

# Review of mechanical properties of short fibre reinforced

Construction and Building Materials

43, 37-49

DOI: [10.1016/j.conbuildmat.2013.01.026](https://doi.org/10.1016/j.conbuildmat.2013.01.026)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Multifunctional properties of carbon nanotube/fly ash geopolymeric nanocomposites. Construction and Building Materials, 2013, 49, 46-55.	3.2	187
2	Flexural Toughness Properties of Reinforced Steel Fibre Incorporated Alkali Activated Slag Concrete. Advances in Civil Engineering, 2014, 2014, 1-12.	0.4	10
3	Effect of fabric orientation on mechanical properties of cotton fabric reinforced geopolymer composites. Materials & Design, 2014, 57, 360-365.	5.1	78
4	Development of metakaolin-fly ash based geopolymers for fire resistance applications. Construction and Building Materials, 2014, 55, 38-45.	3.2	208
5	Experimental study on the mechanical properties and microstructure of chopped basalt fibre reinforced concrete. Materials & Design, 2014, 58, 187-193.	5.1	480
6	Mechanical properties of cotton fabric reinforced geopolymer composites at 200-1000 °C. Journal of Advanced Ceramics, 2014, 3, 184-193.	8.9	40
7	The effect of organic and inorganic fibres on the mechanical and thermal properties of aluminate activated geopolymers. Composites Part B: Engineering, 2015, 76, 218-228.	5.9	122
8	Nanoindentation and SEM/EDX characterization of the geopolymer-to-steel interfacial transition zone for a reactive porcelain enamel coating. Composites Part B: Engineering, 2015, 78, 131-137.	5.9	43
9	Characterizing the bond strength of geopolymers at ambient and elevated temperatures. Cement and Concrete Composites, 2015, 58, 40-49.	4.6	63
10	Reuse of recycled aggregate in the production of alkali-activated concrete. , 2015, , 519-538.		13
11	Mechanical strength and Young's modulus of alkali-activated cement-based binders. , 2015, , 171-215.		14
12	FEA modelling of fracture toughness of steel fibre-reinforced geopolymer composites. Materials & Design, 2015, 76, 215-222.	5.1	36
13	Mechanical properties and fracture behavior of basalt and glass fiber reinforced concrete: An experimental study. Construction and Building Materials, 2015, 100, 218-224.	3.2	344
14	Lightweight Building Materials of Geopolymer Reinforced Wood Particles Aggregate - A Review. Applied Mechanics and Materials, 0, 802, 220-224.	0.2	7
15	Flexural strength of plain and fibre-reinforced boroaluminosilicate geopolymer. Construction and Building Materials, 2015, 76, 207-213.	3.2	40
16	Enhanced properties of graphene/fly ash geopolymeric composite cement. Cement and Concrete Research, 2015, 67, 292-299.	4.6	203
17	LIGHTWEIGHT GEOPOLYMER WOOD COMPOSITE SYNTHESIZED FROM ALKALI-ACTIVATED FLY ASH AND METAKAOLIN. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	8
18	Use of non-wood biomass combustion ash in development of alkali-activated concrete. Construction and Building Materials, 2016, 121, 491-500.	3.2	38

