

# Ali Raza

## List of Publications by Year in descending order

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88  
papers

1,405  
citations

346980

22  
h-index

488211

31  
g-index

91  
all docs

91  
docs citations

91  
times ranked

609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Life Cycle Impact Assessment (Cradle-to-Gate) of Fiber-Reinforced Concrete Application for Pavement Use: A Case Study of Islamabad City. <i>International Journal of Pavement Research and Technology</i> , 2023, 16, 247-263.	1.3	2
2	Thermal applications of copper oxide, silver, and titanium dioxide nanoparticles via fractional derivative approach. <i>Waves in Random and Complex Media</i> , 2023, 33, 794-807.	1.6	5
3	Prabhakar fractional model for viscous transient fluid with heat and mass transfer and Newtonian heating applications. <i>Waves in Random and Complex Media</i> , 2023, 33, 808-824.	1.6	9
4	Investigation on Self-Sensing Capability of Different Grades of Carbon Black in Cementitious Composites. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2023, 47, 761-774.	1.0	2
5	Rapid repair of partially damaged GFRP-reinforced recycled aggregate concrete columns using FRP composites. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6070-6086.	1.5	12
6	Data-driven analysis of concrete-filled steel-tube CFRP-confined NSC columns. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 5667-5688.	1.5	15
7	Data-oriented analysis of axial capacity of externally CFRP-confined concrete columns transversely reinforced with steel hoops or spirals. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6543-6556.	1.5	4
8	Experiments and numerical simulations of glass fiber reinforced polymers in structural fibers RC members. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6891-6906.	1.5	5
9	Mechanical behavior of electronic waste concrete columns reinforced with structural fibers and glass fiber reinforced polymer bars: Experimental and analytical investigation. <i>Advances in Structural Engineering</i> , 2022, 25, 374-391.	1.2	3
10	Structural evaluation of recycled aggregate concrete circular columns having FRP rebars and synthetic fibers. <i>Engineering Structures</i> , 2022, 250, 113392.	2.6	18
11	Experimental investigation of eco-friendly high strength fiber-reinforced concrete developed with combined incorporation of tyre-steel fiber and fly ash. <i>Construction and Building Materials</i> , 2022, 314, 125626.	3.2	28
12	Experimental study of the mechanical properties and microstructure of geopolymer paste containing nano-silica from agricultural waste and crystalline admixtures. <i>Case Studies in Construction Materials</i> , 2022, 16, e00792.	0.8	23
13	Mechanical performance, water and chloride permeability of hybrid steel-polypropylene fiber-reinforced recycled aggregate concrete. <i>Case Studies in Construction Materials</i> , 2022, 16, e00831.	0.8	13
14	Seismic behavior of Double-Skin tubular E-waste concrete columns transversely confined with steel and GFRP tubes. <i>Composite Structures</i> , 2022, 282, 115076.	3.1	1
15	Glass FRP-Reinforced Geopolymer Based Columns Comprising Hybrid Fibres: Testing and FEA Modelling. <i>Polymers</i> , 2022, 14, 324.	2.0	7
16	Transport properties of mixed convective nano-material flow considering the generalized fourier law and a vertical surface: Concept of caputo-time fractional derivative. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2022, 236, 974-984.	0.8	8
17	Mechanical Performance of Geopolymer Composites Containing Nano-Silica and Micro-Carbon Fibers. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 12621-12632.	1.7	7
18	New Antifriction Composites for Printing Machines Based on Tool Steel Grinding Waste. <i>Sustainability</i> , 2022, 14, 2799.	1.6	2

