## Effect of glass powders on the mechanical and durabilit materials

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**Citation Report** 

#	Article	IF	CITATIONS
1	An investigation into the hydration and microstructure of cement pastes modified with glass powders. Construction and Building Materials, 2016, 112, 915-924.	3.2	93
2	Performance of concrete made with steel slag and waste glass. Construction and Building Materials, 2016, 114, 737-746.	3.2	120
3	An investigation into the influence of superabsorbent polymers on the properties of glass powder modified cement pastes. Construction and Building Materials, 2017, 149, 236-247.	3.2	27
4	Experimental study on the mechanical and durability properties of concrete with waste glass powder and ground granulated blast furnace slag as supplementary cementitious materials. Construction and Building Materials, 2017, 156, 739-749.	3.2	84
5	Improving the performance of architectural mortar containing 100% recycled glass aggregates by using SCMs. Construction and Building Materials, 2017, 153, 975-985.	3.2	49
6	Using glass powder to improve the durability of architectural mortar prepared with glass aggregates. Materials and Design, 2017, 135, 102-111.	3.3	75
7	The use of glass powder as a partial Portland cement replacement. AIP Conference Proceedings, 2017, , .	0.3	2
8	Mechanical Fracture Parameters of Cement Based Mortars with Waste Glass Powder. Procedia Engineering, 2017, 190, 86-91.	1.2	12
9	Study on Strength and Durability Characteristics of Concrete with Ternary Blend. IOP Conference Series: Earth and Environmental Science, 2017, 80, 012022.	0.2	0
10	An Investigation into the Properties and Microstructure of Cement Mixtures Modified with Cellulose Nanocrystal. Materials, 2017, 10, 498.	1.3	47
11	Improvement of early-age properties for glass-cement mortar by adding nanosilica. Cement and Concrete Composites, 2018, 89, 18-30.	4.6	56
12	Use of glass powder residue for the elaboration of eco-efficient cementitious materials. Journal of Cleaner Production, 2018, 184, 333-341.	4.6	36
13	Effect of microwave curing on the hydration properties of cement-based material containing glass powder. Construction and Building Materials, 2018, 158, 563-573.	3.2	25
14	Compressive strength and microstructure analysis of geopolymer paste using waste glass powder and fly ash. Journal of Cleaner Production, 2018, 172, 2892-2898.	4.6	169
15	Production and Properties of Glass Cullet. , 2018, , 35-96.		2
16	Use of Ground Glass Cullet as Cement Component. , 2018, , 97-166.		0
17	Influence of Waste Glass Powder Addition on the Pore Structure and Service Properties of Cement Mortars. Sustainability, 2018, 10, 842.	1.6	14
18	From Julius Caesar to Sustainable Composite Materials: A Passage through Port Caisson Technology. Sustainability, 2018, 10, 1225.	1.6	3

ARTICLE IF CITATIONS A comprehensive review on mechanical and durability properties of cement-based materials containing 19 4.6 109 waste recycled glass. Journal of Cleaner Production, 2018, 198, 891-906. Effect of using glass powder as cement replacement on rheological and mechanical properties of 3.2 89 cement paste. Construction and Building Materials, 2018, 179, 326-335. Sustainable reuse of waste glass and incinerated sewage sludge ash in insulating building products: 21 4.6 51 Functional and durability assessment. Journal of Cleaner Production, 2019, 236, 117635. Strength, Durability, and Thermal Properties of Glass Aggregate Mortars. Journal of Materials in Civil Engineering, 2019, 31, . Co-utilization of waste glass cullet and glass powder in precast concrete products. Construction 23 3.2 55 and Building Materials, 2019, 223, 210-220. Employing atomic force microscopy