#	ARTICLE	IF	CITATIONS
19	The Influence of Different Wood Aggregates on the Properties of Geopolymer Composites. Key Engineering Materials, 0, 723, 74-79.	0.4	9
20	Review on Different Types of Geopolymer Concrete Fibres. Materials Science Forum, 0, 857, 388-394.	0.3	2
21	Effects of basalt and glass chopped fibers addition on fracture energy and mechanical properties of ordinary concrete: CMOD measurement. Construction and Building Materials, 2016, 114, 383-391.	3.2	127
22	A review of alternatives traditional cementitious binders for engineering improvement of soils. International Journal of Geotechnical Engineering, 0, , 1-11.	1.1	17
23	Mechanical properties of geopolymer concrete containing polyvinyl alcohol fiber exposed to high temperature. Construction and Building Materials, 2016, 126, 381-387.	3.2	88
24	Microstructure and mechanical properties of a metakaolinite-based geopolymer nanocomposite reinforced with carbon nanotubes. Ceramics International, 2016, 42, 15171-15176.	2.3	136
25	SiC fiber reinforced geopolymer composites, part 2: Continuous SiC fiber. Ceramics International, 2016, 42, 12239-12245.	2.3	33
26	Dynamic compressive behavior of basalt fiber reinforced concrete after exposure to elevated temperatures. Fire and Materials, 2016, 40, 738-755.	0.9	31
27	Fabrication, mechanical performance and tribological behaviors of polyacetal-fiber-reinforced metakaolin-based geopolymeric composites. Ceramics International, 2016, 42, 6329-6341.	2.3	14
28	Impact of added water and superplasticizer on early compressive strength of selected mixtures of palm oil fuel ash-based engineered geopolymer composites. Construction and Building Materials, 2016, 109, 198-206.	3.2	48
29	The impact resistance and mechanical properties of self-compacting concrete reinforced with recycled CFRP pieces. Composites Part B: Engineering, 2016, 92, 360-376.	5.9	129
30	Thermal behavior and mechanical properties of geopolymer mortar after exposure to elevated temperatures. Construction and Building Materials, 2016, 109, 17-24.	3.2	172
31	Improving compressive strength of fly ash-based geopolymer composites by basalt fibers addition. Ceramics International, 2016, 42, 6288-6295.	2.3	107
32	SiC fiber reinforced geopolymer composites, part 1: Short SiC fiber. Ceramics International, 2016, 42, 5345-5352.	2.3	43
33	Characterization of alkali activated geopolymer mortar doped with MWCNT. Construction and Building Materials, 2016, 102, 329-337.	3.2	127
34	Electrical conductivity and compressive strength of carbon fiber reinforced fly ash geopolymeric composites. Construction and Building Materials, 2017, 135, 164-176.	3.2	76
35	Effects of high-temperature heat treatment on the microstructure and mechanical performance of hybrid Cf-SiCf-(Al <sub>2</sub> O <sub>3</sub> p) reinforced geopolymer composites. Composites Part B: Engineering, 2017, 114, 289-298.	5.9	24
36	Steel fibre reinforced geopolymer concrete (SFRGC) with improved microstructure and enhanced fibre-matrix interfacial properties. Construction and Building Materials, 2017, 139, 286-307.	3.2	75

#	ARTICLE	IF	CITATIONS
37	Effect of aluminosilicate powders on the applicability of innovative geopolymer binders for wood-based composites. <i>European Journal of Wood and Wood Products</i> , 2017, 75, 893-902.	1.3	12
38	On the mixed mode I/II fracture properties of jute fiber-reinforced concrete. <i>Construction and Building Materials</i> , 2017, 148, 512-520.	3.2	114
39	Surface decoration of polyimide fiber with carbon nanotubes and its application for mechanical enhancement of phosphoric acid-based geopolymers. <i>Applied Surface Science</i> , 2017, 416, 200-212.	3.1	46
40	Geopolymer matrix for fibre reinforced composites aimed at strengthening masonry structures. <i>Construction and Building Materials</i> , 2017, 141, 542-552.	3.2	51
41	Mechanical properties and durability of high-strength concrete containing macro-polymeric and polypropylene fibers with nano-silica and silica fume. <i>Construction and Building Materials</i> , 2017, 132, 170-187.	3.2	303
42	Novel sustainable geopolymer based syntactic foams: An eco-friendly alternative to polymer based syntactic foams. <i>Chemical Engineering Journal</i> , 2017, 313, 74-82.	6.6	45
43	Role of alkali cation in compressive strength of metakaolin based geopolymers. <i>Ceramics International</i> , 2017, 43, 3811-3817.	2.3	51
44	An investigation into fracture behavior of geopolymer concrete with digital image correlation technique. <i>Construction and Building Materials</i> , 2017, 155, 371-380.	3.2	33
45	Influence of steel fibers on the mechanical properties and impact resistance of lightweight geopolymer concrete. <i>Construction and Building Materials</i> , 2017, 152, 964-977.	3.2	91
46	Flexural behavior and microstructure of hybrid basalt textile and steel fiber reinforced alkali-activated slag panels exposed to elevated temperatures. <i>Construction and Building Materials</i> , 2017, 152, 651-660.	3.2	29
47	Effect of glass microfibre addition on the mechanical performances of fly ash-based geopolymer composites. <i>Journal of Asian Ceramic Societies</i> , 2017, 5, 334-340.	1.0	34
48	Pull-out behavior of different fibers in geopolymer mortars: effects of alkaline solution concentration and curing. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	1.3	94
49	Modeling and optimization of compressive strength and bulk density of metakaolin-based geopolymer using central composite design: A numerical and experimental study. <i>Ceramics International</i> , 2017, 43, 324-335.	2.3	53
50	The Brittleness and Chemical Stability of Optimized Geopolymer Composites. <i>Materials</i> , 2017, 10, 396.	1.3	25
51	Suitability of Ambient-Cured Alccofine added Low-Calcium Fly Ash-based Geopolymer Concrete. <i>Indian Journal of Science and Technology</i> , 2017, 10, 1-10.	0.5	27
52	Design of fly ash geopolymer concrete mix proportions using Multivariate Adaptive Regression Spline model. <i>Construction and Building Materials</i> , 2018, 166, 472-481.	3.2	89
53	Experimental evaluation of quasi-static and dynamic compressive properties of ambient-cured high-strength plain and fiber reinforced geopolymer composites. <i>Construction and Building Materials</i> , 2018, 166, 482-499.	3.2	69
55	Effect of temperature on bond characteristics of geopolymer concrete. <i>Construction and Building Materials</i> , 2018, 163, 277-285.	3.2	110

