# Advances in alternative cementitious binders

Cement and Concrete Research

41, 1232-1243

DOI: 10.1016/j.cemconres.2010.11.012

Citation Report

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydration Degree of Alkaliâ€Activated Slags: A <sup>29</sup><scp><scp>Si</scp> NMR</scp> Study. Journal of the American Ceramic Society, 2011, 94, 4541-4547. | 1.9 | 120 |
| 2 | Influence of activator type on hydration kinetics, hydrate assemblage and microstructural development of alkali activated blast-furnace slags. Cement and Concrete Research, 2011, 41, 301-310. | 4.6 | 720 |
| 3 | Thermodynamics and cement science. Cement and Concrete Research, 2011, 41, 679-695. | 4.6 | 204 |
| 4 | Recent advances in the field of cement hydration and microstructure analysis. Cement and Concrete Research, 2011, 41, 666-678. | 4.6 | 147 |
| 5 | Performance of alkali-activated slag mortars exposed to acids. Journal of Sustainable Cement-Based Materials, 2012, 1, 138-151. | 1.7 | 90 |
| 6 | Cementitious Blends of Portland Cement with Calcium Sulphate, Fly Ash and Cupola Slag.. Materials Research Society Symposia Proceedings, 2012, 1488, 63. | 0.1 | 4 |
| 7 | Optimization of solids-to-liquid and alkali activator ratios of calcined kaolin geopolymeric powder. Construction and Building Materials, 2012, 37, 440-451. | 3.2 | 106 |
| 8 | Dilatometry of geopolymers as a means of selecting desirable fly ash sources. Journal of Non-Crystalline Solids, 2012, 358, 1930-1937. | 1.5 | 63 |
| 9 | Influence of Fly Ash and Ground Granulated Blast Furnace Slag on the Mechanical Properties and Reduction Behavior of Cold-Agglomerated Blast Furnace Briquettes. ISIJ International, 2012, 52, 1101-1108. | 0.6 | 8 |
| 10 | Types of Waste for the Production of Pozzolanic Materials â€“ A Review. , 0, , . | | 13 |
| 11 | Utilization of Coal Combustion By-Products and Green Materials for Production of Hydraulic Cement. , 0, , . | | 1 |
| 12 | Rheological and hydration characterization of calcium sulfoaluminate cement pastes. Cement and Concrete Composites, 2012, 34, 684-691. | 4.6 | 96 |
| 13 | X-ray microtomography shows pore structure and tortuosity in alkali-activated binders. Cement and Concrete Research, 2012, 42, 855-864. | 4.6 | 394 |
| 14 | Rietveld quantitative phase analysis of Yeelimite-containing cements. Cement and Concrete Research, 2012, 42, 960-971. | 4.6 | 184 |
| 15 | Measurements and modeling of cement base materials deformation at early age: The case of sulfo-aluminous cement. Cement and Concrete Research, 2012, 42, 1055-1065. | 4.6 | 10 |
| 16 | Beneficial use of limestone filler with calcium sulphoaluminate cement. Construction and Building Materials, 2012, 26, 619-627. | 3.2 | 165 |
| 17 | Durability of alkali-activated binders: A clear advantage over Portland cement or an unproven issue?. Construction and Building Materials, 2012, 30, 400-405. | 3.2 | 370 |
| 18 | Engineering and durability properties of concretes based on alkali-activated granulated blast furnace slag/metakaolin blends. Construction and Building Materials, 2012, 33, 99-108. | 3.2 | 304 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Compressive strength of ash-based geopolymers at early ages designed by Taguchi method. Materials & Design, 2012, 37, 443-449. | 5.1 | 63 |
| 20 | Technical and commercial progress in the adoption of geopolymer cement. Minerals Engineering, 2012, 29, 89-104. | 1.8 | 584 |
| 21 | Gel-casting of fused silica based core packing for investment casting using silica sol as a binder. Journal of the European Ceramic Society, 2013, 33, 2745-2749. | 2.8 | 16 |
| 22 | Synthesis of consolidated materials from alkaline solutions and metakaolin: existence of domains in the Alâ€“Siâ€“K/O ternary diagram. Journal of Sol-Gel Science and Technology, 2013, 65, 220-229. | 1.1 | 29 |
| 23 | Generalized Structural Description of Calciumâ€“Sodium Aluminosilicate Hydrate Gels: The Cross-Linked Substituted Tobermorite Model. Langmuir, 2013, 29, 5294-5306. | 1.6 | 383 |
| 24 | Mitigation of autogenous shrinkage in alkali activated slag mortars by internal curing. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1355-1367. | 1.3 | 94 |
| 25 | Microstructural changes in alkali activated fly ash/slag geopolymers with sulfate exposure. Materials and Structures/Materiaux Et Constructions, 2013, 46, 361-373. | 1.3 | 270 |
| 26 | Advanced Nanoscale Characterization of Cement Based Materials Using X-Ray Synchrotron Radiation: A Review. International Journal of Concrete Structures and Materials, 2013, 7, 95-110. | 1.4 | 51 |
| 27 | Bauxite residue in cement and cementitious applications: Current status and a possible way forward. Resources, Conservation and Recycling, 2013, 73, 53-63. | 5.3 | 136 |
| 28 | Properties of binary and ternary reactive MgO mortar blends subjected to CO2 curing. Cement and Concrete Composites, 2013, 38, 40-49. | 4.6 | 82 |
| 29 | Reactivated cementitious materials from hydrated cement paste wastes. Cement and Concrete Composites, 2013, 39, 104-114. | 4.6 | 59 |
| 30 | Effects of the concentrated NH4NO3 solution on mechanical properties and structure of the fly ash based geopolymers. Construction and Building Materials, 2013, 41, 570-579. | 3.2 | 60 |
| 31 | Strength and elastic properties of mortars with various percentages of environmentally sustainable mineral binder. Construction and Building Materials, 2013, 43, 348-361. | 3.2 | 13 |
| 32 | Mortars of alkali-activated blast furnace slag with high aggregate:binder ratios. Construction and Building Materials, 2013, 44, 607-614. | 3.2 | 18 |
| 33 | In situ synchrotron X-ray pair distribution function analysis of the early stages of gel formation in metakaolin-based geopolymers. Applied Clay Science, 2013, 73, 17-25. | 2.6 | 82 |
| 34 | Leaching of calcium sulfoaluminate cement pastes by water at regulated pH and temperature: Experimental investigation and modeling. Cement and Concrete Research, 2013, 53, 211-220. | 4.6 | 44 |
| 35 | Effect of substitution of granulated slag by air-cooled slag on the properties of alkali activated slag. Ceramics International, 2013, 39, 171-181. | 2.3 | 35 |
| 36 | Recycling the product of thermal transformation of cement-asbestos for the preparation of calcium sulfoaluminate clinker. Journal of Hazardous Materials, 2013, 260, 813-818. | 6.5 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Binding mechanism and properties of alkali-activated fly ash/slag mortars. Construction and Building Materials, 2013, 40, 291-298. | 3.2 | 303 |
| 38 | Beneficial use of a cell coupling rheometry, conductimetry, and calorimetry to investigate the early age hydration of calcium sulfoaluminate cement. Rheologica Acta, 2013, 52, 177-187. | 1.1 | 19 |
| 39 | Alternative Binders to Ordinary Portland Cement for Radwaste Solidification and Stabilization. , 2013, , 171-191. | | 6 |
| 40 | Multi-scale modeling and experimental investigations of geopolymeric gels at elevated temperatures. Computers and Structures, 2013, 122, 164-177. | 2.4 | 44 |
| 41 | Mechanical properties and compositional heterogeneities of fresh geopolymer pastes. Cement and Concrete Research, 2013, 48, 9-16. | 4.6 | 98 |
| 43 | Sulfoaluminate cement. , 2013, , 488-522. | | 51 |
| 44 | A novel use of calcium aluminate cements for recycling waste foundry sand (WFS). Construction and Building Materials, 2013, 48, 218-228. | 3.2 | 27 |
| 45 | Early age hydration of calcium sulfoaluminate (synthetic ye'elimite, ) in the presence of gypsum and varying amounts of calcium hydroxide. Cement and Concrete Research, 2013, 48, 105-115. | 4.6 | 160 |
| 46 | Solidification/stabilization of toxic metals in calcium aluminate cement matrices. Journal of Hazardous Materials, 2013, 260, 89-103. | 6.5 | 78 |
| 47 | Use of Slag/Sugar Cane Bagasse Ash (SCBA) Blends in the Production of Alkali-Activated Materials. Materials, 2013, 6, 3108-3127. | 1.3 | 93 |
| 48 | Effect of Activated Water Treatment Sludge on Carbonation of Mortar. Key Engineering Materials, 2013, 539, 120-123. | 0.4 | 1 |
| 49 | Multi-analytical assessment of iron and steel slag characteristics to estimate the removal of metalloids from contaminated water. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 887-895. | 0.9 | 19 |
| 50 | Early Strength Characteristics of Palm Oil Fuel Ash and Metakaolin Blended Geopolymer Mortar. Advanced Materials Research, 2013, 690-693, 1045-1048. | 0.3 | 16 |
| 51 | An Experiment for Effects of Different Additives on Strength of Sediment Solidification. Applied Mechanics and Materials, 0, 357-360, 1235-1240. | 0.2 | 1 |
| 52 | The potential for using geopolymer concrete in the UK. Proceedings of Institution of Civil Engineers: Construction Materials, 2013, 166, 195-203. | 0.7 | 31 |
| 53 | Material Properties of Structurally Viable Alkali-Activated Fly Ash Concrete. Journal of Materials in Civil Engineering, 2013, 25, 1456-1464. | 1.3 | 12 |
| 54 | Effects of Fly Ash/Slag Ratio and Liquid/Binder Ratio on Strength of Alkali-Activated Fly Ash/Slag Mortars. Applied Mechanics and Materials, 2013, 377, 50-54. | 0.2 | 8 |
| 55 | Statistical Study of the Effect of the Composition on the Strength of Supersulphated Cements. Materials Research Society Symposia Proceedings, 2013, 1612, 1. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 56 | Lessons from a lost technology: The secrets of Roman concrete. American Mineralogist, 2013, 98, 1917-1918. | 0.9 | 8 |
| 57 | Nanoscience and nanoengineering of cement-based materials. , 2013, , 9-37a. | | 4 |
| 58 | Alkali-activated based concrete. , 2013, , 439-487. | | 8 |
| 60 | Proof of concept of self-compacting clay concrete to scale-up earth construction. , 2014, , . | | 1 |
| 61 | Compressive strength, microstructure and hydration products of hybrid alkaline cements. Materials Research, 2014, 17, 829-837. | 0.6 | 30 |
| 63 | Comparing study on hydration properties of various cementitious systems. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1483-1492. | 2.0 | 29 |
| 64 | Sulphate Resistance of Geopolymer Concrete Prepared from Blended Waste Fuel Ash. Journal of Materials in Civil Engineering, 2014, 26, . | 1.3 | 76 |
| 65 | Corrosion Behavior of Steel Reinforcement in Concrete with Recycled Aggregates, Fly Ash and Spent Cracking Catalyst. Materials, 2014, 7, 3176-3197. | 1.3 | 52 |
| 66 | The suitability of a supersulfated cement for nuclear waste immobilisation. Journal of Nuclear Materials, 2014, 452, 457-464. | 1.3 | 27 |
| 67 | Application of Isomorphic Ca-Si Rocks for the Synthesis of Î±-C2S Hydrate. Medziagotyra, 2014, 20, . | 0.1 | 1 |
| 68 | Transport properties of ternary concrete mixtures containing natural zeolite with silica fume or fly ash. Magazine of Concrete Research, 2014, 66, 150-158. | 0.9 | 30 |
| 69 | Cementitious Binders IncorporatingÂResidues. , 2014, , 219-229. | | 6 |
| 70 | Mechanical Performances of Super Sulfated Cements. Key Engineering Materials, 2014, 617, 32-35. | 0.4 | 4 |
| 71 | The Effect of Activator on the Properties of Low-Calcium Alkali-Activated Mortars. Key Engineering Materials, 2014, 604, 169-172. | 0.4 | 6 |
| 72 | CO2 emission reduction by reuse of building material waste in the Japanese cement industry. Renewable and Sustainable Energy Reviews, 2014, 38, 796-810. | 8.2 | 129 |
| 73 | Calcium Sulfoaluminate Sodalite (<scp><scp>Ca<sub>4</sub>Al<sub>6</sub>O<sub>12</sub>SO<sub>4</sub></scp></scp>) Crystal Structure Evaluation and Bulk Modulus Determination. Journal of the American Ceramic Society, 2014, 97, 892-898. | 1.9 | 36 |
| 74 | Tribochemical and thermal activation of Î±-c2s hydrate as precursor for cementitious binders. Journal of Thermal Analysis and Calorimetry, 2014, 118, 817-823. | 2.0 | 15 |
| 75 | Strength development of alkali-activated fly ash produced with combined NaOH and Ca(OH) 2 activators. Cement and Concrete Composites, 2014, 53, 341-349. | 4.6 | 85 |

| # | Article | IF | Citations |
|---|---|---|---|
| 76 | Chemical characterisation of metakaolin and fly ash based geopolymers during exposure to solvents used in carbon capture. International Journal of Greenhouse Gas Control, 2014, 27, 255-266. | 2.3 | 19 |
| 77 | Investigation on microstructures of cementitious composites incorporating slag. Advances in Cement Research, 2014, 26, 222-232. | 0.7 | 51 |
| 78 | Green concrete or red herring? â€“ future of alkali-activated materials. Advances in Applied Ceramics, 2014, 113, 472-477. | 0.6 | 56 |
| 79 | Strength and drying shrinkage of reactive MgO modified alkali-activated slag paste. Construction and Building Materials, 2014, 51, 395-404. | 3.2 | 230 |
| 80 | Modification of phase evolution in alkali-activated blast furnace slag by the incorporation of fly ash. Cement and Concrete Composites, 2014, 45, 125-135. | 4.6 | 806 |
| 81 | Effect of blast furnace slag on self-healing of microcracks in cementitious materials. Cement and Concrete Research, 2014, 60, 68-82. | 4.6 | 148 |
| 82 | Anhydrite/hemihydrate-blast furnace slag cementitious composites: Strength development and reactivity. Construction and Building Materials, 2014, 65, 20-28. | 3.2 | 40 |
| 83 | Natural carbonation of aged alkali-activated slag concretes. Materials and Structures/Materiaux Et Constructions, 2014, 47, 693-707. | 1.3 | 114 |
| 84 | Durability of Alkaliâ€Activated Materials: Progress and Perspectives. Journal of the American Ceramic Society, 2014, 97, 997-1008. | 1.9 | 320 |
| 85 | MgO content of slag controls phase evolution and structural changes induced by accelerated carbonation in alkali-activated binders. Cement and Concrete Research, 2014, 57, 33-43. | 4.6 | 334 |
| 86 | Geopolymer foam concrete: An emerging material for sustainable construction. Construction and Building Materials, 2014, 56, 113-127. | 3.2 | 594 |
| 87 | Influence of starting material on the early age hydration kinetics, microstructure and composition of binding gel in alkali activated binder systems. Cement and Concrete Composites, 2014, 48, 108-117. | 4.6 | 107 |
| 88 | Alkali Activated Materials. RILEM State-of-the-Art Reports, 2014, , . | 0.3 | 455 |
| 89 | The fate of iron in blast furnace slag particles during alkali-activation. Materials Chemistry and Physics, 2014, 146, 1-5. | 2.0 | 36 |
| 91 | Hemihydrate or waste anhydrite in composite binders with blast-furnace slag: Hydration products, microstructures and dimensional stability. Construction and Building Materials, 2014, 71, 317-326. | 3.2 | 22 |
| 92 | In Situ Mechanical Properties of Chamotte Particulate Reinforced, Potassium Geopolymer. Journal of the American Ceramic Society, 2014, 97, 907-915. | 1.9 | 54 |
| 93 | A hydration study of various calcium sulfoaluminate cements. Cement and Concrete Composites, 2014, 53, 224-232. | 4.6 | 199 |
