Shazim Ali Memon

List of Publications by Year
in descending order

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101 papers	5,491 citations	70961 41 h-index	85405 71 g-index
103 all docs	103 docs citations	103 times ranked	4281 citing authors

#	Article	IF	Citations
1	Dataset regarding calcium bentonite and sodium bentonite as stabilizers for roads unbound. Data in Brief, 2022, 41, 107898.	0.5	1
2	Sensitivity of energy performance to the selection of PCM melting temperature for the building located in Cfb climate zone. Energy Reports, 2022, 8, 6301-6320.	2.5	14
3	Pyrolysis as an alternate to open burning of crop residue and scrap tires: Greenhouse emissions assessment and mechanical performance investigation in concrete. Journal of Cleaner Production, 2022, 365, 132688.	4.6	7
4	Ranking PCMs for building faÃ§ade applications using multi-criteria decision-making tools combined with energy simulations. Energy, 2021, 215, 119102.	4.5	38
5	Efficient and highâ€precision time synchronization for wireless monitoring of civil infrastructure subjected to sudden events. Structural Control and Health Monitoring, 2021, 28, .	1.9	18
6	A novel approach to investigate the thermal comfort of the lightweight relocatable building integrated with PCM in different climates of Kazakhstan during summertime. Energy, 2021, 217, 119390.	4.5	57
7	Quantitative evaluation of the thermal and energy performance of the PCM integrated building in the subtropical climate zone for current and future climate scenario. Energy, 2021, 219, 119587.	4.5	33
8	Assessment of the Seismicity of Peshawar Region in Line with the Historical Data and Modern Building Codes (ASCE-07 & IBC-2006). Journal of Earthquake Engineering, 2021, 25, 1826-1850.	1.4	4
9	Compressive Strength of Fly-Ash-Based Geopolymer Concrete by Gene Expression Programming and Random Forest. Advances in Civil Engineering, 2021, 2021, 1-17.	0.4	74
10	Machine Learning-Based Modeling with Optimization Algorithm for Predicting Mechanical Properties of Sustainable Concrete. Advances in Civil Engineering, 2021, 2021, 1-15.	0.4	24
11	Punching Shear Strength Model for Reinforced Concrete Flat Plate Slabâ€"Column Connection without Shear Reinforcement. Journal of Structural Engineering, 2021, 147, .	1.7	3
12	Incorporation of Wheat Straw Ash as Partial Sand Replacement for Production of Eco-Friendly Concrete. Materials, 2021, 14, 2078.	1.3	9
13	Effect of Phase Change Materials on the Thermal Performance of Residential Building Located in Different Cities of a Tropical Rainforest Climate Zone. Energies, 2021, 14, 2699.	1.6	3
14	Methods of accelerating chloride-induced corrosion in steel-reinforced concrete: A comparative review. Construction and Building Materials, 2021, 289, 123165.	3.2	41
15	Degradation mechanism of cement mortar exposed to combined sulfateâ€"chloride attack under cyclic wettingâ€"drying condition. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	9
16	Self-Sensing Cementitious Composites: Review and Perspective. Nanomaterials, 2021, 11, 2355.	1.9	31
17	Implementation of the panel data regression analysis in PCM integrated buildings located in a humid subtropical climate. Energy, 2021, 237, 121651.	4.5	31
18	Strength, Hydraulic, and Microstructural Characteristics of Expansive Soils Incorporating Marble Dust and Rice Husk Ash. Advances in Civil Engineering, 2021, 2021, 1-18.	0.4	10

