

# Shazim Ali Memon

## List of Publications by Citations

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99  
papers

3,536  
citations

34  
h-index

56  
g-index

103  
ext. papers

4,403  
ext. citations

5.3  
avg, IF

6.3  
L-index

#	Paper	IF	Citations
99	Phase change materials integrated in building walls: A state of the art review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 31, 870-906	16.2	389
98	Nondestructive test methods for concrete bridges: A review. <i>Construction and Building Materials</i> , <b>2016</b> , 107, 58-86	6.7	181
97	Energy and economic analysis of building integrated with PCM in different cities of China. <i>Applied Energy</i> , <b>2016</b> , 175, 324-336	10.7	122
96	Microstructure and reactivity of rich husk ash. <i>Construction and Building Materials</i> , <b>2012</b> , 29, 541-547	6.7	116
95	Utilization of macro encapsulated phase change materials for the development of thermal energy storage and structural lightweight aggregate concrete. <i>Applied Energy</i> , <b>2015</b> , 139, 43-55	10.7	114
94	Utilization of Rice Husk Ash as viscosity modifying agent in Self Compacting Concrete. <i>Construction and Building Materials</i> , <b>2011</b> , 25, 1044-1048	6.7	112
93	Production of low cost self compacting concrete using bagasse ash. <i>Construction and Building Materials</i> , <b>2009</b> , 23, 703-712	6.7	109
92	Preparation, characterization and thermal properties of Lauryl alcohol/Kaolin as novel form-stable composite phase change material for thermal energy storage in buildings. <i>Applied Thermal Engineering</i> , <b>2013</b> , 59, 336-347	5.8	105
91	Effect of lightweight aggregates on the mechanical properties and brittleness of lightweight aggregate concrete. <i>Construction and Building Materials</i> , <b>2012</b> , 35, 149-158	6.7	102
90	Experimental assessment of position of macro encapsulated phase change material in concrete walls on indoor temperatures and humidity levels. <i>Energy and Buildings</i> , <b>2014</b> , 71, 80-87	7	99
89	The performance of Fly ash and Metakaolin concrete at elevated temperatures. <i>Construction and Building Materials</i> , <b>2014</b> , 62, 67-76	6.7	87
88	Development of structural functional integrated concrete with macro-encapsulated PCM for thermal energy storage. <i>Applied Energy</i> , <b>2015</b> , 150, 245-257	10.7	81
87	Development, mechanical properties and numerical simulation of macro encapsulated thermal energy storage concrete. <i>Energy and Buildings</i> , <b>2015</b> , 96, 162-174	7	76
86	Recycling of carbon fibers from carbon fiber reinforced polymer using electrochemical method. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2015</b> , 78, 10-17	8.4	74
85	Manufacturing of sintered lightweight aggregate using high-carbon fly ash and its effect on the mechanical properties and microstructure of concrete. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 753-762	10.3	66
84	Microstructure, hydration and nanomechanical properties of concrete containing metakaolin. <i>Construction and Building Materials</i> , <b>2015</b> , 95, 696-702	6.7	65
83	Utilization of Pakistani bentonite as partial replacement of cement in concrete. <i>Construction and Building Materials</i> , <b>2012</b> , 30, 237-242	6.7	64