| 94 | Calcium sulfoaluminate (Ye'elimite) hydration in the presence of gypsum, calcite, and vaterite. Cement and Concrete Research, 2014, 65, 15-20. | 4.6 | 176 |

| # | Article | IF | Citations |
|---|---|---|---|
| 95 | Activation of ground granulated blast furnace slag by using calcined dolomite. Construction and Building Materials, 2014, 68, 252-258. | 3.2 | 45 |
| 96 | Corrosion of steel bars induced by accelerated carbonation in low and high calcium fly ash geopolymer concretes. Construction and Building Materials, 2014, 61, 79-89. | 3.2 | 148 |
| 97 | A review on alkali-activated slag cements incorporated with supplementary materials. Journal of Sustainable Cement-Based Materials, 2014, 3, 61-74. | 1.7 | 35 |
| 98 | Geopolymers and Related Alkali-Activated Materials. Annual Review of Materials Research, 2014, 44, 299-327. | 4.3 | 908 |
| 99 | Hydration mechanisms of two polymorphs of synthetic ye'elimite. Cement and Concrete Research, 2014, 63, 127-136. | 4.6 | 114 |
| 100 | Improving reactivity of fly ash and properties of ensuing geopolymers through mechanical activation. Construction and Building Materials, 2014, 57, 151-162. | 3.2 | 99 |
| 101 | Lightweight screed containing cork granules: Mechanical and hygrothermal characterization. Cement and Concrete Composites, 2014, 49, 1-8. | 4.6 | 49 |
| 102 | Properties of a ternary calcium sulfoaluminateâ€“calcium sulfateâ€“fly ash cement. Cement and Concrete Research, 2014, 56, 75-83. | 4.6 | 111 |
| 103 | Effect of GGBFS on setting, workability and early strength properties of fly ash geopolymer concrete cured in ambient condition. Construction and Building Materials, 2014, 66, 163-171. | 3.2 | 933 |
| 104 | Influence of the processing temperature on the compressive strength of Na activated lateritic soil for building applications. Construction and Building Materials, 2014, 65, 60-66. | 3.2 | 58 |
| 105 | Characterization of mechanical and microstructural properties of palm oil fuel ash geopolymer cement paste. Construction and Building Materials, 2014, 65, 592-603. | 3.2 | 102 |
| 107 | Innovations in cement-based materials: Addressing sustainability in structural and infrastructure applications. MRS Bulletin, 2015, 40, 1102-1109. | 1.7 | 35 |
| 108 | Enhancement of selectivity toward ettringite during hydrothermal processes on fluidized bed combustion wastes for the manufacture of preformed building components. RSC Advances, 2015, 5, 101887-101893. | 1.7 | 5 |
| 109 | Properties of compressed concrete paving units made produced using desulfurization slag. Environmental Progress and Sustainable Energy, 2015, 34, 1365-1371. | 1.3 | 4 |
| 110 | The Effect of Alkaline Material Particle Size on Adjustment Ability of Buffer Capacity. Medziagotyra, 2015, 21, . | 0.1 | 2 |
| 111 | Grand Challenges in Structural Materials. Frontiers in Materials, 2015, 2, . | 1.2 | 21 |
| 112 | Quantitative assessment of parameters that affect strength development in alkali activated fly ash binders. Construction and Building Materials, 2015, 93, 869-876. | 3.2 | 25 |
| 113 | Influence of fineness on hydration kinetics of supersulfated cement. Thermochimica Acta, 2015, 605, 37-42. | 1.2 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 114 | Stoichiometrically controlled Câ€“(A)â€“Sâ€“H/Nâ€“Aâ€“Sâ€“H gel blends via alkali-activation of synthetic precursors. Advances in Applied Ceramics, 2015, 114, 372-377. | 0.6 | 28 |
| 115 | Early Age Properties of Low-calcium Fly Ash Geopolymer Concrete Suitable for Ambient Curing. Procedia Engineering, 2015, 125, 601-607. | 1.2 | 134 |
| 116 | Application of alkali-activated slag concrete in railway sleepers. Materials & Design, 2015, 69, 89-95. | 5.1 | 79 |
| 117 | Identification of the hydrate gel phases present in phosphate-modified calcium aluminate binders. Cement and Concrete Research, 2015, 70, 21-28. | 4.6 | 39 |
| 118 | Microstructure of amorphous aluminum hydroxide in belite-calcium sulfoaluminate cement. Cement and Concrete Research, 2015, 71, 1-6. | 4.6 | 96 |
| 119 | Mechanical strength and Young's modulus of alkali-activated cement-based binders. , 2015, , 171-215. | | 14 |
| 120 | Introduction to Handbook of Alkali-activated Cements, Mortars and Concretes. , 2015, , 1-16. | | 129 |
| 121 | Performance characteristics of concrete based on a ternary calcium sulfoaluminateâ€“anhydriteâ€“fly ash cement. Cement and Concrete Composites, 2015, 55, 196-204. | 4.6 | 50 |
| 122 | Photocatalytic NOx abatement by calcium aluminate cements modified with TiO2: Improved NO2 conversion. Cement and Concrete Research, 2015, 70, 67-76. | 4.6 | 55 |
| 123 | Comparison of alkaliâ€“silica reactions in alkali-activated slag and Portland cement mortars. Materials and Structures/Materiaux Et Constructions, 2015, 48, 743-751. | 1.3 | 59 |
| 124 | Microstructural characterization of alkali-activation of six Korean Class F fly ashes with different geopolymeric reactivity and their zeolitic precursors with various mixture designs. KSCE Journal of Civil Engineering, 2015, 19, 1775-1786. | 0.9 | 6 |
| 125 | The environmental credentials of hydraulic lime-pozzolan concretes. Journal of Cleaner Production, 2015, 93, 26-37. | 4.6 | 50 |
| 126 | Microstructural verification of the strength performance of ternary blended cement systems with high volumes of fly ash and GGBFS. Construction and Building Materials, 2015, 95, 96-107. | 3.2 | 69 |
| 127 | Contribution of limestone to the hydration of calcium sulfoaluminate cement. Cement and Concrete Composites, 2015, 62, 204-211. | 4.6 | 130 |
| 128 | The role of brucite, ground granulated blastfurnace slag, and magnesium silicates in the carbonation and performance of MgO cements. Construction and Building Materials, 2015, 94, 629-643. | 3.2 | 101 |
| 129 | A review of alternative approaches to the reduction of CO2 emissions associated with the manufacture of the binder phase in concrete. Cement and Concrete Research, 2015, 78, 126-142. | 4.6 | 400 |
| 130 | Influence of curing temperature on the process of hydration of supersulfated cements at early age. Cement and Concrete Research, 2015, 77, 69-75. | 4.6 | 67 |
| 131 | Effect of sulfur on the ion concentration of pore solution and the hydration of calcium aluminate cement. Cement and Concrete Composites, 2015, 62, 76-81. | 4.6 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 132 | The hybridizations of coal fly ash and wood ash for the fabrication of low alkalinity geopolymer load bearing block cured at ambient temperature. Construction and Building Materials, 2015, 88, 41-55. | 3.2 | 43 |
| 134 | Split tensile strength of slag-based geopolymer composites reinforced with steel fibers: Application of Taguchi method in evaluating the effect of production parameters and their optimum condition. Ceramics International, 2015, 41, 10697-10701. | 2.3 | 25 |
| 135 | Hydration Process and Compressive Strength of Slag-CFBC Fly Ash Materials without Portland Cement. Journal of Materials in Civil Engineering, 2015, 27, . | 1.3 | 21 |
| 136 | Influence of sodium borate on the early age hydration of calcium sulfoaluminate cement. Cement and Concrete Research, 2015, 70, 83-93. | 4.6 | 74 |
| 137 | Calcium Looping Spent Sorbent as a Limestone Replacement in the Manufacture of Portland and Calcium Sulfoaluminate Cements. Environmental Science & Technology, 2015, 49, 6865-6871. | 4.6 | 36 |
| 138 | Structural and durability properties of hydraulic limeâ€“pozzolan concretes. Cement and Concrete Composites, 2015, 62, 212-223. | 4.6 | 23 |
| 139 | Hydrogen-rich water revealed benefits in controlling the physical and mechanical performances of cement mortar. Construction and Building Materials, 2015, 100, 31-39. | 3.2 | 12 |
| 140 | Compatibility of Superplasticizers with Limestone-Metakaolin Blended Cementitious System. RILEM Bookseries, 2015, , 427-434. | 0.2 | 17 |
| 141 | Effectiveness of carbonated lime as a raw material in producing a CO2-stored cementitious material by the hydrothermal method. Construction and Building Materials, 2015, 95, 556-565. | 3.2 | 13 |
| 142 | Effects of Different Reactive MgOs on the Hydration of MgO-Activated GGBS Paste. Journal of Materials in Civil Engineering, 2015, 27, . | 1.3 | 58 |
| 144 | Effective properties of a fly ash geopolymer: Synergistic application of X-ray synchrotron tomography, nanoindentation, and homogenization models. Cement and Concrete Research, 2015, 78, 252-262. | 4.6 | 107 |
| 145 | Effects of carbonation treatment on the properties of hydrated fly ash-MgO-Portland cement blends. Construction and Building Materials, 2015, 96, 147-154. | 3.2 | 69 |
| 146 | Durability of Blended PFA and POFA Geopolymer Concrete. Applied Mechanics and Materials, 2015, 754-755, 359-363. | 0.2 | 0 |
| 147 | Hydration of ordinary Portland cement and calcium sulfoaluminate cement blends. Cement and Concrete Composites, 2015, 56, 106-114. | 4.6 | 182 |
| 148 | Hydration stage identification and phase transformation of calcium sulfoaluminate cement at early age. Construction and Building Materials, 2015, 75, 11-18. | 3.2 | 140 |
| 149 | The Role of Al in Crossâ€Linking of Alkaliâ€Activated Slag Cements. Journal of the American Ceramic Society, 2015, 98, 996-1004. | 1.9 | 181 |
| 150 | Oneâ€Part Geopolymers Based on Thermally Treated Red Mud/NaOH Blends. Journal of the American Ceramic Society, 2015, 98, 5-11. | 1.9 | 184 |
| 151 | Properties of Ground Perlite Geopolymer Mortars. Journal of Materials in Civil Engineering, 2015, 27, . | 1.3 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 152 | Influence of slag composition on the hydration of alkali-activated slags. Journal of Sustainable Cement-Based Materials, 2015, 4, 85-100. | 1.7 | 53 |
| 153 | Use of OPC to improve setting and early strength properties of low calcium fly ash geopolymer concrete cured at room temperature. Cement and Concrete Composites, 2015, 55, 205-214. | 4.6 | 318 |
| 154 | Microstructural and strength improvements through the use of Na2CO3 in a cementless Ca(OH)2-activated Class F fly ash system. Cement and Concrete Research, 2015, 67, 215-225. | 4.6 | 119 |
| 155 | Effect of calcium sulfate source on the hydration of calcium sulfoaluminate eco-cement. Cement and Concrete Composites, 2015, 55, 53-61. | 4.6 | 165 |
| 156 | Synthesis, characterization and mechanisms of one-part geopolymeric cement by calcining low-quality kaolin with alkali. Materials and Structures/Materiaux Et Constructions, 2015, 48, 699-708. | 1.3 | 76 |
| 157 | Physicalâ€“mechanical and microstructural properties of alkali-activated fly ashâ€“blast furnace slag blends. Ceramics International, 2015, 41, 1421-1435. | 2.3 | 190 |
| 158 | Role of carbonates in the chemical evolution of sodium carbonate-activated slag binders. Materials and Structures/Materiaux Et Constructions, 2015, 48, 517-529. | 1.3 | 186 |
| 159 | Microstructural Changes Induced by CO2 Exposure in Alkali-Activated Slag/Metakaolin Pastes. Frontiers in Materials, 2016, 3, . | 1.2 | 18 |
| 160 | Contrastive Numerical Investigations on Thermo-Structural Behaviors in Mass Concrete with Various Cements. Materials, 2016, 9, 378. | 1.3 | 5 |
| 161 | Some Issues of Shrinkage-Reducing Admixtures Application in Alkali-Activated Slag Systems. Materials, 2016, 9, 462. | 1.3 | 46 |
| 162 | Quantitative Analysis of Phase Assemblage and Chemical Shrinkage of Alkali-Activated Slag. Journal of Advanced Concrete Technology, 2016, 14, 245-260. | 0.8 | 72 |
| 163 | ICSC Problems and Perspectives of high-calcium fly ash from heat power plants in the composition of â€œgreenâ€•building materials. E3S Web of Conferences, 2016, 6, 01014. | 0.2 | 3 |
| 164 | Optimizing and Characterizing Geopolymers from Ternary Blend of Philippine Coal Fly Ash, Coal Bottom Ash and Rice Hull Ash. Materials, 2016, 9, 580. | 1.3 | 44 |
| 165 | Strength Properties of Slag/Fly Ash Blends Activated with Sodium Metasilicate and Sodium Hydroxide + Silica Fume. Periodica Polytechnica: Civil Engineering, 2016, 60, 223-228. | 0.6 | 11 |
| 166 | Production and hydration of calcium sulfoaluminate-belite cements derived from aluminium anodising sludge. Construction and Building Materials, 2016, 122, 373-383. | 3.2 | 91 |
| 167 | Management and valorisation of wastes through use in producing alkaliâ€activated cement materials. Journal of Chemical Technology and Biotechnology, 2016, 91, 2365-2388. | 1.6 | 121 |
| 168 | Industrial energy use and carbon emissions reduction: a UK perspective. Wiley Interdisciplinary Reviews: Energy and Environment, 2016, 5, 684-714. | 1.9 | 53 |
| 169 | Recent developments on inorganic polymers synthesis and applications. Ceramics International, 2016, 42, 15142-15159. | 2.3 | 119 |

| # | Article | IF | Citations |
|---|---|---|---|
| 170 | Production of belite calcium sulfoaluminate cement using sulfur as a fuel and as a source of clinker sulfur trioxide: pilot kiln trial. Advances in Cement Research, 2016, 28, 643-653. | 0.7 | 42 |
| 171 | Calcium Silicate Phases Explained by High-Temperature-Resistant Phosphate Probe Molecules. Langmuir, 2016, 32, 13577-13584. | 1.6 | 13 |
| 172 | Innovative concretes for low-carbon constructions: a review. International Journal of Low-Carbon Technologies, 2016, , . | 1.2 | 10 |
| 173 | Effect of Rapid Hardening Cement and Setting Accelerator on the Freeze-Thaw Durability of Fly Ash Concrete. Key Engineering Materials, 0, 711, 343-350. | 0.4 | 1 |
| 174 | In-situ and continuous monitoring of pore evolution of calcium sulfoaluminate cement at early age by electrical impedance measurement. Construction and Building Materials, 2016, 117, 8-19. | 3.2 | 34 |
| 175 | Mechanical and durability performance of sustainable structural concretes: An experimental study. Cement and Concrete Composites, 2016, 71, 85-96. | 4.6 | 80 |
| 176 | Hydration properties of ladle furnace slag powder rapidly cooled by air. Construction and Building Materials, 2016, 113, 682-690. | 3.2 | 40 |
| 177 | Effect of retarders on the early hydration of calcium-sulpho-aluminate (CSA) type cements. Cement and Concrete Research, 2016, 84, 62-75. | 4.6 | 130 |
| 178 | Influence of the long term curing temperature on the hydration of alkaline binders of blast furnace slag-metakaolin. Construction and Building Materials, 2016, 113, 917-926. | 3.2 | 51 |
| 179 | Application design of concrete canvas (CC) in soil reinforced structure. Geotextiles and Geomembranes, 2016, 44, 557-567. | 2.3 | 26 |
| 180 | Synthesis of stoichiometrically controlled reactive aluminosilicate and calcium-aluminosilicate powders. Powder Technology, 2016, 297, 17-33. | 2.1 | 40 |