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19	An Exhaustive Search Energy Optimization Method for Residential Building Envelope in Different Climatic Zones of Kazakhstan. Buildings, 2021, 11, 633.	1.4	3
20	Performance evaluation of phase change materials suitable for cities representing the whole tropical savanna climate region. Renewable Energy, 2020, 148, 402-416.	4.3	28
21	Quantitative evaluation of thermal performance and energy saving potential of the building integrated with PCM in a subarctic climate. Energy, 2020, 192, 116607.	4.5	45
22	Emerging trends in the growth of structural systems for tall buildings. Journal of Structural Integrity and Maintenance, 2020, 5, 155-170.	0.7	17
23	A Review of Microscale, Rheological, Mechanical, Thermoelectrical and Piezoresistive Properties of Graphene Based Cement Composite. Nanomaterials, 2020, 10, 2076.	1.9	41
24	New Prediction Model for the Ultimate Axial Capacity of Concrete-Filled Steel Tubes: An Evolutionary Approach. Crystals, 2020, 10, 741.	1.0	87
25	A Review of Recent Developments and Advances in Eco-Friendly Geopolymer Concrete. Applied Sciences (Switzerland), 2020, 10, 7838.	1.3	75
26	On the Recent Trends in Expansive Soil Stabilization Using Calcium-Based Stabilizer Materials (CSMs): A Comprehensive Review. Advances in Materials Science and Engineering, 2020, 2020, 1-23.	1.0	74
27	Effect of Graphene Oxide/Graphene Hybrid on Mechanical Properties of Cement Mortar and Mechanism Investigation. Nanomaterials, 2020, 10, 113.	1.9	34
28	Evaluating the Energy Efficiency of PCM-Integrated Lightweight Steel-Framed Building in Eight Different Cities of Warm Summer Humid Continental Climate. Advances in Materials Science and Engineering, 2020, 2020, 1-16.	1.0	9
29	Evaluating the Effect of Calcination and Grinding of Corn Stalk Ash on Pozzolanic Potential for Sustainable Cement-Based Materials. Advances in Materials Science and Engineering, 2020, 2020, 1-13.	1.0	10
30	Sustainable incorporation of lime-bentonite clay composite for production of ecofriendly bricks. Journal of Cleaner Production, 2020, 263, 121469.	4.6	37
31	Influence of Graphene Oxide on Interfacial Transition Zone of Mortar. Journal of Nanomaterials, 2020, 2020, 1-11.	1.5	21
32	Thermal performance and energy efficiency of building integrated with PCMs in hot desert climate region. Solar Energy, 2019, 189, 357-371.	2.9	79
33	Effects of initial defects within mortar cover on corrosion of steel and cracking of cover using X-ray computed tomography. Construction and Building Materials, 2019, 223, 265-277.	3.2	14
34	Development of structural thermal energy storage concrete using paraffin intruded lightweight aggregate with nano-refined modified encapsulation paste layer. Construction and Building Materials, 2019, 228, 116768.	3.2	21
35	Synthesis and Properties of Red Mud-Based Nanoferrite Clinker. Journal of Nanomaterials, 2019, 2019, 1-12.	1.5	4
36	Durability of sustainable concrete subjected to elevated temperature â€“ A review. Construction and Building Materials, 2019, 199, 435-455.	3.2	82

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37	Eco-friendly utilization of corncob ash as partial replacement of sand in concrete. Construction and Building Materials, 2019, 195, 165-177.	3.2	61
38	Influence of Acceleration Approaches on the Corrosion Behavior of Embedded Steel in Mortar. Advances in Civil Engineering Materials, 2019, 8, 398-410.	0.2	1
39	Effective use of sawdust for the production of eco-friendly and thermal-energy efficient normal weight and lightweight concretes with tailored fracture properties. Journal of Cleaner Production, 2018, 184, 1016-1027.	4.6	63
40	Effect of calcium sulfate type and dosage on properties of calcium aluminate cement-based self-leveling mortar. Construction and Building Materials, 2018, 167, 253-262.	3.2	34
41	Evaluating the effect of external and internal factors on carbonation of existing concrete building structures. Construction and Building Materials, 2018, 167, 73-81.	3.2	26
42	Ash blended cement composites: Eco-friendly and sustainable option for utilization of corncob ash. Journal of Cleaner Production, 2018, 175, 442-455.	4.6	55
43	Assessment of Rheological and Piezoresistive Properties of Graphene based Cement Composites. International Journal of Concrete Structures and Materials, 2018, 12, .	1.4	44
44	Experimental and numerical study of flexural behavior of novel oil palm concrete filled steel tube exposed to elevated temperature. Journal of Cleaner Production, 2018, 205, 95-114.	4.6	13
45	Effect of Elevated Temperatures on Mechanical Performance of Normal and Lightweight Concretes Reinforced with Carbon Nanotubes. Fire Technology, 2018, 54, 1331-1367.	1.5	37
46	Environmentally Friendly Utilization of Wheat Straw Ash in Cement-Based Composites. Sustainability, 2018, 10, 1322.	1.6	53
47	Influence of Graphene Nanosheets on Rheology, Microstructure, Strength Development and Self-Sensing Properties of Cement Based Composites. Sustainability, 2018, 10, 822.	1.6	49
48	Flexural behaviour of steel hollow sections filled with concrete that contains OPBC as coarse aggregate. Journal of Constructional Steel Research, 2018, 148, 287-294.	1.7	10
49	Impact of Experimental Parameters on Degradation Mechanism and Service Life Prediction of CFRP Anode during Simulated ICCP Process. Journal of New Materials for Electrochemical Systems, 2018, 21, 103-111.	0.3	1
50	Corrosion induced stress field and cracking time of reinforced concrete with initial defects: Analytical modeling and experimental investigation. Corrosion Science, 2017, 120, 158-170.	3.0	38
51	Investigating drying behavior of cement mortar through electrochemical impedance spectroscopy analysis. Construction and Building Materials, 2017, 135, 361-368.	3.2	27
52	3D particle size distribution of inter-ground Portland limestone/slag cement from 2D observations: Characterization and distribution evaluation. Construction and Building Materials, 2017, 147, 550-557.	3.2	11
53	Retrofitting of Full-Scale Confined Masonry Building Using Ferro-Cement Overlay. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	11
54	Recent research on cold-formed steel beams and columns subjected to elevated temperature: A review. Construction and Building Materials, 2017, 144, 686-701.	3.2	28