#	ARTICLE	IF	CITATIONS
56	Experimental and mechanical performance of shotcrete made with nanomaterials and fiber reinforcement. <i>Construction and Building Materials</i> , 2018, 165, 199-205.	3.2	50
57	Fiber reinforced geopolymer from synergetic utilization of fly ash and waste tire. <i>Journal of Cleaner Production</i> , 2018, 178, 429-440.	4.6	101
58	Epoxy resin and ground tyre rubber replacement for cement in concrete: Compressive behaviour and durability properties. <i>Construction and Building Materials</i> , 2018, 173, 49-57.	3.2	44
59	Influence of fiber inclination angle on bond-slip behavior of different alkali-activated composites under dynamic and quasi-static loadings. <i>Cement and Concrete Research</i> , 2018, 107, 236-246.	4.6	20
60	Two statistical scrutinize of impact strength and strength reliability of steel Fibre-Reinforced Concrete. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 257-269.	0.9	35
61	Mechanical properties of ambient cured high strength hybrid steel and synthetic fibers reinforced geopolymer composites. <i>Cement and Concrete Composites</i> , 2018, 85, 133-152.	4.6	99
62	One-part alkali-activated materials: A review. <i>Cement and Concrete Research</i> , 2018, 103, 21-34.	4.6	813
64	Effects of carbon fiber on mechanical and electrical properties of fly ash geopolymer composite. <i>Materials Today: Proceedings</i> , 2018, 5, 14017-14025.	0.9	26
65	Mechanical properties and microstructure of metakaolin-based geopolymer compound-modified by polyacrylic emulsion and polypropylene fibers. <i>Construction and Building Materials</i> , 2018, 190, 680-690.	3.2	28
66	Engineering Properties of Ambient Cured Alkali-Activated Fly Ash "Slag Concrete Reinforced with Different Types of Steel Fiber. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	61
67	Improvement of physical and mechanical properties of geopolymer through addition of zircon. <i>Materials Chemistry and Physics</i> , 2018, 217, 90-97.	2.0	35
69	Mechanical and flexural performance of synthetic fibre reinforced geopolymer concrete. <i>Construction and Building Materials</i> , 2018, 186, 454-475.	3.2	150
70	Mechanical properties of ambient cured high-strength plain and hybrid fiber reinforced geopolymer composites from triaxial compressive tests. <i>Construction and Building Materials</i> , 2018, 185, 338-353.	3.2	50
71	Behaviour of Ambient Cured Steel Fibre Reinforced Geopolymer Concrete Columns Under Axial and Flexural Loads. <i>Structures</i> , 2018, 15, 184-195.	1.7	48
72	Tensile behavior and microstructure of hybrid fiber ambient cured one-part engineered geopolymer composites. <i>Construction and Building Materials</i> , 2018, 184, 419-431.	3.2	124
73	The Mechanical Properties and Chloride Resistance of Concrete Reinforced with Hybrid Polypropylene and Basalt Fibres. <i>Materials</i> , 2019, 12, 2371.	1.3	24
74	The Effects of Fiber Length and Volume on Material Properties and Crack Resistance of Basalt Fiber Reinforced Concrete (BFRC). <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-17.	1.0	45
75	Experimental and analytical investigation on flexural behaviour of ambient cured geopolymer concrete beams reinforced with steel fibers. <i>Engineering Structures</i> , 2019, 200, 109707.	2.6	55

