Muhammad Ali Musarat

List of Publications by Year
in descending order

84 papers	1,319 citations
331259 21 h-index	433756 31 g-index
86 all docs	86 docs citations
86 times ranked	476 citing authors

#	Article	IF	Citations
1	Predictive Modeling of Mechanical Properties of Silica Fume-Based Green Concrete Using Artificial Intelligence Approaches: MLPNN, ANFIS, and GEP. Materials, 2021, 14, 7531.	1.3	75
2	Mechanical Properties of Silica Fume Modified High-Volume Fly Ash Rubberized Self-Compacting Concrete. Sustainability, 2021, 13, 5571.	1.6	65
3	Impact of inflation rate on construction projects budget: A review. Ain Shams Engineering Journal, 2021, 12, 407-414.	3.5	62
4	Construction Sector Contribution to Economic Stability: Malaysian GDP Distribution. Sustainability, 2021, 13, 5012.	1.6	55
5	Modeling of Mechanical Properties of Silica Fume-Based Green Concrete Using Machine Learning Techniques. Polymers, 2022, 14, 30.	2.0	52
6	Soil erosion susceptibility mapping using a GIS-based multi-criteria decision approach: Case of district Chitral, Pakistan. Ain Shams Engineering Journal, 2021, 12, 1637-1649.	3.5	44
7	Investigating the impact of inflation on building materials prices in construction industry. Journal of Building Engineering, 2020, 32, 101485.	1.6	41
8	Modeling and design optimization of reclaimed asphalt pavement containing crude palm oil using response surface methodology. Construction and Building Materials, 2021, 291, 123288.	3.2	38
9	Compressive strength prediction of rice husk ash using multiphysics genetic expression programming. Ain Shams Engineering Journal, 2022, 13, 101593.	3.5	32
10	Structural equation modelling of construction project performance based on coordination factors. Cogent Engineering, 2020, 7, 1726069.	1.1	31
11	Systematic Review of Life Cycle Assessment and Life Cycle Cost Analysis for Pavement and a Case Study. Sustainability, 2021, 13, 4377.	1.6	31
12	Evolution of close-range detection and data acquisition technologies towards automation in construction progress monitoring. Journal of Building Engineering, 2021, 43, 102877.	1.6	31
13	The Effect of Inflation Rate on CO_2 Emission: A Framework for Malaysian Construction Industry. Sustainability, 2021, 13, 1562.	1.6	30
14	A Bibliometric Analysis and Review of Building Information Modelling for Post-Disaster Reconstruction. Sustainability, 2022, 14, 393.	1.6	30
15	Life Cycle Impact Assessment of Recycled Aggregate Concrete, Geopolymer Concrete, and Recycled Aggregate-Based Geopolymer Concrete. Sustainability, 2021, 13, 13515.	1.6	30
16	Mechanical and Thermal Properties of Interlocking Bricks Utilizing Wasted Polyethylene Terephthalate. International Journal of Concrete Structures and Materials, 2020, 14, .	1.4	29
17	Mechanical and deformation properties of rubberized engineered cementitious composite (ECC). Case Studies in Construction Materials, 2020, 13, e00385.	0.8	28
18	Artificial Neural Network (ANN) and Finite Element (FEM) Models for GFRP-Reinforced Concrete Columns under Axial Compression. Materials, 2021, 14, 7172.	1.3	28

