Afaq Ahmad

List of Publications by Year
in descending order

29 papers	445 citations	758635 12 h-index	752256 20 g-index
29 all docs	29 docs citations	29 times ranked	223 citing authors

#	Article	IF	Citations
1	Reliability analysis of models for predicting T-beam response at ultimate limit response. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2023, 176, 28-50.	0.4	5
2	An alternative approach for measuring the mechanical properties of hybrid concrete through image processing and machine learning. Construction and Building Materials, 2022, 328, 126899.	3.2	14
3	Mechanical and microstructural performance of concrete containing high-volume of bagasse ash and silica fume. Scientific Reports, 2022, 12, 5719.	1.6	15
4	Pothole Detection Using Deep Learning: A Real-Time and AI-on-the-Edge Perspective. Advances in Civil Engineering, 2022, 2022, 1-13.	0.4	23
5	Prediction of columns with GFRP bars through Artificial Neural Network and ABAQUS. Structures, 2022, 40, 247-255.	1.7	3
6	Simulation of Quantity and Quality of Saq Aquifer Using Artificial Intelligence and Hydraulic Models. Advances in Civil Engineering, 2022, 2022, 1-22.	0.4	1
7	Experimental and Numerical Investigation of Transverse Circular Holes on Load-Carrying Capacity of RC Columns. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 683-696.	1.0	1
8	Energy dissipation characteristics of retrofitted damaged low-strength concrete bridge pier. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2021, 174, 148-156.	0.3	1
9	Investigation of HFRC columns reinforced with GFRP bars and spirals under concentric and eccentric loadings. Engineering Structures, 2021, 227, 111461.	2.6	36
10	Advance repairing technique for enhancement of stiffness of post-heated concrete cylinders. Asian Journal of Civil Engineering, 2021, 22, 689-700.	0.8	2
11	Experimental and finite element analysis of hybrid fiber reinforced concrete two-way slabs at ultimate limit state. SN Applied Sciences, 2021, 3, 1.	1.5	0
12	Simulation of Pan-Evaporation Using Penman and Hamon Equations and Artificial Intelligence Techniques. Water (Switzerland), 2021, 13, 793.	1.2	8
13	Automated Assessment of Lymphocytes Using Machine Learning Techniques. , 2021, , .		1
14	Neural Network-Based Prediction: The Case of Reinforced Concrete Members under Simple and Complex Loading. Applied Sciences (Switzerland), 2021, 11, 4975.	1.3	7
15	Knowledge-Based Prediction of Load-Carrying Capacity of RC Flat Slab through Neural Network and FEM. Mathematical Problems in Engineering, 2021, 2021, 1-18.	0.6	2
16	Reliability analysis of strength models for short-concrete columns under concentric loading with FRP rebars through Artificial Neural Network. Journal of Building Engineering, 2021, 42, 102497.	1.6	18
17	Reappraisal of methods for calculating flexural capacity of reinforced concrete members. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2020, 173, 279-290.	0.4	8
18	Generalized finite element method with time-independent enrichment functions for 3D transient heat diffusion problems. International Journal of Heat and Mass Transfer, 2020, 149, 118969.	2.5	10

#	Article	IF	Citations
19	Prediction of Properties of FRP-Confined Concrete Cylinders Based on Artificial Neural Networks. Crystals, 2020, 10, 811.	1.0	24
20	Experimental and numerical investigation of T-joint enhanced confinement using flat steel strips. Asian Journal of Civil Engineering, 2020, 21, 1483-1492.	0.8	0
21	Evaluating the Impacts of Pumping on Aquifer Depletion in Arid Regions Using MODFLOW, ANFIS and ANN. Water (Switzerland), 2020, 12, 2297.	1.2	19
22	Prediction of Axial Compressive Strength for FRP-Confined Concrete Compression Members. KSCE Journal of Civil Engineering, 2020, 24, 2099-2109.	0.9	34
23	Relating groundwater levels with meteorological parameters using ANN technique. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108163.	2.5	33
24	Framework for the development of artificial neural networks for predicting the load carrying capacity of RC members. SN Applied Sciences, 2020, 2, 1.	1.5	14
25	Reliability analysis of strength models for CFRP-confined concrete cylinders. Composite Structures, 2020, 244, 112312.	3.1	60
26	Numerical Investigation of Load-Carrying Capacity of GFRP-Reinforced Rectangular Concrete Members Using CDP Model in ABAQUS. Advances in Civil Engineering, 2019, 2019, 1-21.	0.4	78
27	Assessing the accuracy of RC design code predictions through the use of artificial neural networks. International Journal of Advanced Structural Engineering, 2018, 10, 349-365.	1.3	22
28	Seismic Evaluation of Repaired and Retrofitted Circular Bridge Piers of Low-Strength Concrete. Arabian Journal for Science and Engineering, 2015, 40, 3057-3066.	1.1	5
29	Performance of variously shaped glass-fibre-reinforced polymer bars in concrete columns. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 0, , 1-40.	0.4	1