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55	Three-dimensional characterization of steel corrosion embedded in cement paste. Construction and Building Materials, 2017, 143, 24-32.	3.2	28
56	Development of novel composite PCM for thermal energy storage using CaCl2Â·6H2O with graphene oxide and SrCl2Â·6H2O. Energy and Buildings, 2017, 156, 163-172.	3.1	56
57	FE modelling of the flexural behaviour of square and rectangular steel tubes filled with normal and high strength concrete. Thin-Walled Structures, 2017, 119, 470-481.	2.7	47
58	Design and Preparation of Carbon Based Composite Phase Change Material for Energy Piles. Materials, 2017, 10, 391.	1.3	27
59	Thermal Properties of Cement-Based Composites for Geothermal Energy Applications. Materials, 2017, 10, 462.	1.3	27
60	Preparation and Supercooling Modification of Salt Hydrate Phase Change Materials Based on CaCl2Â·2H2O/CaCl2. Materials, 2017, 10, 691.	1.3	18
61	A Sustainable Graphene Based Cement Composite. Sustainability, 2017, 9, 1229.	1.6	55
62	One dimensional equivalent linear ground response analysis â€" A case study of collapsed Margalla Tower in Islamabad during 2005 Muzaffarabad Earthquake. Journal of Applied Geophysics, 2016, 130, 110-117.	0.9	15
63	Degradation of carbon fiber reinforced polymer from cathodic protection process on exposure to NaOH and simulated pore water solutions. Materials and Structures/Materiaux Et Constructions, 2016, 49, 5273-5283.	1.3	25
64	Energy and economic analysis of building integrated with PCM in different cities of China. Applied Energy, 2016, 175, 324-336.	5.1	185
65	Nondestructive test methods for concrete bridges: A review. Construction and Building Materials, 2016, 107, 58-86.	3.2	269
66	Manufacturing of sintered lightweight aggregate using high-carbon fly ash and its effect on the mechanical properties and microstructure of concrete. Journal of Cleaner Production, 2016, 112, 753-762.	4.6	93
67	Influence of Ultrafine 2CaOÂ·SiO2 Powder on Hydration Properties of Reactive Powder Concrete. Materials, 2015, 8, 6195-6207.	1.3	14
68	Effect of rice husk ash fineness on porosity and hydration reaction of blended cement paste. Construction and Building Materials, 2015, 89, 90-101.	3.2	82
69	Recycling of carbon fibers from carbon fiber reinforced polymer using electrochemical method. Composites Part A: Applied Science and Manufacturing, 2015, 78, 10-17.	3.8	118
70	Microstructure, hydration and nanomechanical properties of concrete containing metakaolin. Construction and Building Materials, 2015, 95, 696-702.	3.2	104
71	Development of Carbon Nanotube Modified Cement Paste with Microencapsulated Phase-Change Material for Structuralâ€"Functional Integrated Application. International Journal of Molecular Sciences, 2015, 16, 8027-8039.	1.8	57
72	Development of Composite PCMs by Incorporation of Paraffin into Various Building Materials. Materials, 2015, 8, 499-518.	1.3	73