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19	Predicting the Ultimate Axial Capacity of Uniaxially Loaded CFST Columns Using Multiphysics Artificial Intelligence. Materials, 2022, 15, 39.	1.3	27
20	Forecasting Strength of CFRP Confined Concrete Using Multi Expression Programming. Materials, 2021, 14, 7134.	1.3	25
21	A Comparison Between Seasonal Autoregressive Integrated Moving Average (SARIMA) and Exponential Smoothing (ES) Based on Time Series Model for Forecasting Road Accidents. Arabian Journal for Science and Engineering, 2021, 46, 11113-11138.	1.7	22
22	Investigating the impact of inflation on labour wages in Construction Industry of Malaysia. Ain Shams Engineering Journal, 2021, 12, 1575-1582.	3.5	22
23	Predictive Modeling Approach for Surface Water Quality: Development and Comparison of Machine Learning Models. Sustainability, 2021, 13, 7515.	1.6	21
24	Critical Success Factors Influencing Total Quality Management In Industrialised Building System: A Case Of Malaysian Construction Industry. Ain Shams Engineering Journal, 2023, 14, 101877.	3.5	21
25	Kabul River Flow Prediction Using Automated ARIMA Forecasting: A Machine Learning Approach. Sustainability, 2021, 13, 10720.	1.6	20
26	Consumer Motivation by Using Unified Theory of Acceptance and Use of Technology towards Electric Vehicles. Sustainability, 2021, 13, 12177.	1.6	20
27	Productivity monitoring in building construction projects: a systematic review. Engineering, Construction and Architectural Management, 2022, 29, 2760-2785.	1.8	19
28	Life Cycle Cost Analysis Comparison of Hot Mix Asphalt and Reclaimed Asphalt Pavement: A Case Study. Sustainability, 2021, 13, 4411.	1.6	18
29	Factors impacting the implementation process of automated construction progress monitoring. Ain Shams Engineering Journal, 2022, 13, 101808.	3.5	17
30	Utilizing of oil shale ash as a construction material: A systematic review. Construction and Building Materials, 2021, 299, 123844.	3.2	16
31	Chemical attack on concrete containing a high volume of crumb rubber as a partial replacement for fine aggregate in engineered cementitious composite (ECC). Canadian Journal of Civil Engineering, 2022, 49, 11-17.	0.7	15
32	Investigation on Hamburg Wheel-Tracking Device Stripping Performance Properties of Recycled Hot-Mix Asphalt Mixtures. Materials, 2020, 13, 4704.	1.3	14
33	Change Order Impact on Construction Industry of Pakistan. Lecture Notes in Civil Engineering, 2020, , 391-402.	0.3	14
34	Implications of Machine Learning Integrated Technologies for Construction Progress Detection Under Industry 4.0 (IR 4.0). , 2020, , .		14
35	Multigene Expression Programming Based Forecasting the Hardened Properties of Sustainable Bagasse Ash Concrete. Materials, 2021, 14, 5659.	1.3	13
36	Influential Safety Performance and Assessment in Construction Projects: A Review. Lecture Notes in Civil Engineering, 2020, , 719-728.	0.3	12

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37	FE Modelling and Analysis of Beam Column Joint Using Reactive Powder Concrete. Crystals, 2021, 11, 1372.	1.0	12
38	Effect of Quarry Rock Dust as a Binder on the Properties of Fly Ash and Slag-Based Geopolymer Concrete Exposed to Ambient and Elevated Temperatures. Applied Sciences (Switzerland), 2021, 11, 9192.	1.3	11
39	Mechanical and Microstructural Characterization of Quarry Rock Dust Incorporated Steel Fiber Reinforced Geopolymer Concrete and Residual Properties after Exposure to Elevated Temperatures. Materials, 2021, 14, 6890.	1.3	11
40	Assessing Rainwater Harvesting Potential in Urban Areas: A Building Information Modelling (BIM) Approach. Sustainability, 2021, 13, 12583.	1.6	11
41	Assessment of Economic Sustainability in the Construction Sector: Evidence from Three Developed Countries (the USA, China, and the UK). Sustainability, 2022, 14, 6326.	1.6	11
42	Axial Compressive Strength Models of Eccentrically-Loaded Rectangular Reinforced Concrete Columns Confined with FRP. Materials, 2021, 14, 3498.	1.3	10
43	Life Cycle Cost Assessment of Offshore Wind Farm: Kudat Malaysia Case. Sustainability, 2021, 13, 7943.	1.6	10
44	Digital Transformation of the Construction Industry: A Review. , 2021, , .		10
45	Impact of Zero Energy Building: Sustainability Perspective. , 0, , .		8
46	Thickness Optimization of Thin-Film Tandem Organic Solar Cell. Micromachines, 2021, 12, 518.	1.4	8
47	Are Pakistani construction professionals truly happy? A benchmarking approach. Ain Shams Engineering Journal, 2021, 12, 3579-3591.	3.5	7
48	Reducing cooling load and lifecycle cost for residential buildings: a case of Lahore, Pakistan. International Journal of Life Cycle Assessment, 2021, 26, 2355-2374.	2.2	7
49	Self-Healing Nano-Concrete for Futuristic Infrastructures: A Review. Arabian Journal for Science and Engineering, 2022, 47, 5365-5375.	1.7	7
50	Impact of Communication on Site Accidents Prevention: A Review. , 2021, , .		7
51	Reviewing the Applications of Internet of Things in Construction Projects. , 2022, , .		7
52	Role of Inflation in Construction: A Systematic Review. Lecture Notes in Civil Engineering, 2021, , 701-708.	0.3	6
53	BIM Implication of Life Cycle Cost Analysis in Construction Project: A Systematic Review. , 2020, , .		6
54	Automated Monitoring For Construction Productivity Recognition. , 2021, , .		6

