

Ali Raza

List of Publications by Year in descending order

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88
papers

1,405
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304743

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91
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546
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.	0.7	78
2	Reliability analysis of strength models for CFRP-confined concrete cylinders. <i>Composite Structures</i> , 2020, 244, 112312.	5.8	60
3	Finite element modelling and theoretical predictions of FRP-reinforced concrete columns confined with various FRP-tubes. <i>Structures</i> , 2020, 26, 626-638.	3.6	60
4	Effect of Varying Steel Fiber Content on Strength and Permeability Characteristics of High Strength Concrete with Micro Silica. <i>Materials</i> , 2020, 13, 5739.	2.9	53
5	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.	3.1	52
6	Effect of nano SiO ₂ on mechanical properties of micro-steel fibers reinforced geopolymer composites. <i>Ceramics International</i> , 2021, 47, 33444-33453.	4.8	51
7	Concentrically loaded recycled aggregate geopolymer concrete columns reinforced with GFRP bars and spirals. <i>Composite Structures</i> , 2021, 268, 113968.	5.8	44
8	An UAV-assisted VANET architecture for intelligent transportation system in smart cities. <i>International Journal of Distributed Sensor Networks</i> , 2021, 17, 155014772110317.	2.2	39
9	Influence of Glass Fibers on Mechanical Properties of Concrete with Recycled Coarse Aggregates. <i>Civil Engineering Journal (Iran)</i> , 2019, 5, 1007-1019.	3.9	38
10	Investigation of HFRC columns reinforced with GFRP bars and spirals under concentric and eccentric loadings. <i>Engineering Structures</i> , 2021, 227, 111461.	5.3	36
11	Prediction of Axial Compressive Strength for FRP-Confined Concrete Compression Members. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 2099-2109.	1.9	34
12	Sustainable FRP-Confined Symmetric Concrete Structures: An Application Experimental and Numerical Validation Process for Reference Data. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 333.	2.5	33
13	Enhancing the Hardened Properties of Recycled Concrete (RC) through Synergistic Incorporation of Fiber Reinforcement and Silica Fume. <i>Materials</i> , 2020, 13, 4112.	2.9	32
14	Prediction of axial load-carrying capacity of GFRP-reinforced concrete columns through artificial neural networks. <i>Structures</i> , 2020, 28, 1557-1571.	3.6	31
15	Structural performance of FRP-RC compression members wrapped with FRP composites. <i>Structures</i> , 2020, 27, 1693-1709.	3.6	31
16	Axial compressive behavior of damaged steel and GFRP bars reinforced concrete columns retrofitted with CFRP laminates. <i>Composite Structures</i> , 2021, 258, 113206.	5.8	31
17	Efficiency of GFRP bars and hoops in recycled aggregate concrete columns: Experimental and numerical study. <i>Composite Structures</i> , 2021, 255, 112986.	5.8	31
18	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.	7.2	28