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19	Data-driven analysis on axial strength of GFRP-NSC columns based on practical artificial neural network tool. <i>Composite Structures</i> , 2022, 291, 115598.	3.1	6
20	Applications of Prabhakar-like Fractional Derivative for the Solution of Viscous Type Fluid with Newtonian Heating Effect. <i>Fractal and Fractional</i> , 2022, 6, 265.	1.6	8
21	Heat transfer enhancement for slip flow of single-walled and multi-walled carbon nanotubes due to linear inclined surface by using modified Prabhakar fractional approach. <i>Archive of Applied Mechanics</i> , 2022, 92, 2455-2465.	1.2	11
22	Enhancement of mechanical and toughness properties of carbon fiber-reinforced geopolymer pastes comprising nano calcium oxide. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 1375-1387.	1.1	11
23	A scientometric review on mechanical and durability performance of geopolymer Paste: Effect of various raw materials. <i>Construction and Building Materials</i> , 2022, 345, 128297.	3.2	16
24	Effect of different fibers (steel fibers, glass fibers, and carbon fibers) on mechanical properties of reactive powder concrete. <i>Structural Concrete</i> , 2021, 22, 334-346.	1.5	52
25	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
26	Structural Performance of Steel-Tube Concrete Columns Confined with CFRPs: Numerical and Theoretical Study. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 1575-1592.	1.0	4
27	Axial performance of hybrid fiber reinforced concrete columns having GFRP longitudinal bars and spirals. <i>Journal of Building Engineering</i> , 2021, 35, 102017.	1.6	8
28	Mechanical and durability behavior of recycled aggregate concrete made with different kinds of wastewater. <i>Journal of Building Engineering</i> , 2021, 34, 101950.	1.6	10
29	Axial performance of GFRP composite bars and spirals in circular hollow concrete columns. <i>Structures</i> , 2021, 29, 600-613.	1.7	10
30	Axial compressive behavior of damaged steel and GFRP bars reinforced concrete columns retrofitted with CFRP laminates. <i>Composite Structures</i> , 2021, 258, 113206.	3.1	31
31	Structural Behavior of GFRP-Reinforced Circular HFRC Columns Under Concentric and Eccentric Loading. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 4239-4252.	1.7	15
32	Efficiency of GFRP bars and hoops in recycled aggregate concrete columns: Experimental and numerical study. <i>Composite Structures</i> , 2021, 255, 112986.	3.1	31
33	Experimental and finite element analysis of hybrid fiber reinforced concrete two-way slabs at ultimate limit state. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	0
34	Effect of sulfate activation of fly ash on mechanical and durability properties of recycled aggregate concrete. <i>Construction and Building Materials</i> , 2021, 277, 122329.	3.2	21
35	Strength Profile Pattern of FRP-Reinforced Concrete Structures: A Performance Analysis through Finite Element Analysis and Empirical Modeling Technique. <i>Polymers</i> , 2021, 13, 1265.	2.0	7
36	On the Structural Performance of Recycled Aggregate Concrete Columns with Glass Fiber-Reinforced Composite Bars and Hoops. <i>Polymers</i> , 2021, 13, 1508.	2.0	14

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37	HVdc Circuit Breakers: Prospects and Challenges. Applied Sciences (Switzerland), 2021, 11, 5047.	1.3	15
38	Structural behavior of GFRP reinforced recycled aggregate concrete columns with polyvinyl alcohol and polypropylene fibers. Advances in Structural Engineering, 2021, 24, 3043-3056.	1.2	6
39	Meta-heuristic-based offloading task optimization in mobile edge computing. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110230.	1.3	9
40	Utilization of Polymer Concrete Composites for a Circular Economy: A Comparative Review for Assessment of Recycling and Waste Utilization. Polymers, 2021, 13, 2135.	2.0	18
41	Performance evaluation of hybrid fiber reinforced low strength concrete cylinders confined with CFRP wraps. Structures, 2021, 31, 182-189.	1.7	8
42	An UAV-assisted VANET architecture for intelligent transportation system in smart cities. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110317.	1.3	39
43	Concentrically loaded recycled aggregate geopolymer concrete columns reinforced with GFRP bars and spirals. Composite Structures, 2021, 268, 113968.	3.1	44
44	Filter Extracted Sliding Mode Approach for DC Microgrids. Electronics (Switzerland), 2021, 10, 1882.	1.8	4
45	Effect of nano SiO <sub>2</sub> on mechanical properties of micro-steel fibers reinforced geopolymer composites. Ceramics International, 2021, 47, 33444-33453.	2.3	51
46	Analytical review on common and state-of-the-art FR strategies for VSC-MTDC integrated offshore wind power plants. Renewable and Sustainable Energy Reviews, 2021, 148, 111106.	8.2	16
47	Structural assessment of eccentrically loaded GFRP reinforced circular concrete columns: Experiments and finite element analysis. Composite Structures, 2021, 275, 114528.	3.1	15
48	Experimental investigation on the mechanical and fracture evaluation of carbon Fiber-Reinforced cementitious composites with Nano-Calcium carbonate. Construction and Building Materials, 2021, 308, 125095.	3.2	18
49	Tests of polypropylene macro synthetic fibers and GFRP reinforced concrete columns subjected to concentric and eccentric loading. Journal of Building Engineering, 2021, 43, 103100.	1.6	1
50	Mechanical, Fracture, and Microstructural Assessment of Carbon-Fiber-Reinforced Geopolymer Composites Containing Na <sub>2</sub> O. Polymers, 2021, 13, 3852.	2.0	25
51	Artificial Neural Network (ANN) and Finite Element (FEM) Models for GFRP-Reinforced Concrete Columns under Axial Compression. Materials, 2021, 14, 7172.	1.3	28
52	Classification of Pulmonary Viruses X-ray and Detection of COVID-19 Based on Invariant of Inception-V3 Deep Learning Model. , 2021, , .		3
53	A New Dual Polarity Direct AC-AC Voltage Regulator Ensuring Voltage Step-Up and Step-Down Capabilities. Applied Sciences (Switzerland), 2021, 11, 11944.	1.3	2
54	Technical Assessment of Hybrid HVDC Circuit Breaker Components under M-HVDC Faults. Energies, 2021, 14, 8148.	1.6	11