| 181 | Experimental study on the synthesis and characterization of aplite rock-based geopolymers. Journal of Sustainable Cement-Based Materials, 2016, 5, 233-246. | 1.7 | 29 |
| 182 | Low-CO<sub>2</sub>Cements from Fluidized Bed Process Wastes and Other Industrial By-Products. Combustion Science and Technology, 2016, 188, 492-503. | 1.2 | 27 |
| 183 | A Review on the Durability of Alkali-Activated Fly Ash/Slag Systems: Advances, Issues, and Perspectives. Industrial & Engineering Chemistry Research, 2016, 55, 5439-5453. | 1.8 | 149 |
| 184 | Performance of blended metakaolin/blastfurnace slag alkali-activated mortars. Cement and Concrete Composites, 2016, 71, 42-52. | 4.6 | 100 |
| 185 | Cementitious properties and microstructure of an innovative slag eco-binder. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2009-2024. | 1.3 | 21 |
| 186 | Physical and chemical properties of concrete using GGBFS-KR slag-gypsum binder. Construction and Building Materials, 2016, 123, 436-443. | 3.2 | 35 |
| 187 | Effect of MgO content of synthetic slag on the formation of Mg-Al LDHs and sulfate resistance of slag-fly ash-clinker binder. Construction and Building Materials, 2016, 125, 766-774. | 3.2 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 188 | Improving the mechanical properties of rapid air cooled ladle furnace slag powder by gypsum. Construction and Building Materials, 2016, 127, 93-101. | 3.2 | 25 |
| 189 | Phase evolution of C-(N)-A-S-H/N-A-S-H gel blends investigated via alkali-activation of synthetic calcium aluminosilicate precursors. Cement and Concrete Research, 2016, 89, 120-135. | 4.6 | 256 |
| 190 | Mutual activation of blast furnace slag and a high-calcium fly ash rich in free lime and sulfates. Construction and Building Materials, 2016, 126, 466-475. | 3.2 | 10 |
| 191 | Hydration characteristics of cement-free binder using Kambara reactor slag. Magazine of Concrete Research, 2016, 68, 1143-1154. | 0.9 | 3 |
| 192 | A review of alternatives traditional cementitious binders for engineering improvement of soils. International Journal of Geotechnical Engineering, 0, , 1-11. | 1.1 | 17 |
| 193 | A Study on Mechanical Properties of Porous Concrete Using Cementless Binder. International Journal of Concrete Structures and Materials, 2016, 10, 527-537. | 1.4 | 23 |
| 194 | Behavior of calcium aluminate cement (CAC) in the presence of hexavalent chromium. Cement and Concrete Composites, 2016, 73, 114-122. | 4.6 | 31 |
| 195 | Decarbonising the energy intensive basic materials industry through electrification â€“ Implications for future EU electricity demand. Energy, 2016, 115, 1623-1631. | 4.5 | 180 |
| 196 | Synthesis and characterization of mortars with circulating fluidized bed combustion fly ash and ground granulated blast-furnace slag. Construction and Building Materials, 2016, 123, 565-573. | 3.2 | 40 |
| 197 | Fly ash-slag interaction during alkaline activation: Influence of activators on phase assemblage and microstructure formation. Construction and Building Materials, 2016, 122, 594-606. | 3.2 | 73 |
| 198 | Stability of ettringite in CSA cement at elevated temperatures. Advances in Cement Research, 2016, 28, 251-261. | 0.7 | 46 |
| 199 | Alkali-activated slag cements produced with a blended sodium carbonate/sodium silicate activator. Advances in Cement Research, 2016, 28, 262-273. | 0.7 | 78 |
| 200 | Effects of superplasticizers and retarders on the fluidity and strength of sulphoaluminate cement. Construction and Building Materials, 2016, 126, 44-54. | 3.2 | 91 |
| 201 | A reaction range for hydration of calcium sulfoaluminate with calcium sulfate and calcium hydroxide: theory and experimental validation. Advances in Cement Research, 2016, 28, 664-674. | 0.7 | 12 |
| 202 | Influence of alternative fuels on trace element content of ordinary portland cement. Fuel, 2016, 184, 481-489. | 3.4 | 36 |
| 204 | Shrinkage mechanisms of alkali-activated slag. Cement and Concrete Research, 2016, 88, 126-135. | 4.6 | 276 |
| 205 | Evaluation of GHG emissions from the production of magnesia refractory raw materials in Dashiqiao, China. Journal of Cleaner Production, 2016, 135, 214-222. | 4.6 | 19 |
| 206 | Technology Updating Decisions for Improving the Environmental Performance of an Operating Supply Chain: A Multiobjective Optimization Model for the Cement Industry. Industrial & Engineering Chemistry Research, 2016, 55, 12287-12300. | 1.8 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 207 | Usability of Geopolymers for Oil Well Cementing Applications: Reaction Mechanisms, Pumpability, and Properties. , 2016, , . | | 11 |
| 208 | Improving the performance of reactive MgO cement-based concrete mixes. Construction and Building Materials, 2016, 126, 747-758. | 3.2 | 95 |
| 209 | The Manufacture of the Grinding Wheels Based on the Caâ€“K Geopolymer Matrix. Materials and Manufacturing Processes, 2016, 31, 667-672. | 2.7 | 9 |
| 210 | Self-Compacted Clay based Concrete (SCCC): proof-of-concept. Journal of Cleaner Production, 2016, 117, 160-168. | 4.6 | 55 |
| 211 | Restrained Shrinkage Cracking and Dry Shrinkage of Rapid-Set Prepackaged Cementitious Materials. Journal of Materials in Civil Engineering, 2016, 28, . | 1.3 | 8 |
| 212 | Magnesia-Based Cements: A Journey of 150 Years, and Cements for the Future?. Chemical Reviews, 2016, 116, 4170-4204. | 23.0 | 564 |
| 213 | Optimizing Ternary-blended Geopolymers with Multi-response Surface Analysis. Waste and Biomass Valorization, 2016, 7, 929-939. | 1.8 | 30 |
| 214 | Phase evolution of Na<sub>2</sub>Oâ€“Al<sub>2</sub>O<sub>3</sub>â€“SiO<sub>2</sub>â€“H<sub>2</sub>O gels in synthetic aluminosilicate binders. Dalton Transactions, 2016, 45, 5521-5535. | 1.6 | 74 |
| 215 | Dynamical behaviors of structural, constrained and free water in calcium- and magnesium-silicate-hydrate gels. Journal of Colloid and Interface Science, 2016, 469, 157-163. | 5.0 | 15 |
| 216 | Investigation on the Effectiveness of Aqueous Carbonated Lime in Producing an Alternative Cementitious Material. International Journal of Concrete Structures and Materials, 2016, 10, 15-28. | 1.4 | 5 |
| 217 | The role of activating solution concentration on alkaliâ€“silica reaction in alkali-activated fly ash concrete. Cement and Concrete Research, 2016, 83, 124-130. | 4.6 | 76 |
| 218 | Engineering properties and durability of high-strength self-compacting concrete with no-cement SFC binder. Construction and Building Materials, 2016, 106, 670-677. | 3.2 | 29 |
| 219 | Effects of Activator Properties and Ferrochrome Slag Aggregates on the Properties of alkali-activated Blast Furnace Slag Mortars. Arabian Journal for Science and Engineering, 2016, 41, 1561-1571. | 1.1 | 19 |
| 220 | Chemical activation of hybrid binders based on siliceous fly ash and Portland cement. Cement and Concrete Composites, 2016, 66, 10-23. | 4.6 | 99 |
| 221 | Influence of calcium aluminate cement (CAC) on alkaline activation of red clay brick waste (RCBW). Cement and Concrete Composites, 2016, 65, 177-185. | 4.6 | 60 |
| 222 | Pozzolanic reactivity of a calcined interstratified illite/smectite (70/30) clay. Cement and Concrete Research, 2016, 79, 101-111. | 4.6 | 77 |
| 223 | Why more sustainable cements failed so far? Disruptive innovations and their barriers in a basic industry. Environmental Innovation and Societal Transitions, 2016, 19, 15-30. | 2.5 | 38 |
| 224 | Hydration and early-age expansion of calcium sulfoaluminate cement-based binders: experiments and thermodynamic modeling. Journal of Sustainable Cement-Based Materials, 2016, 5, 259-267. | 1.7 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 225 | Improvement of mechanical properties of concrete canvas by anhydrite-modified calcium sulfoaluminate cement. Journal of Composite Materials, 2016, 50, 1937-1950. | 1.2 | 31 |
| 226 | Cement industry greenhouse gas emissions â€“ management options and abatement cost. Journal of Cleaner Production, 2016, 112, 4041-4052. | 4.6 | 356 |
| 227 | Ag/AgCl ion-selective electrodes in neutral and alkaline environments containing interfering ions. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2637-2651. | 1.3 | 42 |
| 228 | Impact of rapid-hardening cements on mechanical properties of cement bitumen emulsion asphalt. Materials and Structures/Materiaux Et Constructions, 2016, 49, 487-498. | 1.3 | 65 |
| 229 | Long-term durability of rock-based geopolymers aged at downhole conditions for oil well cementing operations. Journal of Sustainable Cement-Based Materials, 2017, 6, 217-230. | 1.7 | 36 |
| 230 | Compositional characteristics and experimental burning of selected Lower Palaeozoic limestones from the Prague Basin (Barrandian area, Czech Republic) suitable for the production of natural hydraulic lime. Bulletin of Engineering Geology and the Environment, 2017, 76, 21-37. | 1.6 | 3 |
| 231 | Impact of reactive SiO2/Al2O3 ratio in precursor on durability of porous alkali activated materials. Ceramics International, 2017, 43, 5471-5477. | 2.3 | 39 |
| 232 | Micro-mechanical properties of calcium sulfoaluminate cement and the correlation with microstructures. Cement and Concrete Composites, 2017, 80, 10-16. | 4.6 | 64 |
| 233 | Effect of borax on rheology of calcium sulphoaluminate cement paste in the presence of polycarboxylate superplasticizer. Construction and Building Materials, 2017, 139, 277-285. | 3.2 | 61 |
| 234 | Influence of nano-SiO2 addition on properties of sulphoaluminate cement based material. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 106-112. | 0.4 | 11 |
| 235 | Phase Compatibility in the System CaOâ€“SiO<sub>2</sub>â€“Al<sub>2</sub>O<sub>3</sub>â€“SO<sub>3</sub>â€“Fe<sub>2</sub>O<sub>3</sub> and the Effect of Partial Pressure on the Phase Stability. Industrial & Engineering Chemistry Research, 2017, 56, 2341-2349. | 1.8 | 22 |
| 236 | Bond strength between concrete substrate and metakaolin geopolymer repair mortar: Effect of curing regime and PVA fiber reinforcement. Cement and Concrete Composites, 2017, 80, 307-316. | 4.6 | 100 |
| 237 | Aluminum-induced dreierketten chain cross-links increase the mechanical properties of nanocrystalline calcium aluminosilicate hydrate. Scientific Reports, 2017, 7, 44032. | 1.6 | 122 |
| 238 | Water absorption and water/fertilizer retention performance of vermiculite modified sulphoaluminate cementitious materials. Construction and Building Materials, 2017, 137, 224-233. | 3.2 | 27 |
| 239 | Matrix design for waterproof Engineered Cementitious Composites (ECCs). Construction and Building Materials, 2017, 139, 438-446. | 3.2 | 79 |
| 240 | Influence of fly ash on the hydration of calcium sulfoaluminate cement. Cement and Concrete Research, 2017, 95, 152-163. | 4.6 | 142 |
| 241 | Drying and carbonation shrinkage of cement paste containing alkalis. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1. | 1.3 | 43 |
| 242 | Multi-sized fillers to improve strength and flowability of concrete. Advances in Cement Research, 2017, 29, 112-124. | 0.7 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 243 | Volume and surface fractal dimensions of pore structure by NAD and LT-DSC in calcium sulfoaluminate cement pastes. Construction and Building Materials, 2017, 143, 395-418. | 3.2 | 58 |
| 244 | Effect of Na2O content, SiO2/Na2O molar ratio, and curing conditions on the compressive strength of FA-based geopolymer. Construction and Building Materials, 2017, 145, 253-260. | 3.2 | 123 |
| 245 | Calcium Sulfoaluminate Cement Concrete for Precast, Prestressed Concrete Components. , 2017, , . | | 0 |
| 246 | Mechanical Behavior and Sulfate Resistance of Alkali Activated Stabilized Clayey Soil. Geotechnical and Geological Engineering, 2017, 35, 1907-1920. | 0.8 | 32 |
| 247 | Utilization of flue gas desulfurization gypsum for producing calcium sulfoaluminate cement. Journal of Cleaner Production, 2017, 161, 803-811. | 4.6 | 92 |
| 248 | Sintering characteristics of BCSAF cement clinker with added wastes from production of manganese and magnesium metals. Advances in Cement Research, 0, , 1-9. | 0.7 | 3 |
| 249 | Acid resistance of palm oil fuel ash and metakaolin ternary blend cement mortar. Sustainable Environment Research, 2017, 27, 181-187. | 2.1 | 13 |
| 250 | Impact of quantity of anhydrite, water to binder ratio, fineness on kinetics and phase assemblage of belite-ye'elimite-ferrite cement. Cement and Concrete Research, 2017, 99, 8-17. | 4.6 | 76 |
| 251 | Properties of alkali-activated slag with addition of cation exchange material. Construction and Building Materials, 2017, 146, 321-328. | 3.2 | 15 |
| 252 | Shrinkage and strength development of alkali-activated fly ash-slag binary cements. Construction and Building Materials, 2017, 150, 808-816. | 3.2 | 131 |
| 253 | Advances in clinkering technology of calcium sulfoaluminate cement. Advances in Cement Research, 2017, 29, 405-417. | 0.7 | 16 |
| 254 | Identification of hydration stage of calcium sulfoaluminate cement at an early age with helium pycnometry. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1. | 1.3 | 9 |
| 255 | A simple method for determining the total amount of physically and chemically bound water of different cements. Journal of Thermal Analysis and Calorimetry, 2017, 130, 653-660. | 2.0 | 25 |
| 256 | Comparing ion diffusion in alternative cementitious materials in real time by using non-destructive X-ray imaging. Cement and Concrete Composites, 2017, 82, 67-79. | 4.6 | 18 |
| 257 | An improved basis for characterizing the suitability of fly ash as a cement replacement agent. Journal of the American Ceramic Society, 2017, 100, 4785-4800. | 1.9 | 48 |
| 258 | Factors affecting the leaching behaviors of magnesium phosphate cementâ€stabilized/solidified Pbâ€contaminated soil, part II: Dosage and curing age. Environmental Progress and Sustainable Energy, 2017, 36, 1351-1357. | 1.3 | 13 |
| 259 | Mechanical properties and microstructural analysis of slag based cementitious binder with calcined dolomite as an activator. Construction and Building Materials, 2017, 150, 345-354. | 3.2 | 16 |
| 260 | Synthesis reaction and compressive strength behavior of loess-fly ash based geopolymers for the development of sustainable green materials. Construction and Building Materials, 2017, 141, 491-500. | 3.2 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 261 | Sequestration of CO2 in reactive MgO cement-based mixes with enhanced hydration mechanisms. Construction and Building Materials, 2017, 143, 71-82. | 3.2 | 91 |
| 263 | Carbonation-induced volume change in alkali-activated slag. Construction and Building Materials, 2017, 144, 635-644. | 3.2 | 39 |