technique and X-ray diffraction analysis to examine nanostructure and phase of glass concrete. European Journal of Environmental and Civil 1.0 Engineering, 2019, , 1-19. Cement pastes modified with recycled glass and supplementary cementitious materials: Properties at 25 4.6 24 the ambient and high temperatures. Journal of Cleaner Production, 2019, 241, 118155. Effect of new mixing method of glass powder as cement replacement on mechanical behavior of 3.2 26 90 concrete. Construction and Building Materials, 2019, 203, 75-82. An investigation into the properties of ternary and binary cement pastes containing glass powder. 27 1.2 21 Frontiers of Structural and Civil Engineering, 2019, 13, 741-750. ASR expansions at the level of a single glass-cement paste interface: experimental results and proposal 3.2 of a reaction-expansion mechanism. Construction and Building Materials, 2019, 218, 108-118. Use of Waste Glass as A Replacement for Raw Materials in Mortars with a Lower Environmental 29 1.6 35 Impact. Energies, 2019, 12, 1974. A critical review of waste glass powder – Multiple roles of utilization in cement-based materials and 3.8 construction products. Journal of Environmental Management, 2019, 242, 440-449. Effect of various glass aggregates on the shrinkage and expansion of cement mortar. Construction and Building Materials, 2019, 210, 301-311.  $\mathbf{31}$ 3.2 58 Effect of immersion time of glass powder on mechanical properties of concrete contained glass 3.2 29 powder as cement replacement. Construction and Building Materials, 2019, 206, 674-682 The Behavior of Superabsorbent Polymers (SAPs) in Cement Mixtures with Glass Powders as 33 1.3 11 Supplementary Cementitious Materials. Materials, 2019, 12, 3597. Sustainable use of recycled waste glass as an alternative material for building construction – A review. IOP Conference Series: Materials Science and Engineering, 2019, 640, 012073. Glass powder as replacement of cement for concrete â€" an investigative study. European Journal of 35 1.0 19 Environmental and Civil Engineering, 2022, 26, 1046-1063. Effective utilization of waste glass powder as the substitution of cement in making paste and mortar. Construction and Building Materials, 2019, 199, 406-415.

#	ARTICLE	IF	CITATIONS
37	Mix design of the green self-consolidating concrete: Incorporating the waste glass powder. Construction and Building Materials, 2019, 199, 369-384.	3.2	46
38	Creep behavior of concrete containing glass powder. Composites Part B: Engineering, 2019, 166, 13-20.	5.9	92
39	Silica fume and waste glass in cement concrete production: A review. Journal of Building Engineering, 2020, 29, 100888.	1.6	149
40	Properties of cement mortar in substitution with waste fine glass powder and environmental impact study. Journal of Building Engineering, 2020, 27, 100940.	1.6	27
41	Reuse of waste glass as a supplementary binder and aggregate for sustainable cement-based construction materials: A review. Journal of Building Engineering, 2020, 28, 101052.	1.6	62
42	Utilisation of coarse glass powder as pozzolanic cement—A mix design investigation. Construction and Building Materials, 2020, 240, 117916.	3.2	30
43	Mechanical performance of engineered cementitious composites incorporating recycled glass powder. Canadian Journal of Civil Engineering, 2020, 47, 1311-1319.	0.7	13
44	Assessment of long-term reactivity of initially lowly-reactive solid wastes as supplementary cementitious materials (SCMs). Construction and Building Materials, 2020, 232, 117192.	3.2	36
45	Influence of waste glass powder on the physico-mechanical properties and microstructures of fly ash-based geopolymer paste after exposure to high temperatures. Construction and Building Materials, 2020, 262, 120579.	3.2	94