#	ARTICLE	IF	CITATIONS
76	Iron-rich laterite-bagasse fibers based geopolymer composite: Mechanical, durability and insulating properties. <i>Applied Clay Science</i> , 2019, 183, 105333.	2.6	73
77	Hybrid fibre-reinforced geopolymer (HFRG) composites as an emerging material in retrofitting aging and seismically-deficient concrete and masonry structures. <i>MATEC Web of Conferences</i> , 2019, 289, 04003.	0.1	0
78	Composites obtained by recycling carbon fibre/epoxy composite wastes in building materials. <i>Construction and Building Materials</i> , 2019, 204, 296-302.	3.2	45
79	Mechanical properties and behaviour of high-strength plain and hybrid-fiber reinforced geopolymer composites under dynamic splitting tension. <i>Cement and Concrete Composites</i> , 2019, 104, 103343.	4.6	63
80	Performance characteristics of micro fiber-reinforced geopolymer mortars for repair. <i>Construction and Building Materials</i> , 2019, 215, 605-612.	3.2	69
81	Tensile performance of eco-friendly ductile geopolymer composites (EDGC) incorporating different micro-fibers. <i>Cement and Concrete Composites</i> , 2019, 103, 183-192.	4.6	65
82	Application of alkali-activated materials for water and wastewater treatment: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 271-297.	3.9	117
83	Utilization of metalized plastic waste of food packaging articles in geopolymer concrete. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 1014-1026.	1.6	32
84	Basalt-based fiber-reinforced materials and structural applications in civil engineering. <i>Composite Structures</i> , 2019, 214, 246-263.	3.1	197
85	Impact resistance of hybrid fibre reinforced concrete containing sisal fibres. <i>Ain Shams Engineering Journal</i> , 2019, 10, 297-305.	3.5	74
86	Optimization of matrix compositions of Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Caolin, and CaO on the mechanical properties of a geopolymer composite with short carbon fiber. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 602, 012079.	0.3	1
87	Large Toughening Effect in Biomimetic Geopolymer Composites via Interface Engineered 3D Skeleton. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 105-110.	3.2	13
88	Mechanical properties of high performance concrete reinforced with basalt fiber and polypropylene fiber. <i>Construction and Building Materials</i> , 2019, 197, 464-473.	3.2	294
89	Mechanical properties and in situ fracture behavior of SiO <sub>2</sub> /phosphate geopolymer composites. <i>Rare Metals</i> , 2020, 39, 562-569.	3.6	9
90	Natural fibers as reinforcement additives for geopolymers – A review of potential eco-friendly applications to the construction industry. <i>Sustainable Materials and Technologies</i> , 2020, 23, e00132.	1.7	81
91	Elevated temperature, freezing-thawing and wetting-drying effects on polypropylene fiber reinforced metakaolin based geopolymer composites. <i>Construction and Building Materials</i> , 2020, 235, 117502.	3.2	116
92	Sulfate resistance of hybrid fiber reinforced metakaolin geopolymer composites. <i>Composites Part B: Engineering</i> , 2020, 183, 107689.	5.9	102
93	Geopolymers as an alternative to Portland cement: An overview. <i>Construction and Building Materials</i> , 2020, 237, 117455.	3.2	336

#	ARTICLE	IF	CITATIONS
94	Effect of geogrid reinforcement on the drying shrinkage and thermal expansion of geopolymer concrete. <i>Structural Concrete</i> , 2020, 21, 1029-1039.	1.5	8
95	Mechanical Properties of Short Polymer Fiber-Reinforced Geopolymer Composites. <i>Journal of Composites Science</i> , 2020, 4, 128.	1.4	46
96	Experimental and analytical study of the mechanical and flexural behavior of hybrid fiber concretes. <i>Structures</i> , 2020, 28, 1746-1755.	1.7	17
97	Research on mechanical characteristics, fractal dimension and internal structure of fiber reinforced concrete under uniaxial compression. <i>Construction and Building Materials</i> , 2020, 258, 120351.	3.2	58
98	Prediction of mechanical properties of lightweight basalt fiber reinforced concrete containing silica fume and fly ash: Experimental and numerical assessment. <i>Journal of Building Engineering</i> , 2020, 32, 101732.	1.6	33
99	Hybrid steel/glass fiber-reinforced self-consolidating concrete considering packing factor: Mechanical and durability characteristics. <i>Structures</i> , 2020, 28, 956-972.	1.7	92
100	Bond performance of GFRP and steel rebars embedded in metakaolin based geopolymer concrete. <i>Structures</i> , 2020, 27, 1582-1593.	1.7	31
101	Flexural behavior of basalt fiber reinforced concrete beams: Finite element simulation with new constitutive relationships. <i>Structures</i> , 2020, 27, 1876-1889.	1.7	29
102	A survey on one year strength performance of reinforced geopolymer composites. <i>Construction and Building Materials</i> , 2020, 264, 120267.	3.2	19
103	Evaluation of Hybrid Melamine and Steel Fiber Reinforced Geopolymers Composites. <i>Materials</i> , 2020, 13, 5548.	1.3	27
104	Alkali-Activated Binders From Waste Incinerator Bottom Ashes and Metakaolin Reinforced by Recycled Carbon Fiber Composites. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	7
105	Compressive Strength of Coal Fly-ash Based Geopolymer with Integration of Graphene Nanosheets (GNs). <i>Journal of Physics: Conference Series</i> , 2020, 1655, 012005.	0.3	2
106	Effects of Graphene Oxide on the Mechanical and Microscopic Characteristics of Cement-Based Plugging Material for Preventing Spontaneous Combustion of Coal. <i>Energy &amp; Fuels</i> , 2020, 34, 6346-6354.	2.5	17
107	An experimental study on fracture energy of alkali activated slag composites incorporated different fibers. <i>Journal of Building Engineering</i> , 2020, 32, 101519.	1.6	29
108	Effect of Adding Methylcellulose on Mechanical and Vibration Properties of Geopolymer Paste and Hybrid Fiber-Reinforced Geopolymer Composite. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	9
109	Macro- and Micro-Properties of Engineered Cementitious Composites (ECCs) Incorporating Industrial Waste Materials: A Review. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7869-7895.	1.7	14
110	Properties of Fibrous Concrete Made with Plastic Optical Fibers from E-Waste. <i>Materials</i> , 2020, 13, 2414.	1.3	31
111	Comparative effects of using recycled CFRP and GFRP fibers on fresh- and hardened-state properties of self-compacting concretes: a review. , 2020, , 643-655.		5