| 264 | Influence of curing temperatures on the hydration of calcium aluminate cement/Portland cement/calcium sulfate blends. Cement and Concrete Composites, 2017, 80, 298-306. | 4.6 | 54 |
| 265 | Mechanism of zinc oxide retardation in alkali-activated materials: an in situ X-ray pair distribution function investigation. Journal of Materials Chemistry A, 2017, 5, 11794-11804. | 5.2 | 89 |
| 266 | Carbon Utilization. Green Energy and Technology, 2017, , . | 0.4 | 1 |
| 267 | Physico-chemical mechanisms involved in the acceleration of the hydration of calcium sulfoaluminate cement by lithium ions. Cement and Concrete Research, 2017, 96, 42-51. | 4.6 | 57 |
| 268 | Carbonation of calcium sulfoaluminate mortars. Cement and Concrete Composites, 2017, 80, 123-134. | 4.6 | 134 |
| 269 | The influence of variable gypsum and water content on the strength and hydration of a belite-calcium sulphoaluminate cement. Advances in Applied Ceramics, 2017, 116, 199-206. | 0.6 | 26 |
| 270 | Constructional geomaterials: versatile earth resources in the service of humankindâ€"introduction to the thematic set of papers on: challenges to supply and quality of geomaterials used in construction. Bulletin of Engineering Geology and the Environment, 2017, 76, 1-9. | 1.6 | 19 |
| 271 | Use of oxyfuel combustion ash for the production of blended cements: A synergetic solution toward reduction of CO 2 emissions. Fuel Processing Technology, 2017, 156, 211-220. | 3.7 | 29 |
| 272 | Synthesis and hydration of alite-calcium sulfoaluminate cement. Advances in Cement Research, 2017, 29, 101-111. | 0.7 | 36 |
| 273 | The effect of silica fume on durability of alkali activated slag concrete. Construction and Building Materials, 2017, 134, 262-268. | 3.2 | 174 |
| 274 | Understanding the drying shrinkage performance of alkali-activated slag mortars. Cement and Concrete Composites, 2017, 76, 13-24. | 4.6 | 175 |
| 275 | Effect of graphene oxide on the mechanical properties and the formation of layered double hydroxides (LDHs) in alkali-activated slag cement. Construction and Building Materials, 2017, 132, 290-295. | 3.2 | 70 |
| 276 | Performance and hydration study of ultra-fine sulfoaluminate cement-based double liquid grouting material. Construction and Building Materials, 2017, 132, 262-270. | 3.2 | 61 |
| 277 | Formulation of Mechanochemically Evolved Fly Ash Based Hybrid Inorganicâ€"Organic Geopolymers with Multilevel Characterization. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 385-398. | 1.9 | 30 |
| 278 | Quantification of synthesized hydration products using synchrotron microtomography and spectral analysis. Construction and Building Materials, 2017, 157, 476-488. | 3.2 | 9 |
| 279 | Effects of the addition of inertized MSW fly ash on calcium aluminate cement mortars. Construction and Building Materials, 2017, 157, 1106-1116. | 3.2 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 280 | Carbonation of low-alkalinity mortars: Influence on corrosion of steel and on mortar microstructure. Cement and Concrete Research, 2017, 101, 33-45. | 4.6 | 23 |
| 281 | Grinding of Class-F fly ash using planetary ball mill: A simulation study to determine the breakage kinetics by direct- and back-calculation method. South African Journal of Chemical Engineering, 2017, 24, 135-147. | 1.2 | 12 |
| 282 | Using gypsum to control hydration kinetics of CSA cements. Construction and Building Materials, 2017, 155, 154-163. | 3.2 | 116 |
| 283 | Effect of hydration kinetics on properties of compositionally similar binders. Cement and Concrete Research, 2017, 101, 13-24. | 4.6 | 51 |
| 284 | Development of strong lightweight cementitious matrix for lightweight concrete simply by increasing a water-to-binder ratio in Ca(OH)2-Na2CO3-activated fly ash system. Construction and Building Materials, 2017, 152, 444-455. | 3.2 | 16 |
| 285 | Durability of alkali-activated materials in aggressive environments: A review on recent studies. Construction and Building Materials, 2017, 152, 598-613. | 3.2 | 225 |
| 286 | Hydration evolution and compressive strength of calcium sulphoaluminate cement constantly cured over the temperature range of 0 to 80 Â°C. Cement and Concrete Research, 2017, 100, 203-213. | 4.6 | 113 |
| 287 | Influence of admixtures on rheological properties and heat of hydration of alkali aluminosilicate cement. Advances in Cement Research, 2017, 29, 397-403. | 0.7 | 14 |
| 288 | Crystallographic Analysis of Sr-Bearing Yeâ€™elimite. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1694-1702. | 1.9 | 6 |
| 289 | Filler to improve concurrent flowability and segregation performance of concrete. Australian Journal of Structural Engineering, 2017, 18, 73-85. | 0.4 | 11 |
| 290 | Influence of pumice and zeolite on compressive strength, transport properties and resistance to chloride penetration of high strength self-compacting concretes. Construction and Building Materials, 2017, 151, 292-311. | 3.2 | 94 |
| 291 | Optimization of the alkali activation conditions of ground granulated SiMn slag. Construction and Building Materials, 2017, 150, 781-791. | 3.2 | 35 |
| 292 | Influence of nucleation seeding on the performance of carbonated MgO formulations. Cement and Concrete Composites, 2017, 83, 1-9. | 4.6 | 47 |
| 293 | Stability of MgO-modified geopolymeric gel structure exposed to a CO2-rich environment. Construction and Building Materials, 2017, 151, 178-185. | 3.2 | 18 |
| 294 | Towards sustainable concrete. Nature Materials, 2017, 16, 698-699. | 13.3 | 683 |
| 295 | Effectiveness of a hydrothermally produced alternative cementitious material on the physical and mechanical performance of concrete. Journal of Cleaner Production, 2017, 142, 3269-3280. | 4.6 | 4 |
| 296 | Flexural strength and elastic modulus of ambient-cured blended low-calcium fly ash geopolymer concrete. Construction and Building Materials, 2017, 130, 22-31. | 3.2 | 328 |
| 297 | Utilisation of alkali activated glass powder in binary mixtures with Portland cement, slag, fly ash and hydrated lime. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1. | 1.3 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 298 | Fracture properties of GGBFS-blended fly ash geopolymer concrete cured in ambient temperature. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1. | 1.3 | 69 |
| 299 | Compressive Strength and Microstructure of Alkali-Activated Blast Furnace Slag/Sewage Sludge Ash (GGBS/SSA) Blends Cured at Room Temperature. Waste and Biomass Valorization, 2017, 8, 1441-1451. | 1.8 | 32 |
| 300 | Effects of micro and nanoparticles of SiO 2 on the permeability of alkali activated slag concrete. Construction and Building Materials, 2017, 131, 205-213. | 3.2 | 115 |
| 301 | Kinetic Analysis for Formation Process of Sr-Bearing Yeâ€™elimite. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1861-1869. | 1.9 | 8 |
| 302 | 4. Thermodynamic modelling of cement hydration: Portland cements â€“ blended cements â€“ calcium sulfoaluminate cements. , 2017, , 103-144. | | 3 |
| 303 | 7. Crystallography and crystal chemistry of AFm phases related to cement chemistry. , 2017, , 191-250. | | 0 |
| 304 | Effect of Calcium Carbonate Fineness on Calcium Sulfoaluminate-Belite Cement. Materials, 2017, 10, 900. | 1.3 | 50 |
| 305 | Acceleration of Intended Pozzolanic Reaction under Initial Thermal Treatment for Developing Cementless Fly Ash Based Mortar. Materials, 2017, 10, 225. | 1.3 | 36 |
| 306 | Synthesis of Nanoscale CaO-Al2O3-SiO2-H2O and Na2O-Al2O3-SiO2-H2O Using the Hydrothermal Method and Their Characterization. Materials, 2017, 10, 695. | 1.3 | 20 |
| 307 | Progress in the Adoption of Geopolymer Cement**This chapter is an updated version of the article: Van Deventer JSJ, Provis JL, Duxson P. Technical and commercial progress in the adoption of geopolymer cement. Miner Eng 2012;29:89â€“104.. , 2017, , 217-262. | | 13 |
| 308 | Alkali-Activated Cement-Based Binders (AACBs) as Durable and Cost-Competitive Low-CO2 Binder Materials. , 2017, , 195-216. | | 20 |
| 309 | Calcium Sulfoaluminate, Geopolymeric, and Cementitious Mortars for Structural Applications. Environments - MDPI, 2017, 4, 64. | 1.5 | 21 |
| 310 | Enhancement Experiment on Cementitious Activity of Copper-Mine Tailings in a Geopolymer System. Fibers, 2017, 5, 47. | 1.8 | 25 |
| 311 | Engineering Properties and Microstructural Performance of Low Energy Super-Sulfated Cement Using Industrial Waste Anhydrite. MATEC Web of Conferences, 2017, 130, 04001. | 0.1 | 1 |
| 312 | A influÃªncia da composiÃ§Ã£o quÃmica e da finura no desempenho de cimentos Ã¡lcali ativados obtidos com escÃ³rias de alto forno. Revista Materia, 2017, 22, . | 0.1 | 1 |
| 313 | Building materials. , 2017, , 67-112. | | 3 |
| 314 | Alkali-activated binder containing wastes: a study with rice husk ash and red ceramic. Ceramica, 2017, 63, 44-51. | 0.3 | 14 |
| 315 | ConsideraÃ§Ãµes sobre a resistÃªncia mecÃ¢nica e o processo de hidrataÃ§Ã£o de cimentos supersulfatados (CSS) formulados com fosfogesso. Revista Materia, 2017, 22, . | 0.1 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 316 | Reinforcement effects of polyvinyl alcohol and polypropylene fibers on flexural behaviors of sulfoaluminate cement matrices. Cement and Concrete Composites, 2018, 88, 139-149. | 4.6 | 57 |
| 317 | Characterisation of pore structure development of alkali-activated slag cement during early hydration using electrical responses. Cement and Concrete Composites, 2018, 89, 139-149. | 4.6 | 49 |
| 318 | Reducing greenhouse gas emissions for prescribed concrete compressive strength. Construction and Building Materials, 2018, 167, 918-928. | 3.2 | 40 |
| 319 | Multi-Objective Optimization of Alkali Activator Agents for FA- and GGBFS-Based Geopolymer Lightweight Mortars. Arabian Journal for Science and Engineering, 2018, 43, 5333-5347. | 1.7 | 11 |
| 320 | Crack growth resistance in fibre reinforced alkali-activated fly ash concrete exposed to extreme temperatures. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1. | 1.3 | 13 |
| 321 | Slag-Based Cements That Resist Damage Induced by Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 5067-5075. | 3.2 | 39 |
| 322 | Matrix hybridization using waste fuel ash and slag in alkali-activated composites and its influence on maturity of fiber-matrix bond. Journal of Cleaner Production, 2018, 177, 857-867. | 4.6 | 23 |
| 323 | Application areas of phosphogypsum in production of mineral binders and composites based on them: a review of research results. MATEC Web of Conferences, 2018, 149, 01012. | 0.1 | 14 |
| 324 | Engineering properties of lightweight geopolymer synthesized from coal bottom ash and rice husk ash. AIP Conference Proceedings, 2018, , . | 0.3 | 11 |
| 325 | Experimental study of calcium sulfoaluminate cement-based self-leveling compound exposed to various temperatures and moisture conditions: Hydration mechanism and mortar properties. Cement and Concrete Research, 2018, 108, 103-115. | 4.6 | 38 |
| 326 | Strength evaluation by using polycarboxylate superplasticizer and solidification efficiency of Cr 6+ , Pb 2+ and Cd 2+ in composite based geopolymer. Journal of Cleaner Production, 2018, 188, 807-815. | 4.6 | 71 |
| 327 | AH3 phase in the hydration product system of AFt-AFm-AH3 in calcium sulfoaluminate cements: A microstructural study. Construction and Building Materials, 2018, 167, 587-596. | 3.2 | 67 |
| 328 | Hydration mechanism of composite binders containing blast furnace ferronickel slag at different curing temperatures. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2291-2301. | 2.0 | 39 |
| 329 | Mechanical behaviour of micro-fine steel fibre reinforced sulphoaluminate cement composite. Construction and Building Materials, 2018, 170, 91-100. | 3.2 | 23 |
| 330 | Nanostructural characterization of Al(OH)<sub>3</sub> formed during the hydration of calcium sulfoaluminate cement. Journal of the American Ceramic Society, 2018, 101, 4262-4274. | 1.9 | 45 |
| 331 | Corrosion resistance of steel embedded in sulfoaluminate-based binders. Cement and Concrete Composites, 2018, 88, 211-219. | 4.6 | 33 |
| 332 | An experimental investigation on self-compacting alkali activated slag concrete mixes. Journal of Building Engineering, 2018, 17, 1-12. | 1.6 | 55 |
| 333 | Early-Age Strength of Alkali-Activated Municipal Slagâ€“Fly Ashâ€“Based Geopolymer Mortar. Journal of Materials in Civil Engineering, 2018, 30, . | 1.3 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 334 | Thermal evolution of hydrates in carbonation-cured Portland cement. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1. | 1.3 | 28 |
| 335 | Microcalorimetric study of the effect of calcium hydroxide and temperature on the alkaline activation of coal fly ash. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2395-2410. | 2.0 | 17 |
| 336 | Engineering Properties and Bonding Behavior of Self-Compacting Concrete Made with No-Cement Binder. Journal of Materials in Civil Engineering, 2018, 30, . | 1.3 | 13 |
| 337 | Effect of aggressive chemicals on durability and microstructure properties of concrete containing crushed new concrete aggregate and non-traditional supplementary cementitious materials. Construction and Building Materials, 2018, 163, 482-495. | 3.2 | 62 |
| 338 | Comparing the pozzolanic activity properties of obsidian to those of fly ash and blast furnace slag. Construction and Building Materials, 2018, 164, 297-307. | 3.2 | 57 |
| 339 | Efficient method of producing clinker-free binding materials using electromagnetic vortex milling. Materials Letters, 2018, 226, 13-18. | 1.3 | 7 |
| 340 | Prediction of Compressive Strength of Geopolymers Using Multi-objective Feature Selection. Studies in Big Data, 2018, , 323-346. | 0.8 | 0 |
| 341 | Preparation and Characterization of an Eco-Friendly Binder from Alkali-Activated Aluminosilicate Solid Industrial Wastes Containing CKD and GGBS. Journal of Materials in Civil Engineering, 2018, 30, . | 1.3 | 5 |
| 342 | Early hydration of calcium sulfoaluminate cement in the presence of hydroxyethyl methyl cellulose. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1429-1438. | 2.0 | 31 |
| 343 | Binder chemistry of sodium carbonate-activated CFBC fly ash. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1. | 1.3 | 22 |
| 344 | Effect of nano-silica on hydration and conversion of calcium aluminate cement. Construction and Building Materials, 2018, 169, 819-825. | 3.2 | 59 |
| 345 | Evaluation of heat resisting behaviour of basalt fibre reinforced FG tiles. Construction and Building Materials, 2018, 170, 679-689. | 3.2 | 16 |
| 346 | Mechanical properties and durability performance of concretes with Limestone Calcined Clay Cement (LC3). Cement and Concrete Research, 2018, 107, 136-151. | 4.6 | 295 |