46	High volume Portland cement replacement: A review. Construction and Building Materials, 2020, 260, 120445.	3.2	102
47	Effect of Waste Glass Addition as a Replacement for Fine Aggregate on Properties of Mortar. Materials, 2020, 13, 3189.	1.3	69
48	Durability of High Volume Glass Powder Self-Compacting Concrete. Applied Sciences (Switzerland), 2020, 10, 8058.	1.3	9
49	Assessing the modification efficiency of waste glass powder in hydraulic construction materials. Construction and Building Materials, 2020, 263, 120111.	3.2	16
50	Steatite Powder Additives in Wood-Cement Drywall Particleboards. Materials, 2020, 13, 4813.	1.3	4
51	Incorporation of glass powder and metakaolin as cement partial replacement to improve concrete mechanical properties and increase service life. Journal of Composite Materials, 2020, 54, 2965-2983.	1.2	7
52	Durability of concrete containing recycled concrete coarse and fine aggregates and milled waste glass in magnesium sulfate environment. Journal of Building Engineering, 2020, 29, 101182.	1.6	30
53	A review of ground waste glass as a supplementary cementitious material: A focus on alkali-silica reaction. Journal of Cleaner Production, 2020, 257, 120180.	4.6	71
54	Use of construction and demolition waste (CDW) for alkali-activated or geopolymer concrete. , 2020, , 385-403.		13

#	Article	IF	CITATIONS
55	Glass powder as a partial precursor in Portland cement and alkali-activated slag mortar: A comprehensive comparative study. Construction and Building Materials, 2020, 251, 118991.	3.2	68
56	Experimental investigation of waste glass powder, basalt fibre, and carbon nanotube on the mechanical properties of concrete. Construction and Building Materials, 2020, 252, 119115.	3.2	49
57	The past and future of sustainable concrete: A critical review and new strategies on cement-based materials. Journal of Cleaner Production, 2021, 281, 123558.	4.6	181
58	Utilization of liquid crystal display (LCD) waste glass powder as cementitious binder in mortar for enhancing neutron shielding performance. Construction and Building Materials, 2021, 270, 121859.	3.2	10
59	Effect of wastes as supplementary cementitious materials on the transport properties of concrete. , 2021, , 191-227.		3
60	Evaluation of the Possibility of Replacing Fly Ash with Glass Powder in Lower-Strength Concrete Mixes. Applied Sciences (Switzerland), 2021, 11, 396.	1.3	11
61	Effect of Ground Waste Glass Addition on the Strength and Durability of Low Strength Concrete Mixes. Materials, 2021, 14, 190.	1.3	20
62	A review: Properties of eco-friendly ultra-high-performance concrete incorporated with waste glass as a partial replacement for cement. Materials Today: Proceedings, 2021, 42, 1958-1965.	0.9	27
63	Combined effect of waste glass powder and recycled steel fibers on mechanical behavior of concrete. SN Applied Sciences, 2021, 3, 1.	1.5	16
64	Eco-efficient cementitious composites with large amounts of waste glass and plastic. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2022, 175, 64-74.	0.4	4
65	Effects after 1500 Hardening Days on the Microstructure and Durability-Related Parameters of Mortars Produced by the Incorporation of Waste Glass Powder as a Clinker Replacement. Sustainability, 2021, 13, 3979.	1.6	3
66	Exploring the Effects of the Substitution of Freshly Mined Sands with Recycled Crushed Glass on the Properties of Concrete. Applied Sciences (Switzerland), 2021, 11, 3318.	1.3	8
67	Thermophysical Properties of Cement Mortar Containing Waste Glass Powder. Crystals, 2021, 11, 488.	1.0	14
68	Sustainable Utilization of Waste Class in Concrete: a Review. Silicon, 2022, 14, 3199-3214.	1.8	19