#	ARTICLE	IF	CITATIONS
112	Utilization of industrial by-products and natural ashes in mortar and concrete development of sustainable construction materials. , 2020, , 247-303.		15
113	Fracture response of fiber-reinforced sodium carbonate activated slag mortars. Construction and Building Materials, 2020, 241, 118128.	3.2	23
114	Sustainable geopolymer composites reinforced with flax tows. Ceramics International, 2020, 46, 12870-12875.	2.3	28
115	Effect of basalt fiber on chloride ion penetration of Reactive Powder Concrete. IOP Conference Series: Materials Science and Engineering, 2020, 711, 012067.	0.3	3
116	Synthesis and characterization of a new class of geopolymer binder utilizing ferrochrome ash (FCA) for sustainable industrial waste management. Materials Today: Proceedings, 2020, 33, 5001-5006.	0.9	20
117	Recent advances in carbon nanotube-geopolymer composite. Construction and Building Materials, 2020, 252, 118940.	3.2	38
118	The role of nano-CaCO <sub>3</sub> in the mechanical performance of polyvinyl alcohol fibre-reinforced geopolymer composites. Composite Interfaces, 2021, 28, 527-542.	1.3	36
119	Mechanical properties and microstructure of glass fiber and polypropylene fiber reinforced concrete: An experimental study. Construction and Building Materials, 2021, 266, 121048.	3.2	110
120	Effect of high temperature on the mechanical properties of basalt fibre self-compacting concrete as an overlay material. Construction and Building Materials, 2021, 268, 121725.	3.2	66
121	Investigation on mechanical and microstructural properties of alkali-activated materials made of wood biomass ash and glass powder. Powder Technology, 2021, 377, 900-912.	2.1	19
122	Study on the mechanical properties and microstructure of chitosan reinforced metakaolin-based geopolymer. Construction and Building Materials, 2021, 271, 121522.	3.2	20
123	Development and testing of fast curing, mineral-impregnated carbon fiber (MCF) reinforcements based on metakaolin-made geopolymers. Cement and Concrete Composites, 2021, 116, 103898.	4.6	28
125	Mechanical Properties of Prosopis Juliflora Fiber Reinforced Concrete. Journal of Natural Fibers, 2022, 19, 4156-4169.	1.7	8
126	Behavior of axially loaded plain and fiber-reinforced geopolymer concrete columns with glass fiber-reinforced polymer cages. Structural Concrete, 2021, 22, 1800-1816.	1.5	15
127	Lif takviyeli pirinÅ kabuÅ k¼¼ ikameli beyaz Åsimentolu harÅlar±n baz± mekanik Åzelliklerinin incelenmesi. Bal±kesir Åcniversitesi Fen Bilimleri Enstit¼¼ Dergisi, 2021, 23, 543-559.	0.2	2
128	Application of Secondary Carbon Fiber for Reinforcing Composite Material Based on Alkali-Activated Blast-Furnace Slag. Glass and Ceramics (English Translation of Steklo I Keramika), 2021, 77, 429-431.	0.2	1
129	Effect of Glass Fibers on the Mechanical Behavior as Well as Energy Absorption Capacity and Toughness Indices of Concrete Bridge Decks. Silicon, 2022, 14, 2283-2297.	1.8	3
130	Mechanical Properties and Durability of Deep Soil-Cement Column Reinforced by Jute and PVA Fiber. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	8