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55	Marble Dust Effect on the Air Quality: An Environmental Assessment Approach. Sustainability, 2022, 14, 3831.	1.6	6
56	Impact of the COVID-19 Pandemic on Construction Industry in Malaysia. , 2021, , .		6
57	Value Analysis in Construction Projects with BIM implementation: A Systematic Review. , 2021, , .		6
58	Materializing Low-Cost Energy-Efficient Residential Utility through Effective Space Design and Masonry Technique - A Practical Approach. Civil Engineering and Architecture, 2021, 9, 357-374.	0.2	5
59	Inflation rate and labours' wages in construction projects: economic relation investigation. Engineering, Construction and Architectural Management, 2022, 29, 2461-2494.	1.8	5
60	A GIS-Based Groundwater Contamination Assessment Using Modified DRASTIC Geospatial Technique. Water (Switzerland), 2021, 13, 2868.	1.2	5
61	Influence of Internal Workforce Diversity Factors on Labor Productivity in Construction Projects: Empirical Evidence from Pakistan. , 2020, , .		5
62	Effect of Graphene Oxide on Mechanical Properties of Rubberized Concrete: A Review. Lecture Notes in Civil Engineering, 2021, , 484-492.	0.3	4
63	Factors influencing the Pro-Environmental Behavior of Construction Workers. , 2020, , .		4
64	Inflation Rate and Construction Materials Prices: Relationship Investigation. , 2020, , .		4
65	Concrete by Preplaced Aggregate Method Using Silica Fume and Polypropylene Fibres. Materials, 2022, 15, 1997.	1.3	4
66	Green Human Resource Practices on Pro-environmental behaviour of workers: Case of Pakistani construction industry. , 2021, , .		4
67	Evaluation of Biases in Construction Project Dispute Resolution: Case Study. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, .	0.9	3
68	Performance Evaluation of Rutting and Moisture Damage containing Warm Mix Asphalt Mixtures with Recycled Asphalt pavement. , 2020, , .		3
69	Influence of External Workforce Diversity Factors on Labor Productivity in Construction Projects: Empirical Evidence from Pakistan. , 2020, , .		3
70	Hempcrete as a Sustainable Building Material: A Review. , 2021, , .		3
71	Intrinsic Workforce Diversity and Construction Worker Productivity in Pakistan: Impact of Employee Age and Industry Experience. Sustainability, 2022, 14, 232.	1.6	3
72	Indicators of injury severity of truck crashes using random parameter logit modeling. , 2021, , .		3

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73	Efficiency of multiple hybrid techniques for the earthquake physical susceptibility mapping: the case of Abbottabad District, Pakistan. Environmental Earth Sciences, 2021, 80, 1.	1.3	2
74	ASSESSMENT OF LABOUR PRODUCTIVITY IN ROAD CONSTRUCTION PROJECTS OF PAKISTAN. Journal of Civil Engineering Science and Technology, 2021, 12, 32-38.	0.5	2
75	Axial Behavior of Concrete-Filled Double-Skin Tubular Stub Columns Incorporating PVC Pipes. Crystals, 2021, 11, 1434.	1.0	2
76	Optimized Thin-Film Organic Solar Cell with Enhanced Efficiency. Sustainability, 2021, 13, 13087.	1.6	2
77	INFLUENCE OF INFLATION RATE ON MACHINERY HIRE RATES IN CONSTRUCTION INDUSTRY. Journal of Civil Engineering Science and Technology, 2021, 12, 39-45.	0.5	2
78	Concrete filled double steel tube columns incorporating UPVC pipes under uniaxial compressive load at ambient and elevated temperature. Case Studies in Construction Materials, 2022, 16, e00907.	0.8	2
79	Construction machinery hire rates deviation in Malaysia: an inflation rate effect analysis. , 2021, 20, 91-105.		1
80	Impact of Elevated Temperature on Rubberized Concrete: A Review. Lecture Notes in Civil Engineering, 2021, , 421-427.	0.3	1
81	Delay and Cost Overrun of Palm Oil Refinery Construction Projects: Artificial Neural Network (ANN) Model. Lecture Notes in Civil Engineering, 2021, , 580-589.	0.3	1
82	Computational Modelling and Analysis of Fullerene Based Polymer Solar Cell. , 2020, , .		1
83	Rat Trap Bond: A state of review. , 2020, , .		1
84	Automation in Traffic Engineering to Prevent Road Accidents: A Review. , 2021, , .		1