82	Mechanical performance, durability, qualitative and quantitative analysis of microstructure of fly ash and Metakaolin mortar at elevated temperatures. <i>Construction and Building Materials</i> , <b>2013</b> , 38, 338-347	6.7	60
81	Effect of rice husk ash fineness on porosity and hydration reaction of blended cement paste. <i>Construction and Building Materials</i> , <b>2015</b> , 89, 90-101	6.7	56
80	Development of Composite PCMs by Incorporation of Paraffin into Various Building Materials. <i>Materials</i> , <b>2015</b> , 8, 499-518	3.5	55
79	Preparation, characterization and thermal properties of dodecanol/cement as novel form-stable composite phase change material. <i>Energy and Buildings</i> , <b>2013</b> , 66, 697-705	7	50
78	Development of form-stable composite phase change material by incorporation of dodecyl alcohol into ground granulated blast furnace slag. <i>Energy and Buildings</i> , <b>2013</b> , 62, 360-367	7	48
77	Durability of sustainable concrete subjected to elevated temperature [A review]. <i>Construction and Building Materials</i> , <b>2019</b> , 199, 435-455	6.7	47
76	Analytical model for compressive strength, elastic modulus and peak strain of structural lightweight aggregate concrete. <i>Construction and Building Materials</i> , <b>2012</b> , 36, 1036-1043	6.7	45
75	Thermal performance and energy efficiency of building integrated with PCMs in hot desert climate region. <i>Solar Energy</i> , <b>2019</b> , 189, 357-371	6.8	41
74	Development of carbon nanotube modified cement paste with microencapsulated phase-change material for structural-functional integrated application. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 8027-39	6.3	40
73	Effective use of sawdust for the production of eco-friendly and thermal-energy efficient normal weight and lightweight concretes with tailored fracture properties. <i>Journal of Cleaner Production</i> , <b>2018</b> , 184, 1016-1027	10.3	40
72	Ash blended cement composites: Eco-friendly and sustainable option for utilization of corncob ash. <i>Journal of Cleaner Production</i> , <b>2018</b> , 175, 442-455	10.3	39
71	New Prediction Model for the Ultimate Axial Capacity of Concrete-Filled Steel Tubes: An Evolutionary Approach. <i>Crystals</i> , <b>2020</b> , 10, 741	2.3	38
70	Experimental Study on the Influence of Water Absorption of Recycled Coarse Aggregates on Properties of the Resulting Concretes. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27, 04014138	3	37
69	A Sustainable Graphene Based Cement Composite. <i>Sustainability</i> , <b>2017</b> , 9, 1229	3.6	35
68	Eco-friendly utilization of corncob ash as partial replacement of sand in concrete. <i>Construction and Building Materials</i> , <b>2019</b> , 195, 165-177	6.7	35
67	On the Recent Trends in Expansive Soil Stabilization Using Calcium-Based Stabilizer Materials (CSMs): A Comprehensive Review. <i>Advances in Materials Science and Engineering</i> , <b>2020</b> , 2020, 1-23	1.5	34
66	FE modelling of the flexural behaviour of square and rectangular steel tubes filled with normal and high strength concrete. <i>Thin-Walled Structures</i> , <b>2017</b> , 119, 470-481	4.7	34
65	Development of novel composite PCM for thermal energy storage using CaCl <sub>2</sub> ·6H <sub>2</sub> O with graphene oxide and SrCl <sub>2</sub> ·6H <sub>2</sub> O. <i>Energy and Buildings</i> , <b>2017</b> , 156, 163-172	7	31

64	Influence of Graphene Nanosheets on Rheology, Microstructure, Strength Development and Self-Sensing Properties of Cement Based Composites. <i>Sustainability</i> , <b>2018</b> , 10, 822	3.6	31
63	Compressive Strength of Fly-Ash-Based Geopolymer Concrete by Gene Expression Programming and Random Forest. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-17	1.3	30
62	A Review of Recent Developments and Advances in Eco-Friendly Geopolymer Concrete. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7838	2.6	28
61	Environmentally Friendly Utilization of Wheat Straw Ash in Cement-Based Composites. <i>Sustainability</i> , <b>2018</b> , 10, 1322	3.6	27
60	Corrosion induced stress field and cracking time of reinforced concrete with initial defects: Analytical modeling and experimental investigation. <i>Corrosion Science</i> , <b>2017</b> , 120, 158-170	6.8	26
59	Thermophysical and Mechanical Properties of Hardened Cement Paste with Microencapsulated Phase Change Materials for Energy Storage. <i>Materials</i> , <b>2014</b> , 7, 8070-8087	3.5	26
58	Assessment of Rheological and Piezoresistive Properties of Graphene based Cement Composites. <i>International Journal of Concrete Structures and Materials</i> , <b>2018</b> , 12,	2.8	26
57	Utilization of waste glass powder for latent heat storage application in buildings. <i>Energy and Buildings</i> , <b>2013</b> , 66, 405-414	7	25
56	Quantitative evaluation of thermal performance and energy saving potential of the building integrated with PCM in a subarctic climate. <i>Energy</i> , <b>2020</b> , 192, 116607	7.9	25
55	Three-dimensional characterization of steel corrosion embedded in cement paste. <i>Construction and Building Materials</i> , <b>2017</b> , 143, 24-32	6.7	23
54	Experimental Investigation on Use of Wheat Straw Ash and Bentonite in Self-Compacting Cementitious System. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-11	1.5	23
53	Recent research on cold-formed steel beams and columns subjected to elevated temperature: A review. <i>Construction and Building Materials</i> , <b>2017</b> , 144, 686-701	6.7	22
52	Properties of Chemically Combusted Calcium Carbide Residue and Its Influence on Cement Properties. <i>Materials</i> , <b>2015</b> , 8, 638-651	3.5	22
51	Ranking PCMs for building façade applications using multi-criteria decision-making tools combined with energy simulations. <i>Energy</i> , <b>2021</b> , 215, 119102	7.9	22
50	Effect of Elevated Temperatures on Mechanical Performance of Normal and Lightweight Concretes Reinforced with Carbon Nanotubes. <i>Fire Technology</i> , <b>2018</b> , 54, 1331-1367	3	22
49	Sustainable incorporation of lime-bentonite clay composite for production of ecofriendly bricks. <i>Journal of Cleaner Production</i> , <b>2020</b> , 263, 121469	10.3	19
48	Effect of calcium sulfate type and dosage on properties of calcium aluminate cement-based self-leveling mortar. <i>Construction and Building Materials</i> , <b>2018</b> , 167, 253-262	6.7	19
47	Design and Preparation of Carbon Based Composite Phase Change Material for Energy Piles. <i>Materials</i> , <b>2017</b> , 10,	3.5	19