#	ARTICLE	IF	CITATIONS
131	Experimental research on ductility enhancement of ultra-high performance concrete incorporation with basalt fibre, polypropylene fibre and glass fibre. <i>Construction and Building Materials</i> , 2021, 279, 122489.	3.2	66
132	Enhancing the performance and environmental impact of alkali-activated binder-based composites containing graphene oxide and industrial by-products. <i>Construction and Building Materials</i> , 2021, 284, 122811.	3.2	26
133	Flexural behavior of hybrid fibre-reinforced geopolymer composites (FRGC)-jacketed RC beams. <i>Engineering Structures</i> , 2021, 235, 112053.	2.6	11
134	Physicochemical properties of geopolymer composites with DFT calculations of in-situ reduction of graphene oxide. <i>Ceramics International</i> , 2021, 47, 13440-13445.	2.3	3
135	Effect of partial replacement of geopolymer binder materials on the fresh and mechanical properties: A review. <i>Ceramics International</i> , 2021, 47, 14923-14943.	2.3	32
136	Geopolymers and Fiber-Reinforced Concrete Composites in Civil Engineering. <i>Polymers</i> , 2021, 13, 2099.	2.0	47
137	Behavior of Quarry Rock Dust, Fly Ash and Slag Based Geopolymer Concrete Columns Reinforced with Steel Fibers under Eccentric Loading. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6740.	1.3	6
138	Assessment of effective patching material for concrete bridge deck -A review. <i>Construction and Building Materials</i> , 2021, 293, 123520.	3.2	14
139	Mechanical and fracture behavior of geopolymer composites reinforced with fibers by using nano-TiO <sub>2</sub> . <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	8
140	Effect of binder content and recycled concrete aggregate on freeze-thaw and sulfate resistance of GGBFS based geopolymer concretes. <i>Construction and Building Materials</i> , 2021, 301, 124246.	3.2	32
141	Effect of Short Fibres in the Mechanical Properties of Geopolymer Mortar Containing Oil-Contaminated Sand. <i>Polymers</i> , 2021, 13, 3008.	2.0	14
142	Chemo-mechanical properties of carbon fiber reinforced geopolymer interphase. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1519-1532.	1.9	6
143	Performance of engineered fibre reinforced concrete (EFRC) under different load regimes: A review. <i>Construction and Building Materials</i> , 2021, 306, 124692.	3.2	11
144	Dynamic properties of PVA short fiber reinforced low-calcium fly ash - slag geopolymer under an SHPB impact load. <i>Journal of Building Engineering</i> , 2021, 44, 103220.	1.6	16
145	Impact of fiber reinforcements on properties of geopolymer composites: A review. <i>Journal of Building Engineering</i> , 2021, 44, 102628.	1.6	54
146	Multifunctional Cement Mortars Enhanced with Graphene Nanoplatelets and Carbon Nanotubes. <i>Sensors</i> , 2021, 21, 933.	2.1	23
148	Flexural Behavior and Single Fiber-Matrix Bond-Slip Behavior of Macro Fiber Reinforced Fly Ash-Based Geopolymers. , 2018, , 2338-2346.		2
149	Effect of basalt fibers on fracture energy and mechanical properties of HSC. <i>Computers and Concrete</i> , 2016, 17, 553-566.	0.7	8

#	ARTICLE	IF	CITATIONS
150	Effect of Carbon Fibers on Thermal and Mechanical Properties of Metakaolin-Fly Ash-Based Geopolymers. ACI Materials Journal, 2014, 112, .	0.3	2
151	OPTIMIZATION OF GEOPOLYMER CONCRETE BY PRINCIPAL COMPONENT ANALYSIS. ACI Materials Journal, 2017, 114, .	0.3	2
152	Mechanical properties of wood-geopolymer composite. , 2017, , .		10
153	Effect of Micro Polypropylene Fibre on the Performance of Fly Ash-Based Geopolymer Concrete. Journal of Applied Engineering Sciences, 2019, 9, 97-108.	0.2	4
155	STRUCTURAL PERFORMANCE OF CONCRETE ELEMENTS RETROFITTED BY A GEOPOLYMER STRENGTHENING SYSTEM: INPUT IN THE REHABILITATION OF HISTORICAL BUILDINGS. , 2019, , .		0
156	Influence of Polypropylene and Glass Fibers on Alkali- Activated Slag/Fly Ash Concrete. ACI Structural Journal, 2020, 117, .	0.3	1
157	Studies of Concrete Mechanical Properties with Basalt Fibers. IOP Conference Series: Materials Science and Engineering, 2020, 1006, 012031.	0.3	7
159	Discussion on the suitability of dynamic constitutive models for prediction of geopolymer concrete structural responses under blast and impact loading. International Journal of Impact Engineering, 2022, 160, 104064.	2.4	15
160	Fiber-reinforced alkali-activated concrete: A review. Journal of Building Engineering, 2022, 45, 103638.	1.6	66
161	Influence of alkalinity on self-treatment process of natural fiber and properties of its geopolymeric composites. Construction and Building Materials, 2022, 316, 125817.	3.2	17
162	Mechanical properties of alkali-activated concrete containing crumb rubber particles. Case Studies in Construction Materials, 2022, 16, e00803.	0.8	3
163	Geopolymers Reinforced with Natural Fibers: A Comparison among Different Sources. Applied Sciences (Switzerland), 2021, 11, 11026.	1.3	8
164	Highly ductile fiber reinforced geopolymers under tensile impact. Cement and Concrete Composites, 2022, 126, 104374.	4.6	14
165	Durability of Cellulosic-Fiber-Reinforced Geopolymers: A Review. Molecules, 2022, 27, 796.	1.7	21
166	Effect of Steel Fiber Additive on High Temperature Resistance in Geopolymer Mortars. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 1949-1967.	1.0	7
167	Fabrication of syntactic foam fillers <i>via</i> integrated on/off-chip microfluidic methods for optimized geopolymer composites. Lab on A Chip, 2022, 22, 836-847.	3.1	5
168	Mechanical and durability properties of steel, polypropylene and polyamide fiber reinforced slag-based alkali-activated concrete. European Journal of Environmental and Civil Engineering, 2023, 27, 114-139.	1.0	4
169	State of the art, challenges, and emerging trends: Geopolymer composite reinforced by dispersed steel fibers. Reviews on Advanced Materials Science, 2022, 61, 1-15.	1.4	9