#	ARTICLE	IF	CITATIONS
55	Deep Learning Based Intelligent Classification Of Covid-19 & Pneumonia Using Cough Auscultations. , 2021, , .		0
56	Deep learning based Intelligent Emotion Recognition and Classification System. , 2021, , .		2
57	Identification of Leaf Diseases in Potato Crop Using Deep Convolutional Neural Networks (DCNNs). , 2021, , .		5
58	Classification of Eye Diseases and Detection of Cataract using Digital Fundus Imaging (DFI) and Inception-V4 Deep Learning Model. , 2021, , .		8
59	Detecting False rRT-PCR COVID-19 Test Reports using Deep Learning Algorithms. , 2021, 6, 1-5.		0
60	Sustainable FRP-Confined Symmetric Concrete Structures: An Application Experimental and Numerical Validation Process for Reference Data. Applied Sciences (Switzerland), 2020, 10, 333.	1.3	33
61	Prediction of axial load-carrying capacity of GFRP-reinforced concrete columns through artificial neural networks. Structures, 2020, 28, 1557-1571.	1.7	31
62	Performance evaluation of concrete developed using various types of wastewater: A step towards sustainability. Construction and Building Materials, 2020, 262, 120608.	3.2	13
63	Structural performance of FRP-RC compression members wrapped with FRP composites. Structures, 2020, 27, 1693-1709.	1.7	31
64	Experimental and theoretical study of GFRP hoops and spirals in hybrid fiber reinforced concrete short columns. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	1.3	17
65	Numerical Simulations of GFRP-Reinforced Columns Having Polypropylene and Polyvinyl Alcohol Fibers. Complexity, 2020, 2020, 1-14.	0.9	6
66	Enhancing the Hardened Properties of Recycled Concrete (RC) through Synergistic Incorporation of Fiber Reinforcement and Silica Fume. Materials, 2020, 13, 4112.	1.3	32
67	Evaluation of human brain hyperthermia using exergy balance equation. Journal of Thermal Biology, 2020, 93, 102723.	1.1	0
68	Effect of Varying Steel Fiber Content on Strength and Permeability Characteristics of High Strength Concrete with Micro Silica. Materials, 2020, 13, 5739.	1.3	53
69	Prediction of Axial Compressive Strength for FRP-Confined Concrete Compression Members. KSCE Journal of Civil Engineering, 2020, 24, 2099-2109.	0.9	34
70	Mechanical Properties of Hybrid Steel-Glass Fiber-Reinforced Reactive Powder Concrete After Exposure to Elevated Temperatures. Arabian Journal for Science and Engineering, 2020, 45, 4285-4300.	1.7	24
71	Experimental and numerical behavior of hybrid-fiber-reinforced concrete compression members under concentric loading. SN Applied Sciences, 2020, 2, 1.	1.5	26
72	Mechanical, durability and economic performance of concrete incorporating fly ash and recycled aggregates. SN Applied Sciences, 2020, 2, 1.	1.5	23

#	ARTICLE	IF	CITATIONS
73	Circular Polarized Re-Configurable Patch Antenna for Futuristic Wireless Communication. , 2020, , .		0
74	Reliability analysis of strength models for CFRP-confined concrete cylinders. Composite Structures, 2020, 244, 112312.	3.1	60
75	Finite element modelling and theoretical predictions of FRP-reinforced concrete columns confined with various FRP-tubes. Structures, 2020, 26, 626-638.	1.7	60
76	Deep Foundation Testing using Immunity-based Displacement Measurement in Successive-Sparse Images. KSCE Journal of Civil Engineering, 2019, 23, 4212-4222.	0.9	0
77	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
78	Influence of Glass Fibers on Mechanical Properties of Concrete with Recycled Coarse Aggregates. Civil Engineering Journal (Iran), 2019, 5, 1007-1019.	1.2	38
79	Towards the development of robot immune system: A combined approach involving innate immune cells and T-lymphocytes. BioSystems, 2018, 172, 52-67.	0.9	8
80	Development of adjustable stiffness actuator by varying lever arm length. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2017, 40, 651-658.	0.6	3
81	LONG-TERM EFFECTIVENESS OF LINING TERTIARY CANALS IN THE INDUS BASIN OF PAKISTAN. Irrigation and Drainage, 2013, 62, 16-24.	0.8	8
82	Fabrication and evaluation of a portable long-throated flume. Irrigation and Drainage, 2007, 56, 565-575.	0.8	2
83	Axial Load-carrying Capacity of Steel Tubed Concrete Short Columns Confined with Advanced FRP Composites. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	8
84	Compressive Strength of FRP-Reinforced and Confined Concrete Columns. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 0, , 1.	1.0	2
85	Seismic behaviour of concrete bridge piers with various types of transverse reinforcement. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 0, , 1-12.	0.4	1
86	Thermal transport model for Brinkman type nanofluid containing carbon nanotubes with sinusoidal oscillations conditions: a fractional derivative concept. Waves in Random and Complex Media, 0, , 1-20.	1.6	12
87	The compressive and tensile behavior of polypropylene fibers and activated fly ash incorporated concrete at elevated temperatures. European Journal of Environmental and Civil Engineering, 0, , 1-18.	1.0	3
88	Prabhakar fractional simulations for hybrid nanofluid with aluminum oxide, titanium oxide and copper nanoparticles along with blood base fluid. Waves in Random and Complex Media, 0, , 1-20.	1.6	5