Mehrdad Arashpour

List of Publications by Year
in descending order

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80 papers	3,030 citations	186209 28 h-index	175177 52 g-index
80 all docs	80 docs citations	80 times ranked	1733 citing authors

#	Article	IF	Citations
1	Critical evaluation of off-site construction research: A Scientometric analysis. Automation in Construction, 2018, 87, 235-247.	4.8	406
2	Predicting the compressive strength of normal and High-Performance Concretes using ANN and ANFIS hybridized with Grey Wolf Optimizer. Construction and Building Materials, 2020, 232, 117266.	3.2	289
3	Collaboration in BIM-based construction networks: A bibliometric-qualitative literature review. International Journal of Project Management, 2017, 35, 1288-1301.	2.7	262
4	Lean Methodologies and Techniques for Modular Construction: Chronological and Critical Review. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	97
5	Analysis of Citation Networks in Building Information Modeling Research. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	93
6	Off-site construction optimization: Sequencing multiple job classes with time constraints. Automation in Construction, 2016, 71, 262-270.	4.8	89
7	Optimization of process integration and multi-skilled resource utilization in off-site construction. Automation in Construction, 2015, 50, 72-80.	4.8	88
8	Optimization modeling of multi-skilled resources in prefabrication: Theorizing cost analysis of process integration in off-site construction. Automation in Construction, 2018, 95, 1-9.	4.8	85
9	Analysis of interacting uncertainties in on-site and off-site activities: Implications for hybrid construction. International Journal of Project Management, 2016, 34, 1393-1402.	2.7	81
10	Optimizing decisions in advanced manufacturing of prefabricated products: Theorizing supply chain configurations in off-site construction. Automation in Construction, 2017, 84, 146-153.	4.8	81
11	Sensor-based safety management. Automation in Construction, 2020, 113, 103128.	4.8	78
12	Integrated management of on-site, coordination and off-site uncertainty: Theorizing risk analysis within a hybrid project setting. International Journal of Project Management, 2017, 35, 647-655.	2.7	68
13	Enhancing collaboration in BIM-based construction networks through organisational discontinuity theory: a case study of the new Royal Adelaide Hospital. Architectural Engineering and Design Management, 2016, 12, 333-352.	1.2	64
14	3D point cloud data processing with machine learning for construction and infrastructure applications: A comprehensive review. Advanced Engineering Informatics, 2022, 51, 101501.	4.0	64
15	Autonomous production tracking for augmenting output in off-site construction. Automation in Construction, 2015, 53, 13-21.	4.8	60
16	Analysis of Workflow Variability and Its Impacts on Productivity and Performance in Construction of Multistory Buildings. Journal of Management in Engineering - ASCE, 2015, 31, .	2.6	49
17	An integrated model for factors affecting construction and demolition waste management in Iran. Engineering, Construction and Architectural Management, 2017, 24, 1246-1268.	1.8	46
18	Sustainable pavement construction: A systematic literature review of environmental and economic analysis of recycled materials. Journal of Cleaner Production, 2021, 313, 127936.	4.6	44

