

Rishi Gupta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4024894/publications.pdf>

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	Influence of polypropylene fiber geometry on plastic shrinkage cracking in concrete. <i>Cement and Concrete Research</i> , 2006, 36, 1263-1267.	4.6	431
2	Electrical Resistivity of Concrete for Durability Evaluation: A Review. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-30.	1.0	188
3	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
4	Health Monitoring of Civil Structures with Integrated UAV and Image Processing System. <i>Procedia Computer Science</i> , 2015, 54, 508-515.	1.2	122
5	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
6	Infectivity of SARS-CoV-2 and Other Coronaviruses on Dry Surfaces: Potential for Indirect Transmission. <i>Materials</i> , 2020, 13, 5211.	1.3	57
7	Cellulose fiber as bacteria-carrier in mortar: Self-healing quantification using UPV. <i>Journal of Building Engineering</i> , 2020, 28, 101090.	1.6	34
8	Inventive Microstructural and Durability Investigation of Cementitious Composites Involving Crystalline Waterproofing Admixtures and Portland Limestone Cement. <i>Materials</i> , 2020, 13, 1425.	1.3	33
9	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
10	Physicochemical characterization and heavy metals leaching potential of municipal solid waste incinerated bottom ash (MSWI-BA) when utilized in road construction. <i>Environmental Science and Pollution Research</i> , 2020, 27, 14184-14197.	2.7	28
11	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
12	Sub-surface simulated damage detection using Non-Destructive Testing Techniques in reinforced-concrete slabs. <i>Construction and Building Materials</i> , 2019, 215, 754-764.	3.2	25
13	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
14	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
15	Use of silica particles to improve dispersion of -COOH CNTs/carbon fibers to produce HyFRCC. <i>Construction and Building Materials</i> , 2020, 250, 118777.	3.2	24
16	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
17	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
18	Deterioration Assessment of Infrastructure Using Fuzzy Logic and Image Processing Algorithm. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, .	1.0	21

#	ARTICLE	IF	CITATIONS
19	Determining Surface Infiltration Rate of Permeable Pavements with Digital Imaging. <i>Water (Switzerland)</i> , 2018, 10, 133.	1.2	18
20	Durability performance evaluation of green geopolymer concrete. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 4297-4345.	1.0	18
21	Influence of cellulose fiber addition on self-healing and water permeability of concrete. <i>Case Studies in Construction Materials</i> , 2020, 12, e00324.	0.8	17
22	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
23	Stormwater Runoff Treatment Using Pervious Concrete Modified with Various Nanomaterials: A Comprehensive Review. <i>Sustainability</i> , 2021, 13, 8552.	1.6	16
24	Corrosion Evaluation of Geopolymer Concrete Made with Fly Ash and Bottom Ash. <i>Sustainability</i> , 2021, 13, 398.	1.6	16
25	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
26	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
27	Applicability of GPR and a rebar detector to obtain rebar information of existing concrete structures. <i>Case Studies in Construction Materials</i> , 2019, 11, e00240.	0.8	14
28	Development of FRC Materials with Recycled Glass Fibers Recovered from Industrial GFRP-Acrylic Waste. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-15.	1.0	13
29	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
30	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
31	Current state of K-based geopolymer cements cured at ambient temperature. <i>Emerging Materials Research</i> , 2015, 4, 125-129.	0.4	12
32	Comparative Study Involving Effect of Curing Regime on Elastic Modulus of Geopolymer Concrete. <i>Buildings</i> , 2020, 10, 101.	1.4	12
33	Freeze-Thaw Performance Characterization and Leachability of Potassium-Based Geopolymer Concrete. <i>Journal of Composites Science</i> , 2020, 4, 45.	1.4	10
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Innovative Test Technique to Evaluate "Self-Sealing" of Concrete. Journal of Testing and Evaluation, 2015, 43, 20130285.	0.4	9
38	Determining material characteristics of "Rammed Earth" using Non-Destructive Test methods for structural design. Structures, 2019, 20, 399-410.	1.7	8
39	Characterization of Enhanced ITZ in Engineered Polypropylene Fibers for Bond Improvement. Journal of Composites Science, 2020, 4, 53.	1.4	8
40	Specimen preparation for nano-scale investigation of cementitious repair material. Micron, 2018, 107, 43-54.	1.1	7
41	Sounding of subsurface concrete defects using frequency response of flexural vibration. Cement and Concrete Composites, 2018, 92, 155-164.	4.6	7
42	Self-Healing Potential and Post-Cracking Tensile Behavior of Polypropylene Fiber-Reinforced Cementitious Composites. Journal of Composites Science, 2021, 5, 122.	1.4	7
43	Durability and Self-Sealing Examination of Concretes Modified with Crystalline Waterproofing Admixtures. Materials, 2021, 14, 6508.	1.3	7
44	Plastic Shrinkage Cracking Prediction in Cement-Based Materials Using Factorial Design. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	5
45	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
46	Exploring the Potential in LID Technologies for Remediating Heavy Metals in Carwash Wastewater. Sustainability, 2021, 13, 8727.	1.6	5
47	Influence of Polypropylene, Carbon and Hybrid Coated Fiber on the Interfacial Microstructure Development of Cementitious Composites. Fibers, 2021, 9, 65.	1.8	5
48	Novel approach to microscopic characterization of cryo formation in air voids of concrete. Micron, 2019, 122, 21-27.	1.1	4
49	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
50	Performance of Repaired Concrete under Cyclic Flexural Loading. Materials, 2021, 14, 1363.	1.3	4
51	Cadmium Water Pollution Associated with Motor Vehicle Brake Parts. IOP Conference Series: Earth and Environmental Science, 2021, 691, 012001.	0.2	4
52	Fiber-Reinforced Cement Composites: Mechanical Properties and Structural Implications. Advances in Materials Science and Engineering, 2018, 2018, 1-2.	1.0	3
53	Polymer-Based Construction Materials for Civil Engineering. International Journal of Polymer Science, 2019, 2019, 1-2.	1.2	3
54	Fiber-Reinforced Cement Composites: Mechanical Properties and Structural Implications 2019. Advances in Materials Science and Engineering, 2019, 2019, 1-2.	1.0	2

#	ARTICLE	IF	CITATIONS
55	Advanced Cementitious Materials: Mechanical Behavior, Durability, and Volume Stability. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-2.	1.0	1
56	Minor defect correlation with dynamic elastic properties of polypropylene fiber-reinforced concrete. <i>Emerging Materials Research</i> , 2018, 7, 109-117.	0.4	1
57	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
58	Two dimensional non-destructive testing data maps for reinforced concrete slabs with simulated damage. <i>Data in Brief</i> , 2019, 25, 104127.	0.5	1
59	Novel Integration of Geopolymer Pavers, Silva Cells and Poplar Trees for In-Situ Treatment of Car-Wash Wastewater. <i>Sustainability</i> , 2020, 12, 8472.	1.6	1
60	Elastic wave based evaluation of CFRP protected RC structures subjected to corrosion. <i>Construction and Building Materials</i> , 2021, 287, 123081.	3.2	1
61	MDPI Sustainability: Special Issue "Innovations in Sustainable Materials and Construction Technologies". <i>Sustainability</i> , 2022, 14, 2289.	1.6	1
62	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
63	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