69	Utilization of inorganic solid wastes in cementitious materials – A systematic literature review. Construction and Building Materials, 2021, 285, 122833.	3.2	31
70	Physical and Mechanical Properties of Sustainable Hydraulic Mortar Based on Marble Slurry with Waste Class. Recycling, 2021, 6, 37.	2.3	2
71	Waste Glass Utilization in Cement-Based Materials for Sustainable Construction: A Review. Crystals, 2021, 11, 710.	1.0	24
72	Reutilisation of hazardous spent fluorescent lamps glass waste as supplementary cementitious material. Construction and Building Materials, 2021, 292, 123424.	3.2	15

#	Article	IF	CITATIONS
73	Review of using glass in high-performance fiber-reinforced cementitious composites. Cement and Concrete Composites, 2021, 120, 104032.	4.6	26
74	Development and characteristics of ultra high-performance lightweight cementitious composites (UHP-LCCs). Cement and Concrete Research, 2021, 145, 106462.	4.6	49
75	Durability Aspects and mechanical strength of mortars containing glass powder and slag. Advances in Cement Research, 0, , 1-27.	0.7	0
76	Effect of water-to-cement ratio and soaking time of waste glass powder on the behaviour of green concrete. Construction and Building Materials, 2021, 299, 124285.	3.2	9
77	Study on the performance of pervious concrete mixed with waste glass powder. Construction and Building Materials, 2021, 300, 123997.	3.2	22
78	Effect of the addition of nano glass powder on the compressive strength of high volume fly ash modified concrete. Materials Today: Proceedings, 2022, 48, 1789-1795.	0.9	28
79	A comprehensive review on performance of cementitious and geopolymeric concretes with recycled waste glass as powder, sand or cullet. Resources, Conservation and Recycling, 2021, 172, 105664.	5.3	101
80	Use of glass powder residue as an eco-efficient supplementary cementitious material. Construction and Building Materials, 2021, 304, 124640.	3.2	10
81	Effect of nanomaterials inclusion on sustainability of cement-based concretes: A comprehensive review. Construction and Building Materials, 2021, 306, 124850.	3.2	86
82	State of the art on the application of waste materials in geopolymer concrete. Case Studies in Construction Materials, 2021, 15, e00637.	0.8	19
83	Physical and Mechanical Properties of Polypropylene Fibre-Reinforced Cement–Glass Composite. Materials, 2021, 14, 637.	1.3	30
84	New perspectives on recycling waste glass in manufacturing concrete for sustainable civil infrastructure. Construction and Building Materials, 2020, 257, 119579.	3.2	113
85	Field Application of Recycled Glass Pozzolan for Concrete. ACI Materials Journal, 2019, 116, .	0.3	7
86	On the Interaction between Superabsorbent Hydrogels and Blended Mixtures with Supplementary Cementitious Materials. Advances in Civil Engineering Materials, 2018, 7, 567-589.	0.2	3
87	Sustainable Use of Recycled Glass Powder as Cement Replacement in Concrete. The Open Waste Management Journal, 2020, 13, 1-13.	2.8	27
88	Freeze–Thaw Resistance and Air-Void Analysis of Concrete with Recycled Glass–Pozzolan Using X-ray Micro-Tomography. Materials, 2021, 14, 154.	1.3	7
89	Influence of soda-lime waste glass microparticles on workability and thermal properties of portland cement compounds. Materiales De Construccion, 2019, 69, 192.	0.2	3
90	GERİ DÖNÜŞTÜRÜLMÜŞ CAM TOZUYLA ÜRETİLEN STANDART HARÇLARIN TEMEL DURABİLİT Halisdemir Üniversitesi Mübendislib Bilimleri Dergisi, 0	ĒÃ <u>-</u> ZELL	İKLERİ. Ä

#	Article	IF	CITATIONS
91	Performance of concrete with the incorporation of waste from the process of stoning and polishing of glass as partial replacement of cement. Revista IBRACON De Estruturas E Materiais, 2020, 13, 613-627.	0.3	4
92	A systematic review of waste materials in cement-based composites for construction applications. Journal of Building Engineering, 2022, 45, 103447.	1.6	38