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19	Scene understanding in construction and buildings using image processing methods: A comprehensive review and a case study. Journal of Building Engineering, 2021, 33, 101672.	1.6	42
20	Performance-based control of variability and tolerance in off-site manufacture and assembly: optimization of penalty on poor production quality. Construction Management and Economics, 2020, 38, 502-514.	1.8	41
21	Collaborative Role of Sociotechnical Components in BIM-Based Construction Networks in Two Hospitals. Journal of Management in Engineering - ASCE, 2018, 34, .	2.6	40
22	Optimal process integration architectures in off-site construction: Theorizing the use of multi-skilled resources. Architectural Engineering and Design Management, 2018, 14, 46-59.	1.2	40
23	Analysis of Disruptions Caused by Construction Field Rework on Productivity in Residential Projects. Journal of Construction Engineering and Management - ASCE, 2014, 140, .	2.0	36
24	The evolution of stakeholder management practices in Australian mega construction projects. Engineering, Construction and Architectural Management, 2018, 25, 690-706.	1.8	36
25	Viability of the BIM Manager Enduring as a Distinct Role: Association Rule Mining of Job Advertisements. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	35
26	Optimal Work Assignment to Multiskilled Resources in Prefabricated Construction. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	34
27	Barriers to the use of integrated project delivery (IPD): a quantified model for Malaysia. Engineering, Construction and Architectural Management, 2019, 27, 186-204.	1.8	34
28	Application of Nonlinear-Autoregressive-Exogenous model to predict the hysteretic behaviour of passive control systems. Engineering Structures, 2015, 85, 1-10.	2.6	33
29	Safety management in construction: 20Âyears of risk modeling. Safety Science, 2020, 129, 104805.	2.6	29
30	Vision-based excavator pose estimation using synthetically generated datasets with domain randomization. Automation in Construction, 2022, 134, 104089.	4.8	29
31	Sustainability by Information and Communication Technology: A paradigm shift for construction projects in Iran. Journal of Cleaner Production, 2017, 168, 1-13.	4.6	28
32	An integrated review of automation and robotic technologies for structural prefabrication and construction. Transportation Safety and Environment, 2020, 2, 81-96.	1.1	28
33	Computer vision for anatomical analysis of equipment in civil infrastructure projects: Theorizing the development of regression-based deep neural networks. Automation in Construction, 2022, 137, 104193.	4.8	28
34	Skill Set Configuration in Prefabricated Construction: Hybrid Optimization and Multicriteria Decision-Making Approach. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	25
35	Critical Literature Review of Labor Multiskilling in Construction. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	22
36	Critical success factors for implementing risk management systems in developing countries. Construction Economics and Building, 2016, 16, 18-32.	0.5	21

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37	Evaluating the Impact of Building Information Modeling on the Labor Productivity of Construction Projects in Malaysia. Buildings, 2020, 10, 66.	1.4	21
38	Novel metaheuristic-based type-2 fuzzy inference system for predicting the compressive strength of recycled aggregate concrete. Journal of Cleaner Production, 2021, 320, 128771.	4.6	21
39	Collaborative Scheduling of On-Site and Off-Site Operations in Prefabrication. Sustainability, 2020, 12, 9266.	1.6	20
40	Predicting the compressive strength of green concretes using Harris hawks optimization-based data-driven methods. Construction and Building Materials, 2022, 318, 125944.	3.2	20
41	A new approach for modelling variability in residential construction projects. Construction Economics and Building, 2013, 13, 83-92.	0.5	18
42	Green mix design of rubbercrete using machine learning-based ensemble model and constrained multi-objective optimization. Journal of Cleaner Production, 2021, 327, 129518.	4.6	17
43	Comparative life cycle assessment of reprocessed plastics and commercial polymer modified asphalts. Journal of Cleaner Production, 2022, 337, 130464.	4.6	17
44	Framework for improving workflow stability: deployment of optimized capacity buffers in a synchronized construction production. Canadian Journal of Civil Engineering, 2014, 41, 995-1004.	0.7	16
45	Quantitative Analysis of Rate-Driven and Due Dateâ€“Driven Construction: Production Efficiency, Supervision, and Controllability in Residential Projects. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	16
46	Investigating the Barriers to Applying the Internet-of-Things-Based Technologies to Construction Site Safety Management. International Journal of Environmental Research and Public Health, 2022, 19, 868.	1.2	16
47	Artificial Neural Network for Predicting Building Energy Performance: A Surrogate Energy Retrofits Decision Support Framework. Buildings, 2022, 12, 829.	1.4	16
48	Valuing the contribution of knowledge-oriented workers to projects: a merit based approach in the construction industry. Construction Economics and Building, 2015, 12, 1-12.	0.5	14
49	Assessing the Influence of Virtuality on the Effectiveness of Engineering Project Networks: â€œBig Five Theoryâ€•Perspective. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	13
50	A review of building parametersâ€™ roles in conserving energy versus maintaining comfort. Journal of Building Engineering, 2021, 35, 102087.	1.6	13
51	Automatic farâ€field camera calibration for construction scene analysis. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1073-1090.	6.3	13
52	Predicting delays in prefabricated projects: SD-BP neural network to define effects of risk disruption. Engineering, Construction and Architectural Management, 2022, 29, 1753-1776.	1.8	12
53	Back-stepping control of delta parallel robots with smart dynamic model selection for construction applications. Automation in Construction, 2022, 137, 104211.	4.8	12
54	Predicting the construction labour productivity using artificial neural network and grasshopper optimisation algorithm. International Journal of Construction Management, 2023, 23, 763-779.	2.2	11

