engineering</i> , 2021 , 48, 1115-1129	1.3	2
28	Overdue Invoice Management: Markov Chain Approach. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015 , 141, 04014062	4.2	1
27	Data-Driven Framework for Modeling Productivity of Closed-Circuit Television Recording Process for Sewer Pipes. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020093	4.2	1
26	Long-term performance and GHG emission offset analysis of small-scale grid-tied residential solar PV systems in northerly latitudes. <i>Advances in Building Energy Research</i> , 2020 , 1-22	1.8	1
25	Automated rigging design for heavy industrial lifts. <i>Automation in Construction</i> , 2020 , 112, 103083	9.6	1
24	Experimental Study on the Palatability Impacts of Potable Water as a Hydronic Medium. <i>Water (Switzerland)</i> , 2018 , 10, 218	3	1
23	Improved Target-Value Design Approach through the Integration of Environmental Performance and Reliability Theory 2018 ,		1
22	Minimizing joist cutting waste through dynamic waste allocation in panelized floor manufacturing. <i>International Journal of Construction Management</i> , 2019 , 1-13	1.9	1
21	An automated system for the creation of an urban infrastructure 3D model using image processing techniques. <i>KSCE Journal of Civil Engineering</i> , 2012 , 16, 9-17	1.9	1
20	Energy Simulation of a Building Envelope for NetZero Energy Home (NZEH) Design 2015 ,		1

19	Integrated Module for Mobile Crane Dynamic Instability Analysis and Supporting System Design 2009 ,		1
18	Vision-based automated waste audits: a use case from the window manufacturing industry. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	1
17	A Comparative Study of Offsite Construction Manufacturing Techniques 2020 ,		1
16	A framework for value visualization in the construction industry to support value-oriented design. <i>Canadian Journal of Civil Engineering</i> , 2020 , 47, 833-845	1.3	1
15	Bilevel Decision-Support Model for Bus-Route Optimization and Accessibility Improvement for Seniors. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04019057	5	1
14	Data-Driven Sewer Pipe Data Random Generation and Validation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020131	4.2	1
13	Implementation of Combined Loading to Calculate Ground Bearing Pressure under Crawler Crane Tracks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021 , 147,	4.2	1
12	A cyber-physical system approach to zero-defect manufacturing in light-gauge steel frame assemblies. <i>Procedia Computer Science</i> , 2022 , 200, 924-933	1.6	1
11	Integrating off-site and on-site panelized construction schedules using fleet dispatching. <i>Automation in Construction</i> , 2022 , 137, 104201	9.6	1
10	A hybrid precast concrete stiffened wall substructure for residential construction on expansive soils. <i>Journal of Building Engineering</i> , 2022 , 50, 104189	5.2	0
9	Integrated lean concepts and continuous/discrete-event simulation to examine productivity improvement in door assembly-line for residential buildings. <i>International Journal of Construction Management</i> , 2020 , 1-12	1.9	0
8	Conceptual design of controllers for automated modular construction machines. <i>Results in Engineering</i> , 2021 , 10, 100220	3.3	0
7	Simulation of ground bearing pressure profile under hydraulic crane outrigger mats for the verification of 16-point combined loading. <i>Procedia Computer Science</i> , 2021 , 180, 482-491	1.6	0
6	Decision support for hydraulic crane stabilization using combined loading and crane mat strength analysis. <i>Automation in Construction</i> , 2021 , 131, 103884	9.6	0
5	Prediction of human restorative experience for human-centered residential architecture design: A non-immersive VRDOE-based machine learning method. <i>Automation in Construction</i> , 2022 , 136, 104189	9.6	0
4	Experimental study of the performance of residential buildings utilizing potable water as a hydronic medium. <i>Journal of Building Engineering</i> , 2018 , 16, 220-227	5.2	
3	The University of Alberta's Hole School of Construction Engineering: 25 Years of Impact and Innovation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 02517001	4.2	
2	Climate Chamber Experiment-Based Thermal Analysis and Design Improvement of Traditional Huizhou Masonry Walls. <i>Sustainability</i> , 2018 , 10, 694	3.6	

- 1 Automated Ergonomics-Based Productivity Analysis for Intelligent Manufacturing in Industrialized Construction. *Lecture Notes in Civil Engineering*, **2023**, 321-333 0.3