| 347 | The influence of different additives on the early-stage hydration of calcium aluminate cement. Journal of Thermal Analysis and Calorimetry, 2018, 134, 89-99. | 2.0 | 8 |
| 348 | Increasing the reaction kinetics of alkali-activated fly ash binders for stabilisation of a silty sand pavement sub-base. Road Materials and Pavement Design, 2018, 19, 201-222. | 2.0 | 18 |
| 349 | The Effect of Alkaline Solution-to-Slag Ratio on Permeability of Alkali Activated Slag Concrete. International Journal of Civil Engineering, 2018, 16, 897-904. | 0.9 | 8 |
| 351 | Hydrate Phase Assemblages in Calcium Sulfoaluminate â€“ Metakaolin â€“ Limestone Blends. RILEM Bookseries, 2018, , 352-357. | 0.2 | 6 |
| 352 | Hydration kinetics and morphology of cement pastes with pozzolanic volcanic ash studied via synchrotron-based techniques. Journal of Materials Science, 2018, 53, 1743-1757. | 1.7 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 353 | Alkali-activated slag concrete: Fresh and hardened behaviour. Cement and Concrete Composites, 2018, 85, 22-31. | 4.6 | 151 |
| 354 | Susceptibility of Portland cement and blended cement concretes to plastic shrinkage cracking. Cement and Concrete Composites, 2018, 85, 44-55. | 4.6 | 59 |
| 355 | Split tensile strength of slag-based boroaluminosilicate geopolymer. Journal of the Australian Ceramic Society, 2018, 54, 65-70. | 1.1 | 14 |
| 356 | Improvement of workability and early strength of calcium sulphoaluminate cement at various temperature by chemical admixtures. Construction and Building Materials, 2018, 160, 427-439. | 3.2 | 75 |
| 357 | Carbon footprint of calcium sulfoaluminate clinker production. Journal of Cleaner Production, 2018, 172, 2278-2287. | 4.6 | 123 |
| 358 | The effect of metakaolin upon the formation of ettringite in metakaolinâ€“limeâ€“gypsum ternary systems. Journal of Thermal Analysis and Calorimetry, 2018, 133, 77-86. | 2.0 | 23 |
| 359 | Superabsorbent polymers as internal curing agents in alkali activated slag mortars. Construction and Building Materials, 2018, 159, 1-8. | 3.2 | 79 |
| 360 | Enhancing the performance of calcium sulfoaluminate blended cements with shrinkage reducing admixture or lightweight sand. Cement and Concrete Composites, 2018, 87, 29-43. | 4.6 | 32 |
| 361 | Superhigh strength of geopolymer with the addition of polyphosphate. Ceramics International, 2018, 44, 2578-2583. | 2.3 | 20 |
| 362 | Influence of set retarding admixtures on calcium sulfoaluminate cement hydration and property development. Cement and Concrete Research, 2018, 104, 105-113. | 4.6 | 69 |
| 363 | Effect of Alkali Activator on Preparation, and Mechanical and Thermal Properties of Iron Mine Tailing-Based Lightweight Materials. Solid State Phenomena, 0, 281, 940-945. | 0.3 | 1 |
| 364 | Fiber reinforced mortars based on free Portland-CSA binders under high stress rate. EPJ Web of Conferences, 2018, 183, 04013. | 0.1 | 4 |
| 365 | The contribution of life-cycle assessment to environmentally preferable concrete mix selection for breakwater applications. Ambiente ConstruÃdo, 2018, 18, 413-429. | 0.2 | 5 |
| 366 | Ternesite as a component of sulfobelitic cements. MATEC Web of Conferences, 2018, 149, 01011. | 0.1 | 4 |
| 367 | Selection of low impact concrete mixtures based on life-cycle assessment mixtures. Revista IBRACON De Estruturas E Materiais, 2018, 11, 1354-1380. | 0.3 | 0 |
| 368 | Outcomes of the round robin tests of RILEM TC 247-DTA on the durability of alkali-activated concrete. MATEC Web of Conferences, 2018, 199, 02024. | 0.1 | 3 |
| 369 | Effects of silicafume and fly ash on properties of alumina cement. MATEC Web of Conferences, 2018, 251, 01015. | 0.1 | 0 |
| 370 | Water-Resistant Gypsum Binding Agents and Concretes Based Thereof as Promising Materials for Building Green. IOP Conference Series: Earth and Environmental Science, 2018, 177, 012029. | 0.2 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 371 | Mesoscale Mechanisms of Cement Hydration: BNG Model and Particle Simulations. , 2018, , 1-21. | | 1 |
| 372 | Drying shrinkage in alkali-activated binders â€“ A critical review. Construction and Building Materials, 2018, 190, 533-550. | 3.2 | 261 |
| 373 | Development of reactive MgO-based Engineered Cementitious Composite (ECC) through accelerated carbonation curing. Construction and Building Materials, 2018, 191, 23-31. | 3.2 | 82 |
| 374 | Properties of alkali-activated ground granulated blast furnace slag blended with ferronickel slag. Construction and Building Materials, 2018, 192, 123-132. | 3.2 | 54 |
| 375 | Effect of limestone on rheological, shrinkage and mechanical properties of alkali â€“ Activated slag/fly ash grouting materials. Construction and Building Materials, 2018, 191, 1285-1292. | 3.2 | 70 |
| 376 | Revisiting the Effect of Slag in Reducing Heat of Hydration in Concrete in Comparison to Other Supplementary Cementitious Materials. Materials, 2018, 11, 1847. | 1.3 | 35 |
| 377 | CSA-Treated Sand for Geotechnical Application: Microstructure Analysis and Rapid Strength Development. Journal of Materials in Civil Engineering, 2018, 30, . | 1.3 | 27 |
| 378 | Microstructural comparison of the <scp>AH</scp><sub>3</sub> phase in the hydration of three structural modifications of ye'elimite. Journal of the American Ceramic Society, 2019, 102, 2165-2175. | 1.9 | 19 |
| 379 | Evaluation of alkali-activated blast furnace ferronickel slag as a cementitious material: Reaction mechanism, engineering properties and leaching behaviors. Construction and Building Materials, 2018, 188, 860-873. | 3.2 | 82 |
| 380 | Chemical phases and microstructural analysis of pastes based on magnesia cement. Construction and Building Materials, 2018, 188, 615-620. | 3.2 | 26 |
| 381 | Hydration and rheology control of concrete for digital fabrication: Potential admixtures and cement chemistry. Cement and Concrete Research, 2018, 112, 96-110. | 4.6 | 332 |
| 383 | Effect of dosage of sodium carbonate on the strength and drying shrinkage of sodium hydroxide based alkali-activated slag paste. Construction and Building Materials, 2018, 179, 11-24. | 3.2 | 80 |
| 384 | Optimization of heat cured fly ash/slag blend geopolymer mortars designed by â€œCombined Designâ€• method: Part 1. Construction and Building Materials, 2018, 178, 393-404. | 3.2 | 29 |
| 385 | Microstructural evolution of aluminum hydroxide gel during the hydration of calcium sulfoaluminate under different alkali concentrations. Construction and Building Materials, 2018, 180, 655-664. | 3.2 | 26 |
| 386 | Study on the preparation and properties of belite-yeâ€™elimite-alite cement. Construction and Building Materials, 2018, 182, 399-405. | 3.2 | 17 |
| 387 | Toward a sustainable materials system. Science, 2018, 360, 1396-1398. | 6.0 | 143 |
| 388 | Environmental perspectives of recycling various combustion ashes in cement production â€“ A review. Waste Management, 2018, 78, 401-416. | 3.7 | 126 |
| 389 | Influence of Different Curing Regimes on the Performance and Microstructure of Alkali-Activated Slag Concrete. Journal of Materials in Civil Engineering, 2018, 30, . | 1.3 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 390 | Effects of carbamide on fluidity and setting time of sulphoaluminate cement and properties of planting concrete from sulphoaluminate cement. Construction and Building Materials, 2018, 182, 290-297. | 3.2 | 24 |
| 391 | Technical and environmental characterization of hydraulic and alkaline binders. Journal of Cleaner Production, 2018, 196, 1306-1313. | 4.6 | 10 |
| 392 | Chloride-Binding Capacity of Portland Cement Paste Blended with Synthesized CA<sub>2</sub> (CaOÂ·2Al<sub>2</sub>O<sub>3</sub>). Advances in Materials Science and Engineering, 2018, 2018, 1-11. | 1.0 | 8 |
| 393 | Role of soluble aluminum species in the activating solution for synthesis of silico-aluminophosphate geopolymers. Cement and Concrete Composites, 2018, 93, 186-195. | 4.6 | 58 |
| 394 | Effect of a Synthetic Nano-CaO-Al2O3-SiO2-H2O Gel on the Early-Stage Shrinkage Performance of Alkali-Activated Slag Mortars. Materials, 2018, 11, 1128. | 1.3 | 17 |
| 395 | Sulfoaluminate cement-based concrete. , 2018, , 355-385. | | 9 |
| 396 | Evaluation of the preparation and fertilizer release performance of planting concrete made with recycled-concrete aggregates from demolition. Journal of Cleaner Production, 2018, 200, 54-64. | 4.6 | 27 |
| 397 | Mechanical properties of alkali activated ground SiMn slag mortars with different types of aggregates. Construction and Building Materials, 2018, 186, 79-89. | 3.2 | 23 |
| 398 | Binders alternative to Portland cement and waste management for sustainable constructionâ€"part 1. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 186-202. | 0.7 | 57 |
| 399 | From Julius Caesar to Sustainable Composite Materials: A Passage through Port Caisson Technology. Sustainability, 2018, 10, 1225. | 1.6 | 3 |
| 400 | The use of calcium sulfoaluminate cement to mitigate the alkali silica reaction in mortars. Construction and Building Materials, 2018, 184, 295-303. | 3.2 | 24 |
| 401 | Relations between structural characteristics and compressive strength in volcanic ash based oneâ€"part geopolymer systems. Journal of Building Engineering, 2018, 20, 130-136. | 1.6 | 32 |
| 402 | Carbon dioxide sequestration by alkali-activated materials. , 2018, , 279-298. | | 3 |
| 403 | A new method to create one-part non-Portland cement powder. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1447-1456. | 2.0 | 25 |
| 404 | Hydration mechanisms of supersulfated cement. Journal of Thermal Analysis and Calorimetry, 2018, 134, 971-980. | 2.0 | 49 |
| 405 | Structural analysis of composite metakaolin-based geopolymer concrete. Revista IBRACON De Estruturas E Materiais, 2018, 11, 535-543. | 0.3 | 17 |
| 406 | Characterisation and hydration process of synthetic Sr-bearing ye'elimite. Advances in Cement Research, 2018, 30, 245-255. | 0.7 | 7 |
| 407 | Prediction of water evaporation and stability of cold asphalt mixtures containing different types of cement. Construction and Building Materials, 2018, 186, 751-761. | 3.2 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 408 | Properties of quicklime(CaO)-activated Class F fly ash with the use of CaCl2. Cement and Concrete Research, 2018, 111, 147-156. | 4.6 | 48 |
| 409 | Assessment of geopolymers with Construction and Demolition Waste (CDW) aggregates as a building material. Construction and Building Materials, 2018, 181, 119-133. | 3.2 | 65 |
| 410 | Hydration characteristics and modeling of ternary system of municipal solid wastes incineration fly ash-blast furnace slag-cement. Construction and Building Materials, 2018, 180, 154-166. | 3.2 | 58 |
| 411 | Effect of shrinkage reducing admixture on early expansion and strength evolution of calcium sulfoaluminate blended cement. Cement and Concrete Composites, 2018, 92, 82-91. | 4.6 | 21 |
| 412 | Chloride binding of alkali-activated slag/fly ash cements. Construction and Building Materials, 2019, 226, 21-31. | 3.2 | 73 |
| 413 | Evaluation of sulfate and salt resistance of ferrochrome slag and blast furnace slagâ€based geopolymer concretes. Structural Concrete, 2019, 20, 1607-1621. | 1.5 | 33 |
| 414 | Self-Cleaning of Photocatalytic Mortar with Glass Aggregate and Calcium Sulfoaluminate-Belite Cement. Transportation Research Record, 2019, 2673, 704-715. | 1.0 | 2 |
| 415 | Alkali-Activated Mortar for Tunnel-Lining Structure Repair. Journal of Materials in Civil Engineering, 2019, 31, . | 1.3 | 12 |
| 416 | Hydration reaction and strength development of calcium sulfoaluminate cement-based mortar cured at cold temperatures. Construction and Building Materials, 2019, 224, 493-503. | 3.2 | 53 |
| 417 | Advances in understanding ye'elimite-rich cements. Cement and Concrete Research, 2019, 123, 105778. | 4.6 | 91 |
| 418 | Short and long-term behaviour of R.C. beams made with CSA binder. Engineering Structures, 2019, 197, 109370. | 2.6 | 6 |
| 419 | Influence of recycled concrete aggregates on alkali-activated slag mortar exposed to elevated temperatures. Journal of Building Engineering, 2019, 26, 100871. | 1.6 | 27 |
| 420 | A critical review on application of alkali activated slag as a sustainable composite binder. Case Studies in Construction Materials, 2019, 11, e00268. | 0.8 | 82 |
| 421 | Evaluation of Engineering Properties of Calcium Sulfoaluminate Cement-based Concretes Reinforced with Different Types of Fibers. Materials, 2019, 12, 2151. | 1.3 | 18 |
| 422 | Carbonation induced phase evolution in alkali-activated slag/fly ash cements: The effect of silicate modulus of activators. Construction and Building Materials, 2019, 223, 566-582. | 3.2 | 64 |
| 423 | Geopolymer, green alkali activated cementitious material: Synthesis, applications and challenges. Construction and Building Materials, 2019, 224, 930-949. | 3.2 | 190 |
| 424 | Influence of activator composition on the chloride binding capacity of alkali-activated slag. Cement and Concrete Composites, 2019, 104, 103368. | 4.6 | 69 |
| 425 | Effect of dolomite powder on the hydration and properties of calcium sulfoaluminate cements with different gypsum contents. Construction and Building Materials, 2019, 225, 302-310. | 3.2 | 41 |

| # | Article | IF | Citations |
|---|---|---|---|
| 426 | Physical-mechanical properties of fly ash/GGBFS geopolymer composites with recycled aggregates. Construction and Building Materials, 2019, 226, 139-151. | 3.2 | 130 |
| 427 | The application of silica gel waste for the two-step synthesis of wollastonite in temperature range of 200â€“950ÂÂ°C. Journal of Thermal Analysis and Calorimetry, 2019, 138, 2263-2273. | 2.0 | 10 |
| 428 | The reduction of chromite ore processing residues by green tea synthesized nano zerovalent iron and its solidification/stabilization in composite geopolymer. Journal of Cleaner Production, 2019, 234, 381-391. | 4.6 | 46 |
| 429 | Metakaolin/carbon black geopolymer with enhanced electrical properties. IOP Conference Series: Materials Science and Engineering, 2019, 549, 012033. | 0.3 | 0 |
| 430 | Shelf life of alkali activated cement: Effects of storage condition and duration. Construction and Building Materials, 2019, 222, 664-672. | 3.2 | 6 |
| 431 | Effects of comb-like PCE and linear copolymers on workability and early hydration of a calcium sulfoaluminate belite cement. Cement and Concrete Research, 2019, 123, 105801. | 4.6 | 55 |
| 432 | Dissolution kinetics of calcined kaolinite and montmorillonite in alkaline conditions: Evidence for reactive Al(V) sites. Journal of the American Ceramic Society, 2019, 102, 7720-7734. | 1.9 | 51 |