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19	Artificial Neural Network (ANN) and Finite Element (FEM) Models for GFRP-Reinforced Concrete Columns under Axial Compression. <i>Materials</i> , 2021, 14, 7172.	2.9	28
20	Experimental and numerical behavior of hybrid-fiber-reinforced concrete compression members under concentric loading. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	26
21	Mechanical, Fracture, and Microstructural Assessment of Carbon-Fiber-Reinforced Geopolymer Composites Containing Na ₂ O. <i>Polymers</i> , 2021, 13, 3852.	4.5	25
22	Mechanical Properties of Hybrid Steel-Glass Fiber-Reinforced Reactive Powder Concrete After Exposure to Elevated Temperatures. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 4285-4300.	3.0	24
23	Mechanical, durability and economic performance of concrete incorporating fly ash and recycled aggregates. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	23
24	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.	1.7	23
25	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.	7.2	21
26	Utilization of Polymer Concrete Composites for a Circular Economy: A Comparative Review for Assessment of Recycling and Waste Utilization. <i>Polymers</i> , 2021, 13, 2135.	4.5	18
27	Experimental investigation on the mechanical and fracture evaluation of carbon Fiber-Reinforced cementitious composites with Nano-Calcium carbonate. <i>Construction and Building Materials</i> , 2021, 308, 125095.	7.2	18
28	Structural evaluation of recycled aggregate concrete circular columns having FRP rebars and synthetic fibers. <i>Engineering Structures</i> , 2022, 250, 113392.	5.3	18
29	Experimental and theoretical study of GFRP hoops and spirals in hybrid fiber reinforced concrete short columns. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	3.1	17
30	Analytical review on common and state-of-the-art FR strategies for VSC-MTDC integrated offshore wind power plants. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111106.	16.4	16
31	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.	7.2	16
32	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.	3.0	15
33	HVdc Circuit Breakers: Prospects and Challenges. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5047.	2.5	15
34	Data-driven analysis of concrete-filled steel-tube CFRP-confined NSC columns. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 5667-5688.	2.6	15
35	Structural assessment of eccentrically loaded GFRP reinforced circular concrete columns: Experiments and finite element analysis. <i>Composite Structures</i> , 2021, 275, 114528.	5.8	15
36	On the Structural Performance of Recycled Aggregate Concrete Columns with Glass Fiber-Reinforced Composite Bars and Hoops. <i>Polymers</i> , 2021, 13, 1508.	4.5	14

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37	Performance evaluation of concrete developed using various types of wastewater: A step towards sustainability. <i>Construction and Building Materials</i> , 2020, 262, 120608.	7.2	13
38	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.	1.7	13
39	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.	2.6	12
40	Thermal transport model for Brinkman type nanofluid containing carbon nanotubes with sinusoidal oscillations conditions: a fractional derivative concept. <i>Waves in Random and Complex Media</i> , 0, , 1-20.	2.7	12
41	Technical Assessment of Hybrid HVDC Circuit Breaker Components under M-HVDC Faults. <i>Energies</i> , 2021, 14, 8148.	3.1	11
42	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.	2.2	11
43	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.	1.9	11
44	Mechanical and durability behavior of recycled aggregate concrete made with different kinds of wastewater. <i>Journal of Building Engineering</i> , 2021, 34, 101950.	3.4	10
45	Axial performance of GFRP composite bars and spirals in circular hollow concrete columns. <i>Structures</i> , 2021, 29, 600-613.	3.6	10
46	Meta-heuristic-based offloading task optimization in mobile edge computing. <i>International Journal of Distributed Sensor Networks</i> , 2021, 17, 155014772110230.	2.2	9
47	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.	2.7	9
48	LONG-TERM EFFECTIVENESS OF LINING TERTIARY CANALS IN THE INDUS BASIN OF PAKISTAN. <i>Irrigation and Drainage</i> , 2013, 62, 16-24.	1.7	8
49	Towards the development of robot immune system: A combined approach involving innate immune cells and T-lymphocytes. <i>BioSystems</i> , 2018, 172, 52-67.	2.0	8
50	Axial Load-carrying Capacity of Steel Tubed Concrete Short Columns Confined with Advanced FRP Composites. <i>Periodica Polytechnica: Civil Engineering</i> , 0, , .	0.6	8
51	Axial performance of hybrid fiber reinforced concrete columns having GFRP longitudinal bars and spirals. <i>Journal of Building Engineering</i> , 2021, 35, 102017.	3.4	8
52	Performance evaluation of hybrid fiber reinforced low strength concrete cylinders confined with CFRP wraps. <i>Structures</i> , 2021, 31, 182-189.	3.6	8
53	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.	1.4	8
54	Classification of Eye Diseases and Detection of Cataract using Digital Fundus Imaging (DFI) and Inception-V4 Deep Learning Model. , 2021, , .		8