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55	A Bayesian smoothing for inputâ€state estimation of structural systems. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 317-334.	6.3	11
56	Machine learning-based analysis of occupant-centric aspects: Critical elements in the energy consumption of residential buildings. Journal of Building Engineering, 2022, 46, 103846.	1.6	9
57	Design for Manufacture and Assembly in Off-Site Construction: Advanced Production of Modular FaÃ§ade Systems. , 2018, , .		8
58	Behavior and design of thin-walled double-skin concrete-filled rectangular steel tubular short and slender columns with external stainless-steel tube incorporating local buckling effects. Thin-Walled Structures, 2022, 170, 108552.	2.7	8
59	Recursive principal component analysis for model order reduction with application in nonlinear Bayesian filtering. Computer Methods in Applied Mechanics and Engineering, 2020, 371, 113334.	3.4	7
60	Quantitative Analysis of Safety Risks and Relationship with Delayed Project Completion Times. Risk Analysis, 2022, 42, 580-591.	1.5	7
61	Australia's push to make residential housing sustainable - Do end-users care?. Habitat International, 2021, 114, 102384.	2.3	7
62	A qualitative investigation of perceived impacts of virtuality on effectiveness of hybrid construction project teams. Construction Innovation, 2018, 18, 109-131.	1.5	5
63	OPTIMISING COLLABORATIVE LEARNING AND GROUP WORK AMONGST TERTIARY STUDENTS. Proceedings of International Structural Engineering and Construction, 2019, 6, .	0.1	5
64	An analysis of 4D-BIM Construction Planning: Advantages, Risks and Challenges. , 2020, , .		5
65	Hybrid bi-objective economic lot scheduling problem with feasible production plan equipped with an efficient adjunct search technique. International Journal of Systems Science: Operations and Logistics, 2023, 10, .	2.0	5
66	Multiskilled Workforce Planning: A Case from the Construction Industry. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	5
67	The Less Agents, the More Schedule Reliability: Examination of Single-Point Responsibility Model in Design Management. International Journal of Civil Engineering, 2019, 17, 1307-1316.	0.9	4
68	Process Modelling in Civil Infrastructure Projects: A Review of Construction Simulation Methods. , 2019, , .		4
69	Applications of Building Information Modeling (BIM) in Disaster Resilience: Present Status and Future Trends. , 2020, , .		4
70	Group Dynamics in Higher Education. Advances in Educational Technologies and Instructional Design Book Series, 2020, , 42-60.	0.2	4
71	Project Production Flows in Off-Site Prefabrication: BIM-Enabled Railway Infrastructure. , 2018, , .		3
72	Multiskilled Human Resource Problem in Off-Site Construction. , 2018, , .		3

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73	Role of Simulation in Construction Processes â€“ Harmony in Capturing Resources. , 2012, , .		3
74	The Cost Burden of Safety Risk Incidents on Construction: A Probabilistic Quantification Method. Risk Analysis, 2022, 42, 2312-2326.	1.5	3
75	Simulation-based analysis of occupational health and safety continuous improvement (OHSCI) in modern construction and infrastructure industries. Automation in Construction, 2022, 134, 104058.	4.8	3
76	Constructible Design for Off-site Prefabricated Structures in Industrial Environments: Review of Mixed Reality Applications. , 2020, , .		2
77	Worksite Accident Impacts on Construction and Infrastructure: Nondeterministic Analysis of Subsectors and Organization Sizes. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	2
78	A Critical Review of Machine Vision Applications in Construction. , 2020, , .		1
79	Using BIM for multi-trade prefabrication in construction. , 2020, , 209-221.		1
80	A simulation model for investigation of operation of elevatorâ€™s up-peak. Journal of Simulation, 2020, 14, 229-238.	1.0	0