#	ARTICLE	IF	CITATIONS
170	Microstructure and flexural performances of glass fibers reinforced phosphate sludge based geopolymers at elevated temperatures. <i>Case Studies in Construction Materials</i> , 2022, 16, e00928.	0.8	9
171	Mechanical performance of metakaolin-based geopolymer mortar blended with multi-walled carbon nanotubes. <i>Ceramics International</i> , 2022, 48, 16188-16195.	2.3	18
172	Geopolymers and Functionalization Strategies for the Development of Sustainable Materials in Construction Industry and Cultural Heritage Applications: A Review. <i>Materials</i> , 2022, 15, 1725.	1.3	20
173	Influence of steel fiber and polyvinyl alcohol fiber on properties of high performance concrete. <i>Structural Concrete</i> , 2022, 23, 1687-1703.	1.5	8
174	Strength, Elastic Properties and Fiber-Matrix Interaction Mechanism in Geopolymer Composites. <i>Polymers</i> , 2022, 14, 1248.	2.0	2
175	The greening of engineered cementitious composites (ECC): A review. <i>Construction and Building Materials</i> , 2022, 327, 126701.	3.2	65
176	A state-of-the-art review on fibre-reinforced geopolymer composites. <i>Construction and Building Materials</i> , 2022, 330, 127187.	3.2	42
177	Flexural behaviour of concrete-basalt FRC beams with steel bars under concentrated load. <i>Structures</i> , 2022, 39, 237-252.	1.7	4
178	Shrinkage behavior and mechanical properties of alkali activated mortar incorporating nanomaterials and polypropylene fiber. <i>Ceramics International</i> , 2022, 48, 23159-23171.	2.3	24
179	Experimental Analysis of Bearing Capacity of Basalt Fiber Reinforced Concrete Short Columns under Axial Compression. <i>Coatings</i> , 2022, 12, 654.	1.2	24
180	A review on basalt fibre reinforced polymeric composite materials. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	31
181	Performance of Geopolymer Mortar and Steel Fiber Reinforced Geopolymer Mortar on Rehabilitation of Seismically Detailed Beam-Column Joint. <i>Journal of Earthquake Engineering</i> , 2023, 27, 1607-1628.	1.4	1
182	Compressive Behavior of Concrete Containing Glass Fibers and Confined with Glass FRP Composites. <i>International Journal of Concrete Structures and Materials</i> , 2022, 16, .	1.4	4
183	Structural behavior and vibration characteristics of geopolymer composite lightweight sandwich panels for prefabricated buildings. <i>Journal of Building Engineering</i> , 2022, 57, 104872.	1.6	4
184	Effects of coarse aggregate and wavy steel fiber volumes on the critical stress intensity factors of modes I and III cracks in self-compacting concrete using ENDB specimens. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 121, 103421.	2.1	10
185	Degradation Kinetics and Durability Enhancement Strategies of Cellulosic Fiber-Reinforced Geopolymers and Cement Composites. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-22.	1.0	6
186	Mechanical properties of engineered geopolymer composite with graphene nanoplatelet. <i>Ceramics International</i> , 2022, 48, 34915-34930.	2.3	8
187	For the improvement of toughness and volume stability of alkali-activated slag with styrene-acrylic emulsion. <i>Journal of Building Engineering</i> , 2022, 58, 105040.	1.6	0