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55	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.	3.3	8
56	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.	4.5	7
57	Glass FRP-Reinforced Geopolymer Based Columns Comprising Hybrid Fibres: Testing and FEA Modelling. <i>Polymers</i> , 2022, 14, 324.	4.5	7
58	Mechanical Performance of Geopolymer Composites Containing Nano-Silica and Micro-Carbon Fibers. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 12621-12632.	3.0	7
59	Numerical Simulations of GFRP-Reinforced Columns Having Polypropylene and Polyvinyl Alcohol Fibers. <i>Complexity</i> , 2020, 2020, 1-14.	1.6	6
60	Structural behavior of GFRP reinforced recycled aggregate concrete columns with polyvinyl alcohol and polypropylene fibers. <i>Advances in Structural Engineering</i> , 2021, 24, 3043-3056.	2.4	6
61	Data-driven analysis on axial strength of GFRP-NSC columns based on practical artificial neural network tool. <i>Composite Structures</i> , 2022, 291, 115598.	5.8	6
62	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.	2.6	5
63	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.	2.7	5
64	Identification of Leaf Diseases in Potato Crop Using Deep Convolutional Neural Networks (DCNNs). , 2021, , .		5
65	Prabhakar fractional simulations for hybrid nanofluid with aluminum oxide, titanium oxide and copper nanoparticles along with blood base fluid. <i>Waves in Random and Complex Media</i> , 0, , 1-20.	2.7	5
66	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.	1.9	4
67	Filter Extracted Sliding Mode Approach for DC Microgrids. <i>Electronics (Switzerland)</i> , 2021, 10, 1882.	3.1	4
68	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.	2.6	4
69	Development of adjustable stiffness actuator by varying lever arm length. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2017, 40, 651-658.	1.1	3
70	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.	2.4	3
71	Classification of Pulmonary Viruses X-ray and Detection of COVID-19 Based on Invariant of Inception-V3 Deep Learning Model. , 2021, , .		3
72	The compressive and tensile behavior of polypropylene fibers and activated fly ash incorporated concrete at elevated temperatures. <i>European Journal of Environmental and Civil Engineering</i> , 0, , 1-18.	2.1	3

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73	Fabrication and evaluation of a portable long-throated flume. <i>Irrigation and Drainage</i> , 2007, 56, 565-575.	1.7	2
74	Compressive Strength of FRP-Reinforced and Confined Concrete Columns. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 0, , 1.	1.9	2
75	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.	2.6	2
76	A New Dual Polarity Direct AC-AC Voltage Regulator Ensuring Voltage Step-Up and Step-Down Capabilities. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11944.	2.5	2
77	New Antifriction Composites for Printing Machines Based on Tool Steel Grinding Waste. <i>Sustainability</i> , 2022, 14, 2799.	3.2	2
78	Deep learning based Intelligent Emotion Recognition and Classification System. , 2021, , .		2
79	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.	1.9	2
80	Seismic behaviour of concrete bridge piers with various types of transverse reinforcement. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 0, , 1-12.	0.8	1
81	Tests of polypropylene macro synthetic fibers and GFRP reinforced concrete columns subjected to concentric and eccentric loading. <i>Journal of Building Engineering</i> , 2021, 43, 103100.	3.4	1
82	Seismic behavior of Double-Skin tubular E-waste concrete columns transversely confined with steel and GFRP tubes. <i>Composite Structures</i> , 2022, 282, 115076.	5.8	1
83	Deep Foundation Testing using Immunity-based Displacement Measurement in Successive-Sparse Images. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 4212-4222.	1.9	0
84	Evaluation of human brain hyperthermia using exergy balance equation. <i>Journal of Thermal Biology</i> , 2020, 93, 102723.	2.5	0
85	Circular Polarized Re-Configurable Patch Antenna for Futuristic Wireless Communication. , 2020, , .		0
86	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.	2.9	0
87	Deep Learning Based Intelligent Classification Of Covid-19 & Pneumonia Using Cough Auscultations. , 2021, , .		0
88	Detecting False rRT-PCR COVID-19 Test Reports using Deep Learning Algorithms. , 2021, 6, 1-5.		0