93	Influence of waste glass powder and hybrid fibers on high strength concrete. AIP Conference Proceedings, 2020, , .	0.3	0
94	Effect of Immersion Time on the Mechanical Properties of Glass Fibre Reinforced Concrete with Glass Powder Immersed in Water. Lecture Notes in Civil Engineering, 2021, , 481-490.	0.3	0
95	Roles of Waste Glass and the Effect of Process Parameters on the Properties of Sustainable Cement and Geopolymer Concrete—A State-of-the-Art Review. Polymers, 2021, 13, 3935.	2.0	15
96	Microstructure and mechanical properties of ternary mortars with brick powder, glass powder, slag, fly ash, and limestone. International Journal of Applied Ceramic Technology, 2022, 19, 2135-2147.	1.1	2
97	Rheological and Hardened Properties of Self-Compacting Concrete Using Hollow Glass Microspheres as a Partial Replacement of Cement. SSRN Electronic Journal, 0, , .	0.4	0
98	Life Cycle Assessment of Waste Glass Powder Incorporation on Concrete: A Bridge Retrofit Study Case. Applied Sciences (Switzerland), 2022, 12, 3353.	1.3	6
99	Performance of waste glass powder as a pozzolanic material in blended cement mortar. Construction and Building Materials, 2022, 324, 126531.	3.2	20
100	Physico-thermal and microstructural properties of thermal-efficient mortars made with low cement content. Construction and Building Materials, 2022, 325, 126850.	3.2	3
101	Early-age mechanical properties and microstructures of Portland cement mortars containing different admixtures exposed to seawater. Case Studies in Construction Materials, 2022, 16, e01041.	0.8	2
102	Potential utilization of waste glass powder as a precursor material in synthesizing ecofriendly ternary blended geopolymer matrix. Journal of Cleaner Production, 2022, 355, 131860.	4.6	17
103	A state-of-the-art review of crushed urban waste glass used in OPC and AAMs (geopolymer): Progress and challenges. Cleaner Materials, 2022, 4, 100083.	1.9	45
104	Estimación de las emisiones de CO2 de concretos con residuos de vidrio. Revista Politécnica, 2022, 18, 52-70.	0.0	0
105	Waste glass as a precursor in alkaliâ€activated materials: Mechanical, durability, and microstructural properties. Structural Concrete, 0, , .	1.5	2
106	Environmental Benefits of Using Glass Powder in Manhole Production. , 2017, , .		0
107	Modeling the compressive strength of concrete containing waste glass using multi-objective automatic regression. Neural Computing and Applications, 2022, 34, 17107-17127.	3.2	4
108	Use of Natural Zeolite and Glass Powder Mixture as Partial Replacement of Portland Cement: The Effect on Hydration, Properties and Porosity. Materials, 2022, 15, 4219.	1.3	8

		CITATION REPORT		
#	ARTICLE Improved strength performance of rubberized Concrete: Role of ground blast furnace sl	ag and waste	IF	CITATIONS
109	glass bottle nanoparticles amalgamation. Construction and Building Materials, 2022, 34	42, 128073.	3.2	10
110	Rheological and hardened properties of self-compacting concrete using hollow glass mi as a partial replacement of cement. Construction and Building Materials, 2022, 342, 12	crospheres 8012.	3.2	3
111	New insights into the use of glass cullet in cement composites - Long term examination Concrete Composites, 2022, 133, 104673.	s. Cement and	4.6	6
112	Chloride Ingress Resistance, Microstructure and Mechanical Properties of Lightweight N Natural Cork and Expanded Clay Prepared Using Sustainable Blended Cements. Journal Science and Engineering, 2022, 10, 1174.	lortars with of Marine	1.2	2
113	Use of waste glass fines to improve rigidity ratio of asphalt. Cogent Engineering, 2022,	9, .	1.1	2