| 433 | Solidification/stabilization of municipal solid waste incineration fly ash using uncalcined coal gangueâ€“based alkali-activated cementitious materials. Environmental Science and Pollution Research, 2019, 26, 25609-25620. | 2.7 | 53 |
| 434 | Compressive strength and hydration process of ground granulated blast furnace slag-waste gypsum system managed by wet grinding. Construction and Building Materials, 2019, 228, 116777. | 3.2 | 47 |
| 435 | A study on initial setting time and the mechanical properties of AASC using the PS ball as fine aggregate. International Journal of Pavement Research and Technology, 2019, 12, 659-663. | 1.3 | 3 |
| 436 | Importance of Cation Species during Sulfate Resistance Tests for Alkali-Activated FA/GGBFS Blended Mortars. Materials, 2019, 12, 3547. | 1.3 | 6 |
| 437 | Numerical analysis and experimental validation of reinforced foamed concrete beam containing partial cement replacement. Case Studies in Construction Materials, 2019, 11, e00297. | 0.8 | 9 |
| 438 | Effect of marine sediments incorporation on the behaviour of alkali-activated GGBFS. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1. | 1.3 | 6 |
| 439 | Utilization of Several Industrial Wastes as Raw Material for Calcium Sulfoaluminate Cement. Materials, 2019, 12, 3319. | 1.3 | 22 |
| 440 | Seasonal heat storage in calcium sulfoaluminate based hardened cement pastes â€“ experiences with different prototypes. Journal of Energy Storage, 2019, 25, 100850. | 3.9 | 8 |
| 441 | Effects of polycarboxylate superplasticizers on fluidity and early hydration in sulfoaluminate cement system. Construction and Building Materials, 2019, 228, 116711. | 3.2 | 30 |
| 442 | Effect of the activator on the performance of alkali-activated slag mortars with pottery sand as fine aggregate. Construction and Building Materials, 2019, 197, 83-90. | 3.2 | 37 |
| 443 | Powder-diffraction characterization of cements. , 0, , 855-867. | | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 444 | Dynamic Behaviors of Fly Ashâ€“Groundâ€Granulated Blastâ€Furnace Slagâ€“Highâ€Magnesium Nickel Slagâ€Based Geopolymer Paste When Subjected to Impact Compressive Loadings. Advanced Engineering Materials, 2019, 21, 1900621. | 1.6 | 1 |
| 445 | Mechanical and Fracture Properties of Fly Ash Geopolymer Concrete Addictive with Calcium Aluminate Cement. Materials, 2019, 12, 2982. | 1.3 | 29 |
| 446 | Predicting compressive strength and electrical resistivity of eco-friendly concrete containing natural zeolite via GEP algorithm. Construction and Building Materials, 2019, 229, 116883. | 3.2 | 93 |
| 447 | Studies on high performance alkali activated slag concrete mixes subjected to aggressive environments and sustained elevated temperatures. Construction and Building Materials, 2019, 229, 116887. | 3.2 | 50 |
| 448 | Nanoscale Ordering and Depolymerization of Calcium Silicate Hydrates in the Presence of Alkalis. Journal of Physical Chemistry C, 2019, 123, 24873-24883. | 1.5 | 30 |
| 449 | Hydration of Calcium Sulfoaluminate-Based Binder Incorporating Red Mud and Silica Fume. Applied Sciences (Switzerland), 2019, 9, 2270. | 1.3 | 6 |
| 450 | An investigation of the carbonation of alkaline activated cement made from blast furnace slag generated by charcoal. Construction and Building Materials, 2019, 226, 117-125. | 3.2 | 17 |
| 451 | Engineering Properties and Optimal Conditions of Cementless Grouting Materials. Materials, 2019, 12, 3059. | 1.3 | 11 |
| 452 | Synthesis and characterisation of calcium sulfoaluminate cements produced by different chemical gypsums. Advances in Cement Research, 2019, 31, 113-123. | 0.7 | 26 |
| 453 | Compressive strength and hydration process of wet-grinded granulated blast-furnace slag activated by sodium sulfate and sodium carbonate. Cement and Concrete Composites, 2019, 97, 387-398. | 4.6 | 125 |
| 454 | Irreversible time-dependent rheological behavior of cement slurries: Constitutive model and experiments. Journal of Rheology, 2019, 63, 247-262. | 1.3 | 24 |
| 455 | Effect of slag on the mechanical properties and bond strength of fly ash-based engineered geopolymer composites. Composites Part B: Engineering, 2019, 164, 747-757. | 5.9 | 157 |
| 456 | Dependences of dynamic compressive and tensile strengths of four alkali-activated mortars on the loading rate and curing time. Construction and Building Materials, 2019, 202, 891-903. | 3.2 | 18 |
| 457 | Strength development and prediction of calcium sulfoaluminate treated sand with optimized gypsum for replacing OPC in ground improvement. Construction and Building Materials, 2019, 202, 308-318. | 3.2 | 27 |
| 458 | Effect of Early Age-Curing Methods on Drying Shrinkage of Alkali-Activated Slag Concrete. Materials, 2019, 12, 1633. | 1.3 | 26 |
| 459 | Simulating the Fracture of Notched Mortar Beams through Extended Finite-Element Method and Peridynamics. Journal of Engineering Mechanics - ASCE, 2019, 145, 04019049. | 1.6 | 13 |
| 460 | Performance evaluation of geopolymer concrete beams under monotonic loading. Structures, 2019, 20, 560-569. | 1.7 | 21 |
| 461 | Application of thermodynamic modelling to hydrated cements. Cement and Concrete Research, 2019, 123, 105779. | 4.6 | 123 |

| # | Article | IF | Citations |
|---|---|---|---|
| 462 | Silica Fume as Precursor in the Development of Sustainable and High-Performance MK-Based Alkali-Activated Materials Reinforced With Short PVA Fibers. Frontiers in Materials, 2019, 6, . | 1.2 | 19 |
| 463 | Molecular dynamics study on calcium aluminosilicate hydrate at elevated temperatures: Structure, dynamics and mechanical properties. Materials Chemistry and Physics, 2019, 233, 276-287. | 2.0 | 18 |
| 464 | Experimental evidence on formation of ulexite in sulfoaluminate cement paste mixed with high concentration borate solution and its retarding effects. Construction and Building Materials, 2019, 215, 777-785. | 3.2 | 20 |
| 465 | Production of geopolymer mortar system containing high calcium biomass wood ash as a partial substitution to fly ash: An early age evaluation. Composites Part B: Engineering, 2019, 174, 106941. | 5.9 | 51 |
| 466 | Effects of Aluminum Sulfate and Quicklime/Fluorgypsum Ratio on the Properties of Calcium Sulfoaluminate (CSA) Cement-Based Double Liquid Grouting Materials. Materials, 2019, 12, 1222. | 1.3 | 33 |
| 467 | Alkali-activated binders based on ground granulated blast furnace slag and phosphogypsum. Construction and Building Materials, 2019, 215, 371-380. | 3.2 | 56 |
| 468 | Mitigating the autogenous shrinkage of alkali-activated slag by metakaolin. Cement and Concrete Research, 2019, 122, 30-41. | 4.6 | 100 |
| 469 | Effect of modified phosphogypsum on the hydration properties of the phosphogypsum-based supersulfated cement. Construction and Building Materials, 2019, 214, 9-16. | 3.2 | 88 |
| 470 | Preliminary investigation of artificial reef concrete with sulphoaluminate cement, marine sand and sea water. Construction and Building Materials, 2019, 211, 837-846. | 3.2 | 33 |
| 471 | Local Ca-structure variation and microstructural characteristics on one-part activated slag system with various activators. Cement and Concrete Composites, 2019, 102, 1-13. | 4.6 | 11 |
| 472 | Reactivity and Hydration Property of Synthetic Air Quenched Slag with Different Chemical Compositions. Materials, 2019, 12, 932. | 1.3 | 12 |
| 473 | Geopolymers and Other Alkali-Activated Materials. , 2019, , 779-805. | | 17 |
| 474 | Influence of low calcium fly ash on compressive strength and hydration product of low energy super sulfated cement paste. Cement and Concrete Composites, 2019, 99, 40-48. | 4.6 | 44 |
| 475 | Engineering properties of natural pozzolan/slag based alkali-activated concrete. Construction and Building Materials, 2019, 208, 46-62. | 3.2 | 37 |
| 476 | Low clinker high performance concretes and their potential in CFRP-prestressed structural elements. Cement and Concrete Composites, 2019, 100, 130-138. | 4.6 | 22 |
| 477 | Chemical deformation of metakaolin based geopolymer. Cement and Concrete Research, 2019, 120, 108-118. | 4.6 | 135 |
| 478 | Early hydration of ye'elimite: Insights from thermodynamic modelling. Cement and Concrete Research, 2019, 120, 152-163. | 4.6 | 26 |
| 479 | Eco-efficient Cementitious System Consisting of Belite-Yeâ€™elimite-Ferrite Cement, Limestone Filler, and Silica Fume. ACS Sustainable Chemistry and Engineering, 2019, 7, 7941-7950. | 3.2 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 480 | Effect of coupled B/Na and B/Ba doping on hydraulic properties of belite-yeâ€™elimite-ferrite cement. Construction and Building Materials, 2019, 208, 23-35. | 3.2 | 26 |
| 481 | Alternative Cements: Recent Developments and Future Directions. , 2019, , . | | 5 |
| 482 | Effect of particle size distribution of metakaolin on hydration kinetics of tricalcium silicate. Journal of the American Ceramic Society, 2019, 102, 5976-5988. | 1.9 | 22 |
| 483 | Influence of Supersulfated Cement Composition on Hydration Process. Journal of Materials in Civil Engineering, 2019, 31, . | 1.3 | 23 |
| 484 | The Effect of Elevated Curing Temperatures on High Yeâ€™elimite Calcium Sulfoaluminate Cement Mortars. Materials, 2019, 12, 1072. | 1.3 | 33 |
| 485 | Predicting the degree of reaction of supplementary cementitious materials in cementitious pastes using a pozzolanic test. Construction and Building Materials, 2019, 204, 621-630. | 3.2 | 40 |
| 486 | Shrinkage and creep of high-performance concrete based on calcium sulfoaluminate cement. Cement and Concrete Composites, 2019, 98, 61-73. | 4.6 | 57 |
| 487 | The influence of the ageing of calcium aluminate cement on the properties of mortar. Construction and Building Materials, 2019, 205, 387-397. | 3.2 | 11 |
| 488 | Effect of ettringite seed crystals on the properties of calcium sulphoaluminate cement. Construction and Building Materials, 2019, 207, 249-257. | 3.2 | 59 |
| 489 | Use of Municipal Solid Waste Incinerator (MSWI) Fly Ash in Alkali Activated Slag Cement. Minerals, Metals and Materials Series, 2019, , 401-410. | 0.3 | 5 |
| 490 | Cleaner one-part geopolymer prepared by introducing fly ash sinking spherical beads: Properties and geopolymerization mechanism. Journal of Cleaner Production, 2019, 219, 686-697. | 4.6 | 43 |
| 491 | Properties and characterization of green one-part geopolymer activated by composite activators. Journal of Cleaner Production, 2019, 220, 188-199. | 4.6 | 147 |
| 492 | Predictions of compressive strength of GPC blended with GGBFS developed at varying temperatures. Construction and Building Materials, 2019, 206, 1-9. | 3.2 | 7 |
| 493 | Durability of alumina silicate concrete based on slag/fly ash blends against corrosion. Engineering, Construction and Architectural Management, 2019, 26, 1641-1651. | 1.8 | 6 |
| 494 | Mechanical Properties of Geopolymers Synthesized from Fly Ash and Red Mud under Ambient Conditions. Crystals, 2019, 9, 572. | 1.0 | 12 |
| 495 | Shrinkage of the alkali-activated slag mortars containing alternative activator. IOP Conference Series: Materials Science and Engineering, 2019, 660, 012001. | 0.3 | 2 |
| 496 | Further studies of the hydration of MgO-hydromagnesite blends. Cement and Concrete Research, 2019, 126, 105912. | 4.6 | 54 |
| 497 | Effects of CO2 Curing on Alkali-Activated Slag Paste Cured in Different Curing Conditions. Materials, 2019, 12, 3513. | 1.3 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 498 | Micromechanical Response of Crystalline Phases in Alternate Cementitious Materials using 3-Dimensional X-ray Techniques. Scientific Reports, 2019, 9, 18456. | 1.6 | 3 |
| 499 | Sustainable Road Design: Promoting Recycling and Non-Conventional Materials. Sustainability, 2019, 11, 6106. | 1.6 | 20 |
| 500 | Hydration and performance evolution of beliteâ€“ye'elimiteâ€“ferrite cement. Advances in Cement Research, 2019, 31, 124-137. | 0.7 | 30 |
| 501 | Design and construction application of concrete canvas for slope protection. Powder Technology, 2019, 344, 937-946. | 2.1 | 30 |
| 502 | Effective use of ground waste expanded perlite as green supplementary cementitious material in eco-friendly alkali activated slag composites. Journal of Cleaner Production, 2019, 213, 406-414. | 4.6 | 45 |
| 503 | Modifications of basic-oxygen-furnace slag microstructure and their effect on the rheology and the strength of alkali-activated binders. Cement and Concrete Composites, 2019, 97, 143-153. | 4.6 | 19 |
| 504 | Development of a novel sulphoalumitate cement-based composite combing fine steel fibers and phase change materials for thermal energy storage. Energy and Buildings, 2019, 183, 75-85. | 3.1 | 32 |
| 505 | Evaluation of sulfate resistance of slag contained concrete under steam curing. Construction and Building Materials, 2019, 195, 231-237. | 3.2 | 47 |
| 506 | Multi-fiber reinforced ettringite-based composites from industrial side streams. Journal of Cleaner Production, 2019, 211, 1065-1077. | 4.6 | 22 |
| 507 | Exploiting in-situ solid-state NMR spectroscopy to probe the early stages of hydration of calcium aluminate cement. Solid State Nuclear Magnetic Resonance, 2019, 99, 1-6. | 1.5 | 25 |
| 508 | Fracture response of metallic particulate-reinforced cementitious composites: Insights from experiments and multiscale numerical simulations. Cement and Concrete Composites, 2019, 97, 154-165. | 4.6 | 18 |
| 509 | Comparative study of two PCE superplasticizers with varied charge density in Portland cement and sulfoaluminate cement systems. Cement and Concrete Research, 2019, 115, 43-58. | 4.6 | 95 |
| 510 | New predictive methodology for the apparent activation energy and strength of conventional and rapid hardening concretes. Cement and Concrete Research, 2019, 115, 264-273. | 4.6 | 13 |
| 511 | CSA and slag: towards CSA composite binders. Advances in Cement Research, 2019, 31, 147-158. | 0.7 | 13 |
| 512 | Effect of slag, silica fume, and metakaolin on properties and performance of alkali-activated fly ash cured at ambient temperature. Construction and Building Materials, 2019, 197, 747-756. | 3.2 | 104 |
| 513 | Measurement and modeling needs for microstructure and reactivity of next-generation concrete binders. Cement and Concrete Composites, 2019, 101, 24-31. | 4.6 | 8 |
| 514 | Shrinkage mitigation of alkali-activated slag with natural cellulose fibres. Advances in Cement Research, 2019, 31, 47-57. | 0.7 | 10 |
| 515 | Mechanical properties and microstructure of magnesiaâ€“fly ash pastes. Road Materials and Pavement Design, 2019, 20, 1243-1254. | 2.0 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 516 | Effect of limestone powder on fracture and flexural behaviour of PVA fibre-reinforced sulfoaluminate cement. Magazine of Concrete Research, 2020, 72, 1243-1259. | 0.9 | 1 |
