

# Waleed Umer

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

808  
citations

566801

15  
h-index

676716

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of load carrying techniques on gait parameters, dynamic balance, and physiological parameters during a manual material handling task. <i>Engineering, Construction and Architectural Management</i> , 2022, 29, 3415-3438.	1.8	7
2	Simultaneous monitoring of physical and mental stress for construction tasks using physiological measures. <i>Journal of Building Engineering</i> , 2022, 46, 103777.	1.6	13
3	Quantifying the Effect of Mental Stress on Physical Stress for Construction Tasks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, .	2.0	10
4	Deep learning-based networks for automated recognition and classification of awkward working postures in construction using wearable insole sensor data. <i>Automation in Construction</i> , 2022, 136, 104181.	4.8	34
5	Performance Evaluation of Plastic Concrete Modified with E-Waste Plastic as a Partial Replacement of Coarse Aggregate. <i>Materials</i> , 2022, 15, 175.	1.3	26
6	Heart rate variability based physical exertion monitoring for manual material handling tasks. <i>International Journal of Industrial Ergonomics</i> , 2022, 89, 103301.	1.5	7
7	Posture-related data collection methods for construction workers: A review. <i>Automation in Construction</i> , 2021, 124, 103538.	4.8	32
8	Evaluation of Physiological Metrics as Real-Time Measurement of Physical Fatigue in Construction Workers: State-of-the-Art Review. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, .	2.0	51
9	Test-retest reliability, validity, and responsiveness of a textile-based wearable sensor for real-time assessment of physical fatigue in construction bar-benders. <i>Journal of Building Engineering</i> , 2021, 44, 103348.	1.6	7
10	Identification and classification of construction equipment operators' mental fatigue using wearable eye-tracking technology. <i>Automation in Construction</i> , 2020, 109, 103000.	4.8	91
11	Exploring the Injury Severity Risk Factors in Fatal Crashes with Neural Network. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7466.	1.2	32
12	Cardiorespiratory and Thermoregulatory Parameters Are Good Surrogates for Measuring Physical Fatigue during a Simulated Construction Task. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5418.	1.2	24
13	Construction Activity Recognition and Ergonomic Risk Assessment Using a Wearable Insole Pressure System. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	2.0	41
14	Physical exertion modeling for construction tasks using combined cardiorespiratory and thermoregulatory measures. <i>Automation in Construction</i> , 2020, 112, 103079.	4.8	46
15	Use of Ultra Wide Band Real-Time Location System on Construction Jobsites: Feasibility Study and Deployment Alternatives. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2219.	1.2	9
16	Evaluating the impact of mental fatigue on construction equipment operators' ability to detect hazards using wearable eye-tracking technology. <i>Automation in Construction</i> , 2019, 105, 102835.	4.8	79
17	Automatic Biomechanical Workload Estimation for Construction Workers by Computer Vision and Smart Insoles. <i>Journal of Computing in Civil Engineering</i> , 2019, 33, .	2.5	37
18	Proactive Safety Measures: Quantifying the Upright Standing Stability after Sustained Rebar Tying Postures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, 04018010.	2.0	16

#	ARTICLE	IF	CITATIONS
19	The prevalence of musculoskeletal symptoms in the construction industry: a systematic review and meta-analysis. <i>International Archives of Occupational and Environmental Health</i> , 2018, 91, 125-144.	1.1	80
20	Development of a tool to monitor static balance of construction workers for proactive fall safety management. <i>Automation in Construction</i> , 2018, 94, 438-448.	4.8	48
21	Estimating Construction Workers' Physical Workload by Fusing Computer Vision and Smart Insole Technologies. , 2018, , .		14
22	Low-Cost Ergonomic Intervention for Mitigating Physical and Subjective Discomfort during Manual Rebar Tying. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	2.0	39
23	Identification of Biomechanical Risk Factors for the Development of Lower-Back Disorders during Manual Rebar Tying. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	2.0	65