114	Long-Term Sulfate Resistance of Blended Cement Concrete with Waste Glass Powder. F Periodical on Structural Design and Construction, 2022, 27, .	Practice	0.7	2
115	Behavior of Waste Glass Powder in Concrete Deep Beams with Web Openings. Building	js, 2022, 12, 1334.	1.4	2
116	Replacement of Natural Aggregate by Glass Waste in Granilite Concrete. Lecture Notes Engineering, 2023, , 849-860.	in Civil	0.3	0
117	Potential utilization of waste materials for the production of green concrete: A review. I Today: Proceedings, 2022, 69, 317-322.	Vaterials	0.9	12
118	Strength development and microcosmic mechanism of waste glass powder cement mo Experimental Nanoscience, 2022, 17, 564-584.	rtar. Journal of	1.3	2
120	Performance analysis of concrete with repurposed industrial glass waste. Journal of Buil Pathology and Rehabilitation, 2023, 8, .	ding	0.7	4
121	Effects of Silica Fume and Micro Silica on the Properties of Mortars Containing Waste P Fibers. Microplastics, 2022, 1, 587-609.	VC Plastic	1.6	3
122	Corrosion of rebars in recycled glass concrete under tropical marine environment. Materialwissenschaft Und Werkstofftechnik, 2022, 53, 1410-1420.		0.5	0
123	Innovative use of agro-waste cane bagasse ash and waste glass as cement replacement concrete. Cost analysis and carbon dioxide emissions. Journal of Cleaner Production, 20 134822.	for green 22, 379,	4.6	13
124	Mechanical Behavior, Microstructure, and Chloride-Penetration Resistance of Glass Was Nanopowder Magnetic Concrete. Journal of Construction Engineering and Managemen 149, .	ite t - ASCE, 2023,	2.0	0
125	Effective Microorganisms and Class Nanopowders from Waste Bottle Inclusion on Early Microstructure Properties of High-Volume Fly-Ash-Based Concrete. Biomimetics, 2022,	Strength and 7, 190.	1.5	2
126	Early-Age Properties Development of Recycled Glass Powder Blended Cement Paste: Str Shrinkage, Nanoscale Characteristics, and Environmental Analysis. Journal of Renewable 2023, 11, 1835-1852.	engths, Materials,	1.1	0
127	Effects of Waste Glass Powder on Properties of Self-Compacting Repair Mortars. Interna Journal of Engineering Research in Africa, 0, 62, 43-56.	ational	0.7	1

#	Article	IF	CITATIONS
128	Producción de hormigón verde a partir de ceniza de cascarilla de arroz y residuos de vidrio como sustitutos del cemento. Revista Ion, 2022, 35, .	0.1	0
129	Efficient utilization of waste CRT glass in low carbon super-sulfated cement mortar. Cement and Concrete Composites, 2023, 139, 105037.	4.6	7
130	Metaheuristicâ€based machine learning modeling of the compressive strength of concrete containing waste glass. Structural Concrete, 2023, 24, 5417-5440.	1.5	7
131	A Systematic Review of the Concrete Durability Incorporating Recycled Glass. Sustainability, 2023, 15, 3568.	1.6	9
132	Effect of Glass Powder on the Cement Hydration, Microstructure and Mechanical Properties of Mortar. , 0, , .		2
133	Strength and Durability Properties of Waste Glass Based Self Compacting Concrete: A Review. Silicon, 2023, 15, 5013-5036.	1.8	2
135	Properties of blended mortars produced with recycled by-products from different waste streams. Developments in the Built Environment, 2023, 14, 100156.	2.0	2
136	Influence of Metakaolin and glass powder on mechanical behaviour of concrete. Materials Today: Proceedings, 2023, , .	0.9	0
141	Usability of glass wastes in controlled low strength materials. AIP Conference Proceedings, 2023, , .	0.3	0
147	Experimental Investigation on Cement Bricks Using Glass Powder as a Partial Replacement for Fine Aggregate. Lecture Notes in Civil Engineering, 2024, , 151-165.	0.3	0
151	Augmenting concrete performance and sustainability with recycled glass: A critical examination of material characteristics and construction applications. AIP Conference Proceedings, 2024, , .	0.3	0