Maxwell Fordjour Antwi-Afari

List of Publications by Year
in descending order

42 papers	1,312 citations	411340 20 h-index	406436 35 g-index
43 all docs	43 docs citations	43 times ranked	823 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. Engineering, Construction and Architectural Management, 2022, 29, 3415-3438.	1.8	7
2	Exploring Key Factors for Contractors in Opening Prefabrication Factories: A Chinese Case Study. Frontiers in Public Health, 2022, 10, 837350.	1.3	2
3	Optimizing the application of strategies promoting electronic procurement systems towards sustainable construction in the building lifecycle: A neurofuzzy model approach. Journal of Cleaner Production, 2022, 336, 130343.	4.6	18
4	Deep learning-based networks for automated recognition and classification of awkward working postures in construction using wearable insole sensor data. Automation in Construction, 2022, 136, 104181.	4.8	34
5	Self-Reinforced Thermoplastic Polyurethane Wrinkled Foams with High Energy Absorption Realized by Gas Cooling Assisted Supercritical CO₂ Foaming. Industrial & Engineering Chemistry Research, 2022, 61, 4832-4841.	1.8	3
6	Fabrication of skinless cellular poly (vinylidene fluoride) films by surface-constrained supercritical CO2 foaming using elastic gas barrier layers. Journal of Supercritical Fluids, 2022, 184, 105562.	1.6	4
7	Design for safety (DfS) practice in construction engineering and management research: A review of current trends and future directions. Journal of Building Engineering, 2022, 52, 104352.	1.6	14
8	Heart rate variability based physical exertion monitoring for manual material handling tasks. International Journal of Industrial Ergonomics, 2022, 89, 103301.	1.5	7
9	STATUS QUO AND FUTURE TRENDS OF BIM-BASED COORDINATION RESEARCH: A CRITICAL REVIEW. Journal of Civil Engineering and Management, 2022, 28, 469-484.	1.9	3
10	Validity and reliability of a wearable insole pressure system for measuring gait parameters to identify safety hazards in construction. Engineering, Construction and Architectural Management, 2021, 28, 1761-1779.	1.8	13
11	Key Factors of Opening Gated Community in Urban Area: A Case Study of China. International Journal of Environmental Research and Public Health, 2021, 18, 3401.	1.2	4
12	Posture-related data collection methods for construction workers: A review. Automation in Construction, 2021, 124, 103538.	4.8	32
13	Evaluation of Physiological Metrics as Real-Time Measurement of Physical Fatigue in Construction Workers: State-of-the-Art Review. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	51
14	Associations between physical or psychosocial risk factors and work-related musculoskeletal disorders in construction workers based on literature in the last 20 years: A systematic review. International Journal of Industrial Ergonomics, 2021, 83, 103113.	1.5	54
15	Synthesis and Fabrication of Supramolecular Polydimethylsiloxane-Based Nanocomposite Elastomer for Versatile and Intelligent Sensing. Industrial & Engineering Chemistry Research, 2021, 60, 10419-10430.	1.8	5
16	Critical Success Factors of Safety Program Implementation in Construction Projects in Iraq. International Journal of Environmental Research and Public Health, 2021, 18, 8469.	1.2	17
17	Assessment of a passive exoskeleton system on spinal biomechanics and subjective responses during manual repetitive handling tasks among construction workers. Safety Science, 2021, 142, 105382.	2.6	42
18	Test-retest reliability, validity, and responsiveness of a textile-based wearable sensor for real-time assessment of physical fatigue in construction bar-benders. Journal of Building Engineering, 2021, 44, 103348.	1.6	7