| 517 | Green concrete: A review of recent developments. Materials Today: Proceedings, 2020, 27, 54-58. | 0.9 | 109 |
| 518 | Application of central composite design to the optimization of fly ash-based geopolymers. Construction and Building Materials, 2020, 230, 116960. | 3.2 | 13 |
| 519 | Activation of Blast Furnace Slag with Soda Production Waste. Journal of Materials in Civil Engineering, 2020, 32, . | 1.3 | 17 |
| 520 | Effect of novel superabsorbent polymer composites on the fresh and hardened properties of alkali-activated slag. Construction and Building Materials, 2020, 232, 117225. | 3.2 | 17 |
| 521 | Alkali-activated slag substituted by metakaolin and dolomite at 20 and 50Â°C. Cement and Concrete Composites, 2020, 105, 103442. | 4.6 | 22 |
| 522 | Application of thermodynamic modeling to predict the stable hydrate phase assemblages in ternary CSA-OPC-anhydrite systems and quantitative verification by QXRD. Cement and Concrete Research, 2020, 128, 105956. | 4.6 | 24 |
| 523 | Investigation on the microstructure-related characteristics to elucidate performance of composite cement with limestone-calcined clay combination. Cement and Concrete Research, 2020, 129, 105959. | 4.6 | 87 |
| 524 | Influence of production parameters on calcium sulfoaluminate cements. Construction and Building Materials, 2020, 239, 117866. | 3.2 | 4 |
| 525 | Degradation of carbonated reactive MgO-based concrete exposed to nitric acid. Journal of CO2 Utilization, 2020, 36, 210-219. | 3.3 | 14 |
| 526 | Investigation on modulus of elasticity of fly ash-ground granulated blast furnace slag blended geopolymer concrete. Materials Today: Proceedings, 2020, 27, 718-723. | 0.9 | 20 |
| 527 | Alkali activated cement made from blast furnace slag generated by charcoal: Resistance to attack by sodium and magnesium sulfates. Construction and Building Materials, 2020, 238, 117710. | 3.2 | 32 |
| 528 | Environmental Impacts of Alternative Cement Binders. Environmental Science & Technology, 2020, 54, 677-686. | 4.6 | 93 |
| 529 | Clean and low-alkalinity one-part geopolymeric cement: Effects of sodium sulfate on microstructure and properties. Journal of Cleaner Production, 2020, 252, 119279. | 4.6 | 66 |
| 530 | Natural radioactivity of barite concrete shields containing commonly used supplementary materials. Construction and Building Materials, 2020, 236, 117569. | 3.2 | 12 |
| 531 | Influence of the yeâ€™elimite/anhydrite ratio on PC-CSA hybrid cements. Materials Today Communications, 2020, 22, 100778. | 0.9 | 12 |
| 532 | Laboratory production of calcium sulfoaluminate cements with high industrial waste content. Cement and Concrete Composites, 2020, 106, 103475. | 4.6 | 29 |
| 533 | Performance of reactive magnesia cement formulations containing fly ash and ground granulated blast-furnace slag. Construction and Building Materials, 2020, 232, 117275. | 3.2 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 534 | Study of nucleation and growth processes of ettringite in diluted conditions. Cement and Concrete Research, 2020, 127, 105915. | 4.6 | 26 |
| 535 | Effect of alkalis content on calcium sulfoaluminate (CSA) cement hydration. Cement and Concrete Research, 2020, 128, 105953. | 4.6 | 55 |
| 536 | Comparative study of hydration of monocalcium aluminate and quaternary phase and the amorphous AH3 phase in their hydrates. Journal of Thermal Analysis and Calorimetry, 2020, 141, 707-716. | 2.0 | 7 |
| 537 | The influence of superabsorbent polymer on the properties of alkali-activated slag pastes. Construction and Building Materials, 2020, 236, 117525. | 3.2 | 52 |
| 538 | Reduce, Reuse, Resilient? Life-Cycle Seismic and Environmental Performance of Buildings with Alternative Concretes. Journal of Infrastructure Systems, 2020, 26, . | 1.0 | 19 |
| 539 | Autogenous and drying shrinkage of mortars based on Portland and calcium sulfoaluminate cements. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1. | 1.3 | 23 |
| 540 | Carbon emissions reduction and financial effects of a cap and tax system on an operating supply chain in the cement sector. Journal of Cleaner Production, 2020, 275, 122583. | 4.6 | 39 |
| 541 | Improving properties of high-volume fly ash cement paste blended with Î²-hemihydrate from flue gas desulfurization gypsum. Construction and Building Materials, 2020, 261, 120494. | 3.2 | 26 |
| 542 | The Impact of the Amount of Water Used in Activation Solution and the Initial Temperature of Paste on the Rheological Behaviour and Structural Evolution of Metakaolin-Based Geopolymer Pastes. Sustainability, 2020, 12, 8216. | 1.6 | 16 |
| 543 | Novel use of calcium sulfoaluminate (CSA) cement for treating problematic soils. Construction and Building Materials, 2020, 260, 120433. | 3.2 | 26 |
| 544 | Characterization of sugarcane bagasse ash as a potential supplementary cementitious material: Comparison with coal combustion fly ash. Journal of Cleaner Production, 2020, 277, 123834. | 4.6 | 29 |
| 545 | Effect of Different Kinds of Zinc (II) on Early Hydration of Calcium Aluminate Cement. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 925-929. | 0.4 | 2 |
| 546 | Calcium sulfoaluminate clinker hydration at different alkali concentrations. Cement and Concrete Research, 2020, 138, 106251. | 4.6 | 31 |
| 547 | Mechanical and durability properties of ground calcium carbonate-added roller-compacted concrete for pavement. Journal of Materials Research and Technology, 2020, 9, 13341-13351. | 2.6 | 20 |
| 548 | Optimisation of bio medical waste ash in GGBS based of geopolymer concrete. IOP Conference Series: Materials Science and Engineering, 2020, 872, 012163. | 0.3 | 14 |
| 549 | Performance of fibre reinforced alkali-activated composites â€“ A review. Materialia, 2020, 12, 100782. | 1.3 | 44 |
| 550 | Green and Durable Lightweight Aggregate Concrete: The Role of Waste and Recycled Materials. Materials, 2020, 13, 3041. | 1.3 | 18 |
| 551 | Effect of Molarity and Temperature of Alkaline Activator Solution on the Rheological Properties and Structure Formation of Alkali-Activated Refractory Materials. Glass and Ceramics (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 | 0.4 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 552 | Carbonation and Chloride Ionsâ€™ Penetration of Alkali-Activated Materials: A Review. Molecules, 2020, 25, 5074. | 1.7 | 21 |
| 553 | A Novel Class F Fly Ash-Based Geopolymer and Its Application in Coal Mine Grouting. Advances in Civil Engineering, 2020, 2020, 1-12. | 0.4 | 4 |
| 554 | Behavior of blends of CSA and Portland cements in high chloride environment. Construction and Building Materials, 2020, 262, 120852. | 3.2 | 29 |
| 555 | Experiment Research on the Mechanical Performance of Alkali-activated Slag Cementitious Material. IOP Conference Series: Materials Science and Engineering, 2020, 768, 022030. | 0.3 | 1 |
| 556 | Investigation on Performance Enhancement of Fly ash-GGBFS Based Graphene Geopolymer Concrete. Journal of Building Engineering, 2020, 32, 101659. | 1.6 | 35 |
| 557 | Shrinkage Characteristics of Alkali-Activated High-Volume Fly-Ash Pastes Incorporating Silica Fume. Journal of Materials in Civil Engineering, 2020, 32, 04020307. | 1.3 | 7 |
| 558 | Effect of calcined perlite content on elevated temperature behaviour of alkali activated slag mortars. Journal of Building Engineering, 2020, 32, 101717. | 1.6 | 11 |
| 559 | Mechanical and thermal charactristics of self-compacting concrete produced with blast furnace slag and fly ash. HBRC Journal, 2020, 16, 283-298. | 0.2 | 1 |
| 560 | A numerical approach for designing composite cements with calcined clay and limestone. Cement and Concrete Research, 2020, 138, 106232. | 4.6 | 43 |
| 561 | Effect of Internal Curing by Super Absorbent Polymer on the Autogenous Shrinkage of Alkali-Activated Slag Mortars. Materials, 2020, 13, 4318. | 1.3 | 10 |
| 562 | The influence of surface treatment on the transport properties of hardened calcium sulfoaluminate cement-based materials. Cement and Concrete Composites, 2020, 114, 103784. | 4.6 | 14 |
| 563 | Pressed recycled fly ash and carbide slag: Hydration of entirely waste-stream building components. Construction and Building Materials, 2020, 265, 120282. | 3.2 | 8 |
| 564 | Alkali cation effects on chloride binding of alkali-activated fly ash and metakaolin geopolymers. Cement and Concrete Composites, 2020, 114, 103721. | 4.6 | 71 |
| 565 | CO2 Uptake and Physicochemical Properties of Carbonation-Cured Ternary Blend Portland Cementâ€“Metakaolinâ€“Limestone Pastes. Materials, 2020, 13, 4656. | 1.3 | 19 |
| 566 | Performance and sustainability overview of alkali-activated self-compacting concrete. Waste Disposal & Sustainable Energy, 2020, 2, 165-175. | 1.1 | 34 |
| 567 | Influence of metakaolin on the conversion and compressive strength of quaternary phase paste. Journal of the American Ceramic Society, 2020, 103, 7213-7225. | 1.9 | 5 |
| 568 | Alkali-activated concretes based on fly ash and blast furnace slag: Compressive strength, water absorption and chloride permeability. Ingenieria E Investigacion, 2020, 40, . | 0.2 | 2 |
| 569 | Environmental impacts and decarbonization strategies in the cement and concrete industries. Nature Reviews Earth & Environment, 2020, 1, 559-573. | 12.2 | 483 |

| # | Article | IF | Citations |
|---|---|---|---|
| 570 | Experimental Studies and Microstructure Analysis for Rapid-Hardening Cement Emulsified Asphalt Mortar. Journal of Construction Engineering and Management - ASCE, 2020, 146, . | 2.0 | 11 |
| 571 | Improvement of Performances of the Gypsum-Cement Fiber Reinforced Composite (GCFRC). Materials, 2020, 13, 3847. | 1.3 | 48 |
| 572 | Development of Energy-Efficient Techniques for Manufacturing and Studying Clinkerless Mineral Binders Made from Granulated Blast-Furnace Slag with a Fly Ash Admixture. Refractories and Industrial Ceramics, 2020, 61, 106-111. | 0.2 | 1 |
| 573 | Development of gypsumâ€based composites with tensile strainâ€hardening characteristics. Journal of the American Ceramic Society, 2020, 103, 7115-7126. | 1.9 | 8 |
| 574 | Sol-gel technology for the production of high-strength refractory materials based on binders. IOP Conference Series: Materials Science and Engineering, 2020, 962, 022024. | 0.3 | 1 |
| 575 | Durability performance evaluation of green geopolymer concrete. European Journal of Environmental and Civil Engineering, 2022, 26, 4297-4345. | 1.0 | 18 |
| 576 | Role of Natural Stone Wastes and Minerals in the Alkali Activation Process: A Review. Materials, 2020, 13, 2284. | 1.3 | 16 |
| 577 | Phase development and hydration kinetics of belite-calcium sulfoaluminate cements at different curing temperatures. Ceramics International, 2020, 46, 29421-29428. | 2.3 | 43 |
| 578 | Polymer cements by copolymerization of waste sulfur, oleic acid, and pozzolan cements. Sustainable Chemistry and Pharmacy, 2020, 16, 100249. | 1.6 | 28 |
| 579 | Quantitative Assessment of Alkali-Activated Materials: Environmental Impact and Property Assessments. Journal of Infrastructure Systems, 2020, 26, . | 1.0 | 14 |
| 580 | Adobe bricks reinforced with paper & pulp wastes improving thermal and mechanical properties. Construction and Building Materials, 2020, 254, 119314. | 3.2 | 43 |
| 581 | Optimization of gypsum and slag contents in blended cement containing slag. Cement and Concrete Composites, 2020, 112, 103674. | 4.6 | 59 |
| 582 | Mechanisms of autogenous shrinkage of alkali-activated slag and fly ash pastes. Cement and Concrete Research, 2020, 135, 106107. | 4.6 | 124 |
| 583 | Synthesis of kaolin-based alkali-activated cement: carbon footprint, cost and energy assessment. Journal of Materials Research and Technology, 2020, 9, 8367-8378. | 2.6 | 37 |
| 584 | Study on engineering properties of foam concrete containing waste seashell. Construction and Building Materials, 2020, 260, 119896. | 3.2 | 37 |
| 585 | The effects of (diâ€triâ€valent)â€cation partitioning and intercalant anionâ€type on the solubility of hydrotalcites. Journal of the American Ceramic Society, 2020, 103, 6025-6039. | 1.9 | 14 |
| 586 | Effect of fineness and citric acid addition on the hydration of yeâ€™elimite. Construction and Building Materials, 2020, 258, 119686. | 3.2 | 8 |
| 587 | Effect of calcium sulfoaluminate cement prehydration on hydration and strength gain of calcium sulfoaluminate cement-ordinary portland cement mixtures. Cement and Concrete Composites, 2020, 112, 103694. | 4.6 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 588 | The characteristics and formation mechanism of the dark rim in alkali-activated slag. Cement and Concrete Composites, 2020, 112, 103682. | 4.6 | 38 |
| 589 | Influence of slag on mechanical and durability properties of fly ash-based geopolymer concrete. Journal of the Korean Ceramic Society, 2020, 57, 530-545. | 1.1 | 28 |
| 590 | Internal curing by superabsorbent polymers in alkali-activated slag. Cement and Concrete Research, 2020, 135, 106123. | 4.6 | 71 |
| 591 | Properties of fresh and hardened fly ash/slag based geopolymer concrete: A review. Journal of Cleaner Production, 2020, 270, 122389. | 4.6 | 243 |
| 592 | Rheology and Mechanical Properties of Fly Ash-Based Geopolymer Mortars with Ground Granulated Blast Furnace Slag Addition. Energies, 2020, 13, 2639. | 1.6 | 21 |
| 593 | Nephrite-Bearing Mining Waste As a Promising Mineral Additive in the Production of New Cement Types. Minerals (Basel, Switzerland), 2020, 10, 394. | 0.8 | 11 |
| 594 | Enhancing ultra-early strength of sulphoaluminate cement-based materials by incorporating graphene oxide. Nanotechnology Reviews, 2020, 9, 17-27. | 2.6 | 31 |
| 595 | Chloride-Induced Steel Corrosion in Concrete Under Service Loads. , 2020, , . | | 5 |
| 596 | Graphene nanoplatelet for enhancement the mechanical properties and durability characteristics of alkali activated binder. Construction and Building Materials, 2020, 249, 118773. | 3.2 | 42 |
| 597 | Durability of calcium sulfoaluminate cement concrete. Journal of Zhejiang University: Science A, 2020, 21, 118-128. | 1.3 | 29 |
| 598 | Expansion behavior and microstructure change of alkali-activated slag grouting material in sulfate environment. Construction and Building Materials, 2020, 260, 119909. | 3.2 | 18 |
| 599 | Go green by â€œcement less technology in construction industryâ€• A review. AIP Conference Proceedings, 2020, , . | 0.3 | 2 |
| 600 | Properties of slag-based geopolymer pervious concrete for ambient curing condition. IOP Conference Series: Materials Science and Engineering, 2020, 737, 012068. | 0.3 | 2 |