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73	Properties of Chemically Combusted Calcium Carbide Residue and Its Influence on Cement Properties. Materials, 2015, 8, 638-651.	1.3	31
74	Development of structuralâ€"functional integrated concrete with macro-encapsulated PCM for thermal energy storage. Applied Energy, 2015, 150, 245-257.	5.1	127
75	Development, mechanical properties and numerical simulation of macro encapsulated thermal energy storage concrete. Energy and Buildings, 2015, 96, 162-174.	3.1	111
76	Experimental Study on the Influence of Water Absorption of Recycled Coarse Aggregates on Properties of the Resulting Concretes. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	51
77	Utilization of macro encapsulated phase change materials for the development of thermal energy storage and structural lightweight aggregate concrete. Applied Energy, 2015, 139, 43-55.	5.1	150
78	Thermophysical and Mechanical Properties of Hardened Cement Paste with Microencapsulated Phase Change Materials for Energy Storage. Materials, 2014, 7, 8070-8087.	1.3	32
79	Anti-corrosion behaviour of VE/GF coatings on mild steel. International Journal of Materials Research, 2014, 105, 1227-1229.	0.1	1
80	Experimental Investigation on Use of Wheat Straw Ash and Bentonite in Self-Compacting Cementitious System. Advances in Materials Science and Engineering, 2014, 2014, 1-11.	1.0	33
81	Phase change materials integrated in building walls: A state of the art review. Renewable and Sustainable Energy Reviews, 2014, 31, 870-906.	8.2	525
82	Experimental assessment of position of macro encapsulated phase change material in concrete walls on indoor temperatures and humidity levels. Energy and Buildings, 2014, 71, 80-87.	3.1	135
83	The performance of Fly ash and Metakaolin concrete at elevated temperatures. Construction and Building Materials, 2014, 62, 67-76.	3.2	133
84	Development of form-stable composite phase change material by incorporation of dodecyl alcohol into ground granulated blast furnace slag. Energy and Buildings, 2013, 62, 360-367.	3.1	58
85	Utilization of waste glass powder for latent heat storage application in buildings. Energy and Buildings, 2013, 66, 405-414.	3.1	30
86	Preparation, characterization and thermal properties of dodecanol/cement as novel form-stable composite phase change material. Energy and Buildings, 2013, 66, 697-705.	3.1	62
87	Application of continuous surface temperature monitoring technique for investigation of nocturnal sensible heat release characteristics by building fabrics in Hong Kong. Energy and Buildings, 2013, 58, 1-10.	3.1	13
88	Preparation, characterization and thermal properties of Lauryl alcohol/Kaolin as novel form-stable composite phase change material for thermal energy storage in buildings. Applied Thermal Engineering, 2013, 59, 336-347.	3.0	127
89	Mechanical performance, durability, qualitative and quantitative analysis of microstructure of fly ash and Metakaolin mortar at elevated temperatures. Construction and Building Materials, 2013, 38, 338-347.	3.2	79
90	Evaluation of fly ash and Metakaolin concrete at elevated temperatures through stiffness damage test. Construction and Building Materials, 2013, 38, 1058-1065.	3.2	20

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91	Qualitative and quantitative analysis and identification of flaws in the microstructure of fly ash and metakaolin blended high performance concrete after exposure to elevated temperatures. Construction and Building Materials, 2013, 38, 731-741.	3.2	24
92	Verification and application of continuous surface temperature monitoring technique for investigation of nocturnal sensible heat release characteristics by building fabrics. Energy and Buildings, 2012, 53, 108-116.	3.1	28
93	Analytical model for compressive strength, elastic modulus and peak strain of structural lightweight aggregate concrete. Construction and Building Materials, 2012, 36, 1036-1043.	3.2	57
94	Experimental investigation and development of analytical model for pre-peak stressâ€"strain curve of structural lightweight aggregate concrete. Construction and Building Materials, 2012, 36, 845-859.	3.2	16
95	Microstructure and reactivity of rich husk ash. Construction and Building Materials, 2012, 29, 541-547.	3.2	153
96	Utilization of Pakistani bentonite as partial replacement of cement in concrete. Construction and Building Materials, 2012, 30, 237-242.	3.2	94
97	Effect of lightweight aggregates on the mechanical properties and brittleness of lightweight aggregate concrete. Construction and Building Materials, 2012, 35, 149-158.	3.2	142
98	Utilization of Rice Husk Ash as viscosity modifying agent in Self Compacting Concrete. Construction and Building Materials, 2011, 25, 1044-1048.	3.2	154
99	Production of low cost self compacting concrete using bagasse ash. Construction and Building Materials, 2009, 23, 703-712.	3.2	153
100	Strength Recovery of Lightweight Concrete under Elevated Temperature. Advanced Materials Research, 0, 905, 300-305.	0.3	3
101	Energy Savings of PCM-Incorporated Building in Hot Dry Climate. Key Engineering Materials, 0, 821, 518-524.	0.4	5