46	Verification and application of continuous surface temperature monitoring technique for investigation of nocturnal sensible heat release characteristics by building fabrics. <i>Energy and Buildings</i> , <b>2012</b> , 53, 108-116	7	19
45	Investigating drying behavior of cement mortar through electrochemical impedance spectroscopy analysis. <i>Construction and Building Materials</i> , <b>2017</b> , 135, 361-368	6.7	18
44	Evaluation of fly ash and Metakaolin concrete at elevated temperatures through stiffness damage test. <i>Construction and Building Materials</i> , <b>2013</b> , 38, 1058-1065	6.7	18
43	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. <i>Construction and Building Materials</i> , <b>2013</b> , 38, 731-741	6.7	18
42	Degradation of carbon fiber reinforced polymer from cathodic protection process on exposure to NaOH and simulated pore water solutions. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2016</b> , 49, 5273-5283	3.4	17
41	A novel approach to investigate the thermal comfort of the lightweight relocatable building integrated with PCM in different climates of Kazakhstan during summertime. <i>Energy</i> , <b>2021</b> , 217, 119390	7.9	17
40	Effect of Graphene Oxide/Graphene Hybrid on Mechanical Properties of Cement Mortar and Mechanism Investigation. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	15
39	Evaluating the effect of external and internal factors on carbonation of existing concrete building structures. <i>Construction and Building Materials</i> , <b>2018</b> , 167, 73-81	6.7	15
38	Influence of Graphene Oxide on Interfacial Transition Zone of Mortar. <i>Journal of Nanomaterials</i> , <b>2020</b> , 2020, 1-11	3.2	15
37	Influence of Ultrafine 2CaO[SiO] Powder on Hydration Properties of Reactive Powder Concrete. <i>Materials</i> , <b>2015</b> , 8, 6195-6207	3.5	13
36	Quantitative evaluation of the thermal and energy performance of the PCM integrated building in the subtropical climate zone for current and future climate scenario. <i>Energy</i> , <b>2021</b> , 219, 119587	7.9	13
35	Thermal Properties of Cement-Based Composites for Geothermal Energy Applications. <i>Materials</i> , <b>2017</b> , 10,	3.5	12
34	Experimental investigation and development of analytical model for pre-peak stress-strain curve of structural lightweight aggregate concrete. <i>Construction and Building Materials</i> , <b>2012</b> , 36, 845-859	6.7	12
33	Implementation of the panel data regression analysis in PCM integrated buildings located in a humid subtropical climate. <i>Energy</i> , <b>2021</b> , 237, 121651	7.9	12
32	Performance evaluation of phase change materials suitable for cities representing the whole tropical savanna climate region. <i>Renewable Energy</i> , <b>2020</b> , 148, 402-416	8.1	11
31	A Review of Microscale, Rheological, Mechanical, Thermoelectrical and Piezoresistive Properties of Graphene Based Cement Composite. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	11
30	Experimental and numerical study of flexural behavior of novel oil palm concrete filled steel tube exposed to elevated temperature. <i>Journal of Cleaner Production</i> , <b>2018</b> , 205, 95-114	10.3	11
29	Development of structural thermal energy storage concrete using paraffin intruded lightweight aggregate with nano-refined modified encapsulation paste layer. <i>Construction and Building Materials</i> , <b>2019</b> , 228, 116768	6.7	10

