

# Rishi Gupta

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,766  
citations

430442

18  
h-index

288905

40  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1620  
citing authors

#	ARTICLE	IF	CITATIONS
1	Durability performance evaluation of green geopolymer concrete. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 4297-4345.	1.0	18
2	Comparative analysis of different machine learning algorithms to predict mechanical properties of concrete. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 4032-4043.	1.5	33
3	Drying shrinkage properties of expanded polystyrene (EPS) lightweight aggregate concrete: A review. <i>Case Studies in Construction Materials</i> , 2022, 16, e00919.	0.8	13
4	MDPI Sustainability: Special Issue "Innovations in Sustainable Materials and Construction Technologies". <i>Sustainability</i> , 2022, 14, 2289.	1.6	1
5	Investigation of mechanical behavior and fracture energy of fiber-reinforced concrete beams and panels. <i>Cement and Concrete Composites</i> , 2022, 133, 104656.	4.6	10
6	Machine learning-based prediction for compressive and flexural strengths of steel fiber-reinforced concrete. <i>Construction and Building Materials</i> , 2021, 266, 121117.	3.2	178
7	Analyzing bond-deterioration during freeze-thaw exposure in cement-based repairs using non-destructive methods. <i>Cement and Concrete Composites</i> , 2021, 115, 103830.	4.6	15
8	Performance of Repaired Concrete under Cyclic Flexural Loading. <i>Materials</i> , 2021, 14, 1363.	1.3	4
9	Cadmium Water Pollution Associated with Motor Vehicle Brake Parts. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 691, 012001.	0.2	4
10	Bayesian Regularized Artificial Neural Network Model to Predict Strength Characteristics of Fly-Ash and Bottom-Ash Based Geopolymer Concrete. <i>Materials</i> , 2021, 14, 1729.	1.3	24
11	Self-Healing Potential and Post-Cracking Tensile Behavior of Polypropylene Fiber-Reinforced Cementitious Composites. <i>Journal of Composites Science</i> , 2021, 5, 122.	1.4	7
12	Elastic wave based evaluation of CFRP protected RC structures subjected to corrosion. <i>Construction and Building Materials</i> , 2021, 287, 123081.	3.2	1
13	Stormwater Runoff Treatment Using Pervious Concrete Modified with Various Nanomaterials: A Comprehensive Review. <i>Sustainability</i> , 2021, 13, 8552.	1.6	16
14	Exploring the Potential in LID Technologies for Remediating Heavy Metals in Carwash Wastewater. <i>Sustainability</i> , 2021, 13, 8727.	1.6	5
15	Corrosion Evaluation of Geopolymer Concrete Made with Fly Ash and Bottom Ash. <i>Sustainability</i> , 2021, 13, 398.	1.6	16
16	Experimental Investigation and Image Processing to Predict the Properties of Concrete with the Addition of Nano Silica and Rice Husk Ash. <i>Crystals</i> , 2021, 11, 1230.	1.0	23
17	Durability and Self-Sealing Examination of Concretes Modified with Crystalline Waterproofing Admixtures. <i>Materials</i> , 2021, 14, 6508.	1.3	7
18	Influence of Polypropylene, Carbon and Hybrid Coated Fiber on the Interfacial Microstructure Development of Cementitious Composites. <i>Fibers</i> , 2021, 9, 65.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Influence of cellulose fiber addition on self-healing and water permeability of concrete. Case Studies in Construction Materials, 2020, 12, e00324.	0.8	17
20	Cellulose fiber as bacteria-carrier in mortar: Self-healing quantification using UPV. Journal of Building Engineering, 2020, 28, 101090.	1.6	34
21	Novel Integration of Geopolymer Pavers, Silva Cells and Poplar Trees for In-Situ Treatment of Car-Wash Wastewater. Sustainability, 2020, 12, 8472.	1.6	1
22	Use of silica particles to improve dispersion of -COOH CNTs/carbon fibers to produce HyFRCC. Construction and Building Materials, 2020, 250, 118777.	3.2	24
23	Infectivity of SARS-CoV-2 and Other Coronaviruses on Dry Surfaces: Potential for Indirect Transmission. Materials, 2020, 13, 5211.	1.3	57
24	Freeze-Thaw Performance Characterization and Leachability of Potassium-Based Geopolymer Concrete. Journal of Composites Science, 2020, 4, 45.	1.4	10
25	Durability and leach-ability evaluation of K-based geopolymer concrete in real environmental conditions. Case Studies in Construction Materials, 2020, 13, e00366.	0.8	5
26	Characterization of Enhanced ITZ in Engineered Polypropylene Fibers for Bond Improvement. Journal of Composites Science, 2020, 4, 53.	1.4	8
27	Comparative Study Involving Effect of Curing Regime on Elastic Modulus of Geopolymer Concrete. Buildings, 2020, 10, 101.	1.4	12
28	Physicochemical characterization and heavy metals leaching potential of municipal solid waste incinerated bottom ash (MSWI-BA) when utilized in road construction. Environmental Science and Pollution Research, 2020, 27, 14184-14197.	2.7	28
29	A Novel Design and Performance Results of An Electrically Tunable Piezoelectric Vibration Energy Harvester (TPVEH). Journal of Composites Science, 2020, 4, 39.	1.4	4
30	Inventive Microstructural and Durability Investigation of Cementitious Composites Involving Crystalline Waterproofing Admixtures and Portland Limestone Cement. Materials, 2020, 13, 1425.	1.3	33
31	Fiber-Reinforced Cement Composites: Mechanical Properties and Structural Implications 2019. Advances in Materials Science and Engineering, 2019, 2019, 1-2.	1.0	2
32	Development of FRC Materials with Recycled Glass Fibers Recovered from Industrial GFRP-Acrylic Waste. Advances in Materials Science and Engineering, 2019, 2019, 1-15.	1.0	13
33	Two dimensional non-destructive testing data maps for reinforced concrete slabs with simulated damage. Data in Brief, 2019, 25, 104127.	0.5	1
34	Sub-surface simulated damage detection using Non-Destructive Testing Techniques in reinforced-concrete slabs. Construction and Building Materials, 2019, 215, 754-764.	3.2	25
35	Determining material characteristics of "Rammed Earth" using Non-Destructive Test methods for structural design. Structures, 2019, 20, 399-410.	1.7	8
36	Applicability of GPR and a rebar detector to obtain rebar information of existing concrete structures. Case Studies in Construction Materials, 2019, 11, e00240.	0.8	14

