

Muhammad Riaz Ahmad

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2994191/publications.pdf>

Version: 2024-02-01

37
papers

1,734
citations

279798

23
h-index

330143

37
g-index

37
all docs

37
docs citations

37
times ranked

913
citing authors

#	ARTICLE	IF	CITATIONS
1	Fresh and hardened properties of one-part fly ash-based geopolymer binders cured at room temperature: Effect of slag and alkali activators. <i>Journal of Cleaner Production</i> , 2019, 225, 1-10.	9.3	217
2	A comprehensive study of basalt fiber reinforced magnesium phosphate cement incorporating ultrafine fly ash. <i>Composites Part B: Engineering</i> , 2019, 168, 204-217.	12.0	138
3	Effect of silica fume and basalt fiber on the mechanical properties and microstructure of magnesium phosphate cement (MPC) mortar. <i>Construction and Building Materials</i> , 2018, 190, 466-478.	7.2	121
4	Influence of superplasticizers and retarders on the workability and strength of one-part alkali-activated fly ash/slag binders cured at room temperature. <i>Construction and Building Materials</i> , 2019, 229, 116891.	7.2	103
5	Properties of magnesium phosphate cement containing steel slag powder. <i>Construction and Building Materials</i> , 2019, 195, 140-147.	7.2	94
6	Development of a new bio-composite for building insulation and structural purpose using corn stalk and magnesium phosphate cement. <i>Energy and Buildings</i> , 2018, 173, 719-733.	6.7	77
7	Improvement of early strength of fly ash-slag based one-part alkali activated mortar. <i>Construction and Building Materials</i> , 2020, 246, 118533.	7.2	74
8	Investigate the influence of expanded clay aggregate and silica fume on the properties of lightweight concrete. <i>Construction and Building Materials</i> , 2019, 220, 253-266.	7.2	71
9	Experimental research on the performance of lightweight concrete containing foam and expanded clay aggregate. <i>Composites Part B: Engineering</i> , 2019, 171, 46-60.	12.0	67
10	Multiproperty characterization of cleaner and energy-efficient vegetal concrete based on one-part geopolymer binder. <i>Journal of Cleaner Production</i> , 2020, 253, 119916.	9.3	66
11	Comparative study on the effect of fiber type and content on the performance of one-part alkali-activated mortar. <i>Construction and Building Materials</i> , 2020, 243, 118221.	7.2	66
12	Development of Cleaner One-part geopolymer from lithium slag. <i>Journal of Cleaner Production</i> , 2021, 291, 125241.	9.3	46
13	Influence of different admixtures on the mechanical and durability properties of one-part alkali-activated mortars. <i>Construction and Building Materials</i> , 2020, 265, 120320.	7.2	42
14	Microstructural characterization of basalt fiber reinforced magnesium phosphate cement supplemented by silica fume. <i>Construction and Building Materials</i> , 2020, 237, 117795.	7.2	41
15	Development of a sustainable and innovant hygrothermal bio-composite featuring the enhanced mechanical properties. <i>Journal of Cleaner Production</i> , 2019, 229, 128-143.	9.3	40
16	Improvement effect of pyrolyzed agro-food biochar on the properties of magnesium phosphate cement. <i>Science of the Total Environment</i> , 2020, 718, 137422.	8.0	36
17	Investigation of thermal performance of concrete incorporating different types of recycled coarse aggregates. <i>Construction and Building Materials</i> , 2021, 270, 121433.	7.2	36
18	Evaluating the physical and strength properties of fibre reinforced magnesium phosphate cement mortar considering mass loss. <i>Construction and Building Materials</i> , 2019, 217, 427-440.	7.2	34

#	ARTICLE	IF	CITATIONS
19	A study on magnesium phosphate cement mortars reinforced by polyvinyl alcohol fibers. <i>Construction and Building Materials</i> , 2021, 302, 124154.	7.2	34
20	Mechanical strength and flexural parameters analysis of micro-steel, polyvinyl and basalt fibre reinforced magnesium phosphate cement mortars. <i>Construction and Building Materials</i> , 2020, 235, 117447.	7.2	32
21	Influence of type of binder and size of plant aggregate on the hygrothermal properties of bio-concrete. <i>Construction and Building Materials</i> , 2020, 251, 118981.	7.2	32
22	Improvement of physico-mechanical and microstructural properties of magnesium phosphate cement composites comprising with Phosphogypsum. <i>Journal of Cleaner Production</i> , 2020, 261, 121268.	9.3	31
23	Effects of Alumina as an Effective Constituent of Metakaolin on Properties of Magnesium Phosphate Cements. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	2.9	26
24	Preparation and study of magnesium ammonium phosphate cement from waste lithium slag. <i>Journal of Cleaner Production</i> , 2021, 316, 128371.	9.3	24
25	Development of novel design strength model for sustainable concrete columns: A new machine learning-based approach. <i>Journal of Cleaner Production</i> , 2022, 357, 131988.	9.3	23
26	Evolutionary artificial intelligence approach for performance prediction of bio-composites. <i>Construction and Building Materials</i> , 2021, 290, 123254.	7.2	22
27	Utilization of industrial and hazardous waste materials to formulate energy-efficient hygrothermal bio-composites. <i>Journal of Cleaner Production</i> , 2020, 250, 119469.	9.3	20
28	Experimental investigation on two new corn stalk biocomposites based on magnesium phosphate cement and ordinary Portland cement. <i>Construction and Building Materials</i> , 2019, 224, 700-710.	7.2	19
29	Mechanical and microstructural characterization of bio-concrete prepared with optimized alternative green binders. <i>Construction and Building Materials</i> , 2021, 281, 122533.	7.2	15
30	Upcycling of air pollution control residue waste into cementitious product through geopolymerization technology. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106231.	10.8	15
31	Axial Stress-Strain Performance of Recycled Aggregate Concrete Reinforced with Macro-Polypropylene Fibres. <i>Sustainability</i> , 2021, 13, 5741.	3.2	14
32	Development of plant-concrete composites containing pretreated corn stalk bio-aggregates and different type of binders. <i>Cement and Concrete Composites</i> , 2021, 121, 104054.	10.7	14
33	Physical and mechanical properties of sustainable vegetal concrete exposed to extreme weather conditions. <i>Construction and Building Materials</i> , 2021, 287, 123024.	7.2	11
34	Study of a new capillary active bio-insulation material by hygrothermal simulation of multilayer wall. <i>Energy and Buildings</i> , 2021, 234, 110724.	6.7	10
35	Numerical and experimental investigation of the hygrothermal properties of corn stalk and magnesium phosphate cement (MPC) based bio-composites. <i>Construction and Building Materials</i> , 2020, 244, 118358.	7.2	9
36	Development of a novel compressive strength design equation for natural and recycled aggregate concrete through advanced computational modeling. <i>Journal of Building Engineering</i> , 2022, 55, 104690.	3.4	9

#	ARTICLE	IF	CITATIONS
37	Experimental investigation of pozzolanic concrete containing wheat straw ash. Canadian Journal of Civil Engineering, 2019, 46, 941-951.	1.3	5