

# Afaq Ahmad

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Numerical Investigation of Load-Carrying Capacity of GFRP-Reinforced Rectangular Concrete Members Using CDP Model in ABAQUS. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-21.	0.4	78
2	Reliability analysis of strength models for CFRP-confined concrete cylinders. <i>Composite Structures</i> , 2020, 244, 112312.	3.1	60
3	Investigation of HFRC columns reinforced with GFRP bars and spirals under concentric and eccentric loadings. <i>Engineering Structures</i> , 2021, 227, 111461.	2.6	36
4	Prediction of Axial Compressive Strength for FRP-Confined Concrete Compression Members. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 2099-2109.	0.9	34
5	Relating groundwater levels with meteorological parameters using ANN technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108163.	2.5	33
6	Prediction of Properties of FRP-Confined Concrete Cylinders Based on Artificial Neural Networks. <i>Crystals</i> , 2020, 10, 811.	1.0	24
7	Pothole Detection Using Deep Learning: A Real-Time and AI-on-the-Edge Perspective. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-13.	0.4	23
8	Assessing the accuracy of RC design code predictions through the use of artificial neural networks. <i>International Journal of Advanced Structural Engineering</i> , 2018, 10, 349-365.	1.3	22
9	Evaluating the Impacts of Pumping on Aquifer Depletion in Arid Regions Using MODFLOW, ANFIS and ANN. <i>Water (Switzerland)</i> , 2020, 12, 2297.	1.2	19
10	Reliability analysis of strength models for short-concrete columns under concentric loading with FRP rebars through Artificial Neural Network. <i>Journal of Building Engineering</i> , 2021, 42, 102497.	1.6	18
11	Mechanical and microstructural performance of concrete containing high-volume of bagasse ash and silica fume. <i>Scientific Reports</i> , 2022, 12, 5719.	1.6	15
12	Framework for the development of artificial neural networks for predicting the load carrying capacity of RC members. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	14
13	An alternative approach for measuring the mechanical properties of hybrid concrete through image processing and machine learning. <i>Construction and Building Materials</i> , 2022, 328, 126899.	3.2	14
14	Generalized finite element method with time-independent enrichment functions for 3D transient heat diffusion problems. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 118969.	2.5	10
15	Reappraisal of methods for calculating flexural capacity of reinforced concrete members. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2020, 173, 279-290.	0.4	8
16	Simulation of Pan-Evaporation Using Penman and Hamon Equations and Artificial Intelligence Techniques. <i>Water (Switzerland)</i> , 2021, 13, 793.	1.2	8
17	Neural Network-Based Prediction: The Case of Reinforced Concrete Members under Simple and Complex Loading. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4975.	1.3	7
18	Seismic Evaluation of Repaired and Retrofitted Circular Bridge Piers of Low-Strength Concrete. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 3057-3066.	1.1	5

#	ARTICLE	IF	CITATIONS
19	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
20	Prediction of columns with GFRP bars through Artificial Neural Network and ABAQUS. Structures, 2022, 40, 247-255.	1.7	3
21	Advance repairing technique for enhancement of stiffness of post-heated concrete cylinders. Asian Journal of Civil Engineering, 2021, 22, 689-700.	0.8	2
22	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
23	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
24	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
25	Automated Assessment of Lymphocytes Using Machine Learning Techniques. , 2021, , .		1
26	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
27	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
28	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
29	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