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37	Novel approach to microscopic characterization of cryo formation in air voids of concrete. <i>Micron</i> , 2019, 122, 21-27.	1.1	4
38	Assessment of self-healing and durability parameters of concretes incorporating crystalline admixtures and Portland Limestone Cement. <i>Cement and Concrete Composites</i> , 2019, 99, 17-31.	4.6	115
39	Polymer-Based Construction Materials for Civil Engineering. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-2.	1.2	3
40	Deterioration Assessment of Infrastructure Using Fuzzy Logic and Image Processing Algorithm. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, .	1.0	21
41	Prediction of the Compressive Strength from Resonant Frequency for Low-Calcium Fly Ash-Based Geopolymer Concrete. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	16
42	Specimen preparation for nano-scale investigation of cementitious repair material. <i>Micron</i> , 2018, 107, 43-54.	1.1	7
43	Minor defect correlation with dynamic elastic properties of polypropylene fiber-reinforced concrete. <i>Emerging Materials Research</i> , 2018, 7, 109-117.	0.4	1
44	Unmanned aerial vehicle-based sounding of subsurface concrete defects. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 1190-1197.	0.5	1
45	Determining Surface Infiltration Rate of Permeable Pavements with Digital Imaging. <i>Water (Switzerland)</i> , 2018, 10, 133.	1.2	18
46	Sounding of subsurface concrete defects using frequency response of flexural vibration. <i>Cement and Concrete Composites</i> , 2018, 92, 155-164.	4.6	7
47	Fiber-Reinforced Cement Composites: Mechanical Properties and Structural Implications. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-2.	1.0	3
48	Effect of Polypropylene Fibers on Self-Healing and Dynamic Modulus of Elasticity Recovery of Fiber Reinforced Concrete. <i>Fibers</i> , 2018, 6, 9.	1.8	24
49	Integrating natural and engineered remediation strategies for water quality management within a low-impact development (LID) approach. <i>Environmental Science and Pollution Research</i> , 2018, 25, 29304-29313.	2.7	9
50	Current Challenges in Average Residual Strength Evaluation of K-Silicate-Based Fiber-Reinforced Geopolymer Concrete. <i>ACI Materials Journal</i> , 2018, 115, .	0.3	0
51	Electrical Resistivity of Concrete for Durability Evaluation: A Review. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-30.	1.0	188
52	Advanced Cementitious Materials: Mechanical Behavior, Durability, and Volume Stability. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-2.	1.0	1
53	Correlating plastic shrinkage cracking potential of fiber reinforced cement composites with its early-age constitutive response in tension. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 1499-1509.	1.3	9
54	Health Monitoring of Civil Structures with Integrated UAV and Image Processing System. <i>Procedia Computer Science</i> , 2015, 54, 508-515.	1.2	122

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55	Current state of K-based geopolymer cements cured at ambient temperature. <i>Emerging Materials Research</i> , 2015, 4, 125-129.	0.4	12
56	Plastic Shrinkage Cracking Prediction in Cement-Based Materials Using Factorial Design. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	5
57	Innovative Test Technique to Evaluate "Self-Sealing" of Concrete. <i>Journal of Testing and Evaluation</i> , 2015, 43, 20130285.	0.4	9
58	Monitoring in situ performance of pervious concrete in British Columbia" A pilot study. <i>Case Studies in Construction Materials</i> , 2014, 1, 1-9.	0.8	26
59	Characterizing material properties of cement-stabilized rammed earth to construct sustainable insulated walls. <i>Case Studies in Construction Materials</i> , 2014, 1, 60-68.	0.8	24
60	Effect of Formwork, Wall Thickness, and Addition of Fly Ash on Concrete Hydration. <i>Advances in Civil Engineering Materials</i> , 2014, 3, 479-494.	0.2	0
61	Effect of PVC Stay-In-Place Formwork on Mechanical Performance of Concrete. <i>Journal of Materials in Civil Engineering</i> , 2009, 21, 309-315.	1.3	14
62	Influence of polypropylene fiber geometry on plastic shrinkage cracking in concrete. <i>Cement and Concrete Research</i> , 2006, 36, 1263-1267.	4.6	431
63	Housing Reconstruction in Northern Sumatra after the December 2004 Great Sumatra Earthquake and Tsunami. <i>Earthquake Spectra</i> , 2006, 22, 777-802.	1.6	12