#	ARTICLE	IF	CITATIONS
188	Mechanical characteristics of hardened basalt fiber expanded clay concrete cylinders. <i>Case Studies in Construction Materials</i> , 2022, 17, e01368.	0.8	0
189	Elevated Temperature Properties of Bamboo Shaving Reinforced Geopolymer Composites. <i>Journal of Renewable Materials</i> , 2023, 11, 27-40.	1.1	3
190	Mix design, mechanical properties and durability of the rubberized geopolymer concrete: A review. <i>Case Studies in Construction Materials</i> , 2022, 17, e01480.	0.8	1
191	Sustainable Design of Geopolymer-Based Materials for Artistic and Restoration Applications. <i>SSRN Electronic Journal</i> , 0, , .	0.4	7
192	Splitting- and Direct-Tensile Strengths of Ambient Cured Geopolymer Concrete with Glass Fibers. <i>Lecture Notes in Civil Engineering</i> , 2023, , 109-117.	0.3	0
193	Study on the flexural properties and fiber selection method of fiber-reinforced geopolymer concrete. <i>Structural Concrete</i> , 0, , .	1.5	5
194	Experimental investigation into the temperature effect on the shear behavior of the fiber-reinforced interface between rock and cemented paste backfill. <i>Construction and Building Materials</i> , 2022, 356, 129280.	3.2	8
195	Failure process of steel-polypropylene hybrid fiber-reinforced concrete based on numerical simulations. <i>Science and Engineering of Composite Materials</i> , 2022, 29, 299-311.	0.6	2
196	A Review on the Incorporation of Diatomaceous Earth as a Geopolymer-Based Concrete Building Resource. <i>Materials</i> , 2022, 15, 7130.	1.3	9
197	A review of the role of elevated temperatures on the mechanical properties of fiber-reinforced geopolymer (FRG) composites. <i>Cement and Concrete Composites</i> , 2023, 137, 104885.	4.6	13
198	Carbonation performances of steel fiber reinforced geopolymer concrete. <i>Canadian Journal of Civil Engineering</i> , 2023, 50, 294-305.	0.7	2
199	Development of Geopolymer-Based Materials with Ceramic Waste for Artistic and Restoration Applications. <i>Materials</i> , 2022, 15, 8600.	1.3	5
200	Understanding the role of interfacial transition zone in cement paste and concrete. <i>Materials Today: Proceedings</i> , 2023, 80, 877-881.	0.9	3
201	Impact of High Aspect Ratios and Reinforcing Indexes on Mechanical Properties of Hybrid and Non-Hybrid Chopped Glass Fiber Reinforced Concrete. <i>ACS Omega</i> , 2022, 7, 46798-46808.	1.6	1
202	Sustainable Materials Based on Geopolymer-Polyvinyl Acetate Composites for Art and Design Applications. <i>Polymers</i> , 2022, 14, 5461.	2.0	6
203	Natural fibers as an alternative to synthetic fibers in the reinforcement of phosphate sludge-based geopolymer mortar. <i>Journal of Building Engineering</i> , 2023, 67, 105947.	1.6	4
204	Prediction of compressive strength fiber-reinforced geopolymer concrete (FRGC) using gene expression programming (GEP). <i>Materials Today: Proceedings</i> , 2023, , .	0.9	1
205	Effects of various additives on the crumb rubber integrated geopolymer concrete. <i>Cleaner Materials</i> , 2023, 8, 100181.	1.9	13

#	ARTICLE	IF	CITATIONS
206	Investigation on the impact resistance of reinforced geopolymer concrete slab. Journal of Cleaner Production, 2023, 406, 137144.	4.6	3
207	Asses the Use of Calcium Carbide for Increasing Mechanical and Thermal Properties of Alkali Activated GGBFS-MK Precursor. European Journal of Advanced Chemistry Research, 2023, 4, 6-14.	0.4	0
208	Experimental and analytical study of the flexural behavior of basalt fiber reinforced concrete beams. Structural Concrete, 2023, 24, 2342-2362.	1.5	0
209	Mechanical properties of ambient cured fly ash slag based engineered geopolymer composites with different types of fibers. Structural Concrete, 2023, 24, 2363-2383.	1.5	2
210	Using Random Forest and Random Tree model to Predict the splitting tensile strength for the concrete with basalt fiber reinforced concrete. IOP Conference Series: Earth and Environmental Science, 2023, 1110, 012072.	0.2	2
211	Geopolymer Materials for Bone Tissue Applications: Recent Advances and Future Perspectives. Polymers, 2023, 15, 1087.	2.0	10
212	Influence of wood pretreatment, hardwood and softwood extractives on the compressive strength of fly ash-based geopolymer composite. Journal of Materials Science, 2023, 58, 5625-5641.	1.7	2
213	Effect of fly ash/activator ratio on strength development of fly ash based geopolymer paste. AIP Conference Proceedings, 2023, , .	0.3	0
222	Mechanical performance of steel fiber-reinforced alkali-activated composites. , 2023, , 191-223.		0
223	Durability of synthetic fiber-reinforced alkali-activated composites. , 2023, , 449-472.		0
224	Mechanical performance of carbon fiber-reinforced alkali-activated composites. , 2023, , 225-242.		0
228	A Review of Shear Strength of Hybrid Fiber Reinforced Geopolymer Concrete under Ambient Condition. , 0, , .		0