#	Article	IF	Citations
19	Semantic IFC Data Model for Automatic Safety Risk Identification in Deep Excavation Projects. Applied Sciences (Switzerland), 2021, 11, 9958.	1.3	4
20	An Analysis on Promoting Prefabrication Implementation in Construction Industry towards Sustainability. International Journal of Environmental Research and Public Health, 2021, 18, 11493.	1.2	14
21	Evaluation of Sleep Habits, Generalized Anxiety, Perceived Stress, and Research Outputs Among Postgraduate Research Students in Hong Kong During the Coronavirus (COVID-19) Pandemic. Journal of Multidisciplinary Healthcare, 2021, Volume 14, 3135-3149.	1.1	7
22	A Scientometric Review of System Dynamics Applications in Construction Management Research. Sustainability, 2020, 12, 7474.	1.6	29
23	Cardiorespiratory and Thermoregulatory Parameters Are Good Surrogates for Measuring Physical Fatigue during a Simulated Construction Task. International Journal of Environmental Research and Public Health, 2020, 17, 5418.	1.2	24
24	Shishâ€“Kebab-Structured UHMWPE Coating for Efficient and Cost-Effective Oilâ€“Water Separation. ACS Applied Materials & Interfaces, 2020, 12, 58252-58262.	4.0	18
25	Construction Activity Recognition and Ergonomic Risk Assessment Using a Wearable Insole Pressure System. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	41
26	Quantifying workersâ€™ gait patterns to identify safety hazards in construction using a wearable insole pressure system. Safety Science, 2020, 129, 104855.	2.6	27
27	Physical exertion modeling for construction tasks using combined cardiorespiratory and thermoregulatory measures. Automation in Construction, 2020, 112, 103079.	4.8	46
28	Effects of physical fatigue on the induction of mental fatigue of construction workers: A pilot study based on a neurophysiological approach. Automation in Construction, 2020, 120, 103381.	4.8	61
29	An Investigation of the Effectiveness of Prefabrication Incentive Policies in China. Sustainability, 2019, 11, 5149.	1.6	36
30	Sensing and warning-based technology applications to improve occupational health and safety in the construction industry. Engineering, Construction and Architectural Management, 2019, 26, 1534-1552.	1.8	43
31	The knowledge enablers of knowledge transfer: a study in the construction industries in Ghana. Journal of Engineering, Design and Technology, 2018, 16, 194-210.	1.1	19
32	Critical success factors for implementing building information modelling (BIM): A longitudinal review. Automation in Construction, 2018, 91, 100-110.	4.8	136
33	The prevalence of musculoskeletal symptoms in the construction industry: a systematic review and meta-analysis. International Archives of Occupational and Environmental Health, 2018, 91, 125-144.	1.1	80
34	Wearable Insole Pressure Sensors for Automated Detection and Classification of Slip-Trip-Loss of Balance Events in Construction Workers. , 2018, , .		7
35	Automated detection and classification of construction workers' loss of balance events using wearable insole pressure sensors. Automation in Construction, 2018, 96, 189-199.	4.8	50
36	Fall risk assessment of construction workers based on biomechanical gait stability parameters using wearable insole pressure system. Advanced Engineering Informatics, 2018, 38, 683-694.	4.0	56

#	Article	IF	Citations
37	Wearable insole pressure system for automated detection and classification of awkward working postures in construction workers. Automation in Construction, 2018, 96, 433-441.	4.8	93
38	Quantifying the physical intensity of construction workers, a mechanical energy approach. Advanced Engineering Informatics, 2018, 38, 404-419.	4.0	28
39	Tertiary Educational Infrastructural Development in Ghana: Financing, Challenges and Strategies. Africa Education Review, 2018, 15, 65-81.	0.1	8
40	Identification of potential biomechanical risk factors for low back disorders during repetitive rebar lifting. Construction Innovation, 2018, 18, .	1.5	22
41	Biomechanical analysis of risk factors for work-related musculoskeletal disorders during repetitive lifting task in construction workers. Automation in Construction, 2017, 83, 41-47.	4.8	130
42	Effects of different weights and lifting postures on balance control following repetitive lifting tasks in construction workers. International Journal of Building Pathology and Adaptation, 2017, 35, 247-263.	0.7	16