28	Application of continuous surface temperature monitoring technique for investigation of nocturnal sensible heat release characteristics by building fabrics in Hong Kong. <i>Energy and Buildings</i> , <b>2013</b> , 58, 1-10	7	10
27	Preparation and Supercooling Modification of Salt Hydrate Phase Change Materials Based on CaCl <sub>2</sub> H <sub>2</sub> O/CaCl <sub>2</sub> . <i>Materials</i> , <b>2017</b> , 10,	3.5	10
26	Effects of initial defects within mortar cover on corrosion of steel and cracking of cover using X-ray computed tomography. <i>Construction and Building Materials</i> , <b>2019</b> , 223, 265-277	6.7	9
25	Emerging trends in the growth of structural systems for tall buildings. <i>Journal of Structural Integrity and Maintenance</i> , <b>2020</b> , 5, 155-170	1.5	9
24	Machine Learning-Based Modeling with Optimization Algorithm for Predicting Mechanical Properties of Sustainable Concrete. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-15	1.3	9
23	Flexural behaviour of steel hollow sections filled with concrete that contains OPBC as coarse aggregate. <i>Journal of Constructional Steel Research</i> , <b>2018</b> , 148, 287-294	3.8	8
22	Methods of accelerating chloride-induced corrosion in steel-reinforced concrete: A comparative review. <i>Construction and Building Materials</i> , <b>2021</b> , 289, 123165	6.7	8
21	One dimensional equivalent linear ground response analysis – A case study of collapsed Margalla Tower in Islamabad during 2005 Muzaffarabad Earthquake. <i>Journal of Applied Geophysics</i> , <b>2016</b> , 130, 110-117	1.7	8
20	3D particle size distribution of inter-ground Portland limestone/slag cement from 2D observations: Characterization and distribution evaluation. <i>Construction and Building Materials</i> , <b>2017</b> , 147, 550-557	6.7	6
19	Self-Sensing Cementitious Composites: Review and Perspective. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
18	Efficient and high-precision time synchronization for wireless monitoring of civil infrastructure subjected to sudden events. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28,	4.5	5
17	Retrofitting of Full-Scale Confined Masonry Building Using Ferro-Cement Overlay. <i>Journal of Performance of Constructed Facilities</i> , <b>2017</b> , 31, 04017079	2	4
16	Assessment of the Seismicity of Peshawar Region in Line with the Historical Data and Modern Building Codes (ASCE-07 & IBC-2006). <i>Journal of Earthquake Engineering</i> , <b>2021</b> , 25, 1826-1850	1.8	4
15	Evaluating the Energy Efficiency of PCM-Integrated Lightweight Steel-Framed Building in Eight Different Cities of Warm Summer Humid Continental Climate. <i>Advances in Materials Science and Engineering</i> , <b>2020</b> , 2020, 1-16	1.5	3
14	Energy Savings of PCM-Incorporated Building in Hot Dry Climate. <i>Key Engineering Materials</i> , <b>2019</b> , 821, 518-524	0.4	2
13	Synthesis and Properties of Red Mud-Based Nanoferrite Clinker. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-12	3.2	2
12	Evaluating the Effect of Calcination and Grinding of Corn Stalk Ash on Pozzolanic Potential for Sustainable Cement-Based Materials. <i>Advances in Materials Science and Engineering</i> , <b>2020</b> , 2020, 1-13	1.5	2
11	Strength Recovery of Lightweight Concrete under Elevated Temperature. <i>Advanced Materials Research</i> , <b>2014</b> , 905, 300-305	0.5	2

10	Punching Shear Strength Model for Reinforced Concrete Flat Plate Slab-Column Connection without Shear Reinforcement. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04020358	3	2
9	Degradation mechanism of cement mortar exposed to combined sulfate-chloride attack under cyclic wetting-drying condition. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2021</b> , 54, 1	3.4	2
8	Anti-corrosion behaviour of VE/GF coatings on mild steel. <i>International Journal of Materials Research</i> , <b>2014</b> , 105, 1227-1229	0.5	1
7	Influence of Acceleration Approaches on the Corrosion Behavior of Embedded Steel in Mortar. <i>Advances in Civil Engineering Materials</i> , <b>2019</b> , 8, 20190011	0.7	1
6	Incorporation of Wheat Straw Ash as Partial Sand Replacement for Production of Eco-Friendly Concrete. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
5	Effect of Phase Change Materials on the Thermal Performance of Residential Building Located in Different Cities of a Tropical Rainforest Climate Zone. <i>Energies</i> , <b>2021</b> , 14, 2699	3.1	1
4	Sensitivity of energy performance to the selection of PCM melting temperature for the building located in Cfb climate zone. <i>Energy Reports</i> , <b>2022</b> , 8, 6301-6320	4.6	1
3	Dataset regarding calcium bentonite and sodium bentonite as stabilizers for roads unbound.. <i>Data in Brief</i> , <b>2022</b> , 41, 107898	1.2	0
2	Strength, Hydraulic, and Microstructural Characteristics of Expansive Soils Incorporating Marble Dust and Rice Husk Ash. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-18	1.3	0
1	An Exhaustive Search Energy Optimization Method for Residential Building Envelope in Different Climatic Zones of Kazakhstan. <i>Buildings</i> , <b>2021</b> , 11, 633	3.2	