| 601 | Influence of Fly Ash on Mechanical Properties and Hydration of Calcium Sulfoaluminate-Activated Supersulfated Cement. Materials, 2020, 13, 2514. | 1.3 | 8 |
| 602 | Novel low emissions supersulfated cements of pumice in concrete; mechanical and electrochemical characterization. Journal of Cleaner Production, 2020, 272, 122520. | 4.6 | 25 |
| 603 | Influence of the calcination temperature of phosphogypsum on the performance of supersulfated cements. Construction and Building Materials, 2020, 262, 119961. | 3.2 | 40 |
| 604 | The performance of calcium sulfoaluminate cement for preventing early-age frost damage. Construction and Building Materials, 2020, 254, 119322. | 3.2 | 20 |
| 605 | Development of precast geopolymer concrete via oven and microwave radiation curing with an environmental assessment. Journal of Cleaner Production, 2020, 255, 120290. | 4.6 | 72 |

| # | Article | IF | Citations |
|---|---|---|---|
| 606 | Shear tests on reinforced slag-based geopolymer concrete beams with transverse reinforcement. Engineering Structures, 2020, 219, 110966. | 2.6 | 34 |
| 607 | Influence of cobinders on durability and mechanical properties of alkali-activated magnesium aluminosilicate binders from soapstone. , 2020, , 877-895. | | 4 |
| 608 | Factors affecting the slump and strength development of geopolymer concrete. Construction and Building Materials, 2020, 261, 119945. | 3.2 | 41 |
| 609 | Self-healing in fiber-reinforced alkali-activated slag composites incorporating different additives. Construction and Building Materials, 2020, 262, 120059. | 3.2 | 20 |
| 610 | Bond performance of reinforced alkali-activated composites using water-quenched slag as alternative fine aggregates. Structures, 2020, 24, 137-150. | 1.7 | 9 |
| 611 | Utilization and performance evaluation of molasses as a retarder and plasticizer for calcium sulfoaluminate cement-based mortar. Construction and Building Materials, 2020, 243, 118201. | 3.2 | 27 |
| 612 | A new hydration kinetics model of composite cementitious materials, Part 2: Physical effect of SCMs. Journal of the American Ceramic Society, 2020, 103, 3880-3895. | 1.9 | 14 |
| 613 | Impact of varying Li2CO3 additions on the hydration of ternary CSA-OPC-anhydrite mixes. Cement and Concrete Research, 2020, 131, 106015. | 4.6 | 17 |
| 614 | Degradation mechanisms of alkali-activated binders in sulfuric acid: The role of calcium and aluminum availability. Construction and Building Materials, 2020, 246, 118477. | 3.2 | 19 |
| 615 | Immobilization of heavy metals, selenate, and sulfate from a hazardous industrial side stream by using calcium sulfoaluminate-belite cement. Journal of Cleaner Production, 2020, 258, 120560. | 4.6 | 34 |
| 616 | Calcium sulfoaluminate and alkali-activated fly ash cements as alternative to Portland cement: study on chemical, physical-mechanical, and durability properties of mortars with the same strength class. Construction and Building Materials, 2020, 246, 118436. | 3.2 | 29 |
| 617 | Enhancing alkali-activation of metakaolin-based geopolymers using dry water. Journal of Cleaner Production, 2020, 258, 120676. | 4.6 | 16 |
| 618 | Electrical tomography for characterizing transport properties in cement-based materials: A review. Construction and Building Materials, 2020, 244, 118299. | 3.2 | 29 |
| 619 | The role of limestone and calcined clay on the rheological properties of LC3. Cement and Concrete Composites, 2020, 107, 103516. | 4.6 | 80 |
| 620 | Effect of Polypropylene Fiber on Properties of Alkali-Activated Slag Mortar. Advances in Civil Engineering, 2020, 2020, 1-12. | 0.4 | 5 |
| 621 | Rheology, shrinkage and pore structure of alkali-activated slag-fly ash mortar incorporating copper slag as fine aggregate. Construction and Building Materials, 2020, 242, 118029. | 3.2 | 41 |
| 622 | Evaluation of the combination of desert sand and calcium sulfoaluminate cement for the production of concrete. Construction and Building Materials, 2020, 243, 118281. | 3.2 | 33 |
| 623 | Electrochemical responses and chloride ingress in reinforced Belite-Yeâ€™elimite-Ferrite (BYF) cement matrix exposed to exogenous salt sources. Corrosion Science, 2020, 166, 108469. | 3.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 624 | Mechanism of calcination modification of phosphogypsum and its effect on the hydration properties of phosphogypsum-based supersulfated cement. Construction and Building Materials, 2020, 243, 118226. | 3.2 | 89 |
| 625 | Microstructure and Properties of Sulfoaluminate Cement-Based Grouting Materials: Effect of Calcium Sulfate Variety. Advances in Materials Science and Engineering, 2020, 2020, 1-8. | 1.0 | 4 |
| 626 | Effects of Accelerators and Retarders in Early Strength Development of Concrete Based on Low-Temperature-Cured Ordinary Portland and Calcium Sulfoaluminate Cement Blends. Materials, 2020, 13, 1505. | 1.3 | 13 |
| 627 | Properties of silicon manganese slag as an aggregate for concrete depending on cooling conditions. Journal of Material Cycles and Waste Management, 2020, 22, 1067-1080. | 1.6 | 7 |
| 628 | Advances in alkali-activation of clay minerals. Cement and Concrete Research, 2020, 132, 106050. | 4.6 | 201 |
| 629 | Effect of NaOH content on hydration, mineralogy, porosity and strength in alkali/sulfate-activated binders from ground granulated blast furnace slag and phosphogypsum. Cement and Concrete Research, 2020, 132, 106054. | 4.6 | 83 |
| 630 | Self-cementation solidification of heavy metals in lead-zinc smelting slag through alkali-activated materials. Construction and Building Materials, 2020, 249, 118756. | 3.2 | 53 |
| 631 | Feasibility of rapid-regeneration utilization in situ for waste cement-stabilized macadam. Journal of Cleaner Production, 2020, 263, 121452. | 4.6 | 9 |
| 632 | Influence of activator solution on microstructural and mechanical properties of geopolymer concrete. Materialia, 2020, 10, 100659. | 1.3 | 26 |
| 633 | Low-Carbon Concrete Based on Binary Biomass Ashâ€“Silica Fume Binder to Produce Eco-Friendly Paving Blocks. Materials, 2020, 13, 1534. | 1.3 | 15 |
| 634 | Drying shrinkage and permeability properties of fibre reinforced alkali-activated composites. Construction and Building Materials, 2020, 251, 119076. | 3.2 | 28 |
| 635 | Eco-friendly mortar with high-volume diatomite and fly ash: Performance and life-cycle assessment with regional variability. Journal of Cleaner Production, 2020, 261, 121224. | 4.6 | 59 |
| 636 | Effect of GGBS Addition on Reactivity and Microstructure Properties of Ambient Cured Fly Ash Based Geopolymer Concrete. Silicon, 2021, 13, 507-516. | 1.8 | 43 |
| 637 | Reactivity and hydration behavior in groundnut shell ash based pozzolanic concrete. Materials Today: Proceedings, 2021, 38, 508-513. | 0.9 | 4 |
| 638 | Impact of sodium silicate solution chemistry on product formation and jelly hardening of alkali-activated GGBS mortars. Magazine of Concrete Research, 2022, 74, 42-53. | 0.9 | 2 |
| 639 | Sustainable Metal Recovery from Secondary Resources: Screening and Kinetic Studies Using Analogue Heterotrophic Metabolites. Waste and Biomass Valorization, 2021, 12, 2703-2721. | 1.8 | 2 |
| 640 | Artificial neural network model to predict the compressive strength of eco-friendly geopolymer concrete incorporating silica fume and natural zeolite. Journal of Cleaner Production, 2021, 279, 123697. | 4.6 | 181 |
| 641 | Radiation Shielding Concrete with alternate constituents: An approach to address multiple hazards. Journal of Hazardous Materials, 2021, 404, 124201. | 6.5 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 642 | Mechanical and microstructural characterization of geopolymers from assorted construction and demolition waste-based masonry and glass. Journal of Cleaner Production, 2021, 280, 124358. | 4.6 | 84 |
| 643 | Hydration mechanisms and durability of hybrid alkaline cements (HACs): A review. Construction and Building Materials, 2021, 266, 121039. | 3.2 | 46 |
| 644 | Optimization for the preparation of composite geopolymer using response surface methodology and its application in lead-zinc tailings solidification. Construction and Building Materials, 2021, 266, 120969. | 3.2 | 55 |
| 645 | Incorporation of zinc in calcium sulfoaluminate cement clinker. Advances in Cement Research, 2021, 33, 311-317. | 0.7 | 7 |
| 646 | Effects of SAE and SBR on properties of rapid hardening repair mortar. Journal of Building Engineering, 2021, 35, 102000. | 1.6 | 12 |
| 647 | Effect of fineness on the pozzolanic reaction kinetics of slag in composite binders: Experiment and modelling. Construction and Building Materials, 2021, 273, 121695. | 3.2 | 18 |
| 648 | A comparison of water curing and standard curing on one-part alkali-activated fly ash sinking beads and slag: Properties, microstructure and mechanisms. Construction and Building Materials, 2021, 273, 121715. | 3.2 | 14 |
| 649 | Bacteria-induced internal carbonation of reactive magnesia cement. Construction and Building Materials, 2021, 267, 121748. | 3.2 | 20 |
| 650 | Sustainable development of geopolymer binder using sodium silicate synthesized from agricultural waste. Journal of Cleaner Production, 2021, 286, 124959. | 4.6 | 35 |
| 651 | Mechanisms dominating thixotropy in limestone calcined clay cement (LC3). Cement and Concrete Research, 2021, 140, 106316. | 4.6 | 66 |
| 652 | The role of temperature and activator solution molarity on the viscosity and hard structure formation of geopolymer pastes. Construction and Building Materials, 2021, 272, 121661. | 3.2 | 6 |
| 653 | A Bayesian machine learning approach for inverse prediction of high-performance concrete ingredients with targeted performance. Construction and Building Materials, 2021, 270, 121424. | 3.2 | 32 |
| 654 | Performance of eco-friendly mortars made with alkali-activated slag and glass powder as a binder. Construction and Building Materials, 2021, 270, 121457. | 3.2 | 25 |
| 655 | The long-term failure mechanisms of alkali-activated slag mortar exposed to wet-dry cycles of sodium sulphate. Cement and Concrete Composites, 2021, 116, 103893. | 4.6 | 26 |
| 656 | Evaluation of alkalinity changes and carbonation of geopolymer concrete exposed to wetting and drying. Journal of Building Engineering, 2021, 35, 102029. | 1.6 | 18 |
| 657 | Influence of water activity on belite (Î²â€C 2 S) hydration. Journal of the American Ceramic Society, 2021, 104, 1831-1840. | 1.9 | 8 |
| 658 | Effect of Na2O concentration and water/binder ratio on carbonation of alkali-activated slag/fly ash cements. Construction and Building Materials, 2021, 269, 121258. | 3.2 | 49 |
| 659 | Performance evaluation of calcium sulfoaluminate as an alternative stabilizer for treatment of weaker subgrades. Transportation Geotechnics, 2021, 27, 100462. | 2.0 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 660 | Factors Affecting Kinetics and Gel Composition of Alkaliâ€“Silica Reaction in Alkali-Activated Slag Mortars. International Journal of Civil Engineering, 2021, 19, 453-462. | 0.9 | 3 |
| 661 | A Mathematical Correlation of Compressive Strength Among Silica, Alumina and Calcia Present in Composite Red Mud and Iron Ore Tailingbricks. Lecture Notes in Civil Engineering, 2021, , 313-327. | 0.3 | 2 |
| 662 | Development of Eco-Friendly Cement Using a Calcium Sulfoaluminate Expansive Agent Blended with Slag and Silica Fume. Applied Sciences (Switzerland), 2021, 11, 394. | 1.3 | 10 |
| 663 | Strength effect of alkali activated red mud slag cement in ambient condition. Materials Today: Proceedings, 2021, 44, 1437-1443. | 0.9 | 8 |
| 665 | Using fine aggregate matrix mortars to predict the curing behaviour of cement bitumen treated materials produced with different cements. Construction and Building Materials, 2021, 268, 121201. | 3.2 | 13 |
| 666 | Effect of Flue Gas Desulfurization Gypsum on the Properties of Calcium Sulfoaluminate Cement Blended with Ground Granulated Blast Furnace Slag. Materials, 2021, 14, 382. | 1.3 | 18 |
| 667 | Effect of curing regime on the performance and microstructure characteristics of alkali-activated slag-fly ash blended concrete. Journal of Sustainable Cement-Based Materials, 2021, 10, 289-317. | 1.7 | 30 |
| 668 | Use of Potabilized Water Sludge in the Production of Low-Energy Blended Calcium Sulfoaluminate Cements. Applied Sciences (Switzerland), 2021, 11, 1679. | 1.3 | 4 |
| 669 | Mechanical Behavior and Frost-Resistance of Alkali-Activated Cement Concrete with Blended Binder at Ambient Curing Condition. Buildings, 2021, 11, 52. | 1.4 | 8 |
| 670 | Effect of calcium hydroxide on the alkali-silica reaction of alkali-activated slag mortars activated by sodium hydroxide. Construction and Building Materials, 2021, 272, 121868. | 3.2 | 31 |
| 671 | Machine learning enables prompt prediction of hydration kinetics of multicomponent cementitious systems. Scientific Reports, 2021, 11, 3922. | 1.6 | 23 |
| 672 | Evaluation of compressive and split tensile strength of slag based aluminosilicate geopolymer reinforced by waste polymeric materials using Taguchi method. Materials Research Express, 2021, 8, 025504. | 0.8 | 11 |
| 673 | Insight Into the Strengthening Mechanism of the Al-Induced Cross-Linked Calcium Aluminosilicate Hydrate Gel: A Molecular Dynamics Study. Frontiers in Materials, 2021, 7, . | 1.2 | 7 |
| 674 | Development of low-carbon masonry grout mixtures using alkali-activated binder. Magazine of Concrete Research, 2022, 74, 154-161. | 0.9 | 3 |
| 675 | Strength Performance and Microstructure of Calcium Sulfoaluminate Cement-Stabilized Soft Soil. Sustainability, 2021, 13, 2295. | 1.6 | 9 |
| 676 | Thermal properties of calcium sulfoaluminate cement-based mortars incorporated with expanded perlite cured at cold temperatures. Construction and Building Materials, 2021, 274, 122082. | 3.2 | 20 |
| 677 | Recent advances in molecular dynamics simulation of the N-A-S-H geopolymer system: modeling, structural analysis, and dynamics. Construction and Building Materials, 2021, 276, 122196. | 3.2 | 41 |
| 678 | Effect of Alkali Concentration on Strength Development in Jointly Activated Pond Ash-GGBFS Mixtures through Geopolymeric Reactions. KSCE Journal of Civil Engineering, 2021, 25, 1600-1608. | 0.9 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 679 | Effect of different lithological stone powders on properties of cementitious materials. Journal of Cleaner Production, 2021, 289, 125820. | 4.6 | 15 |
| 680 | Effectiveness and microstructure change of alkali-activated materials during accelerated carbonation curing. Construction and Building Materials, 2021, 274, 122063. | 3.2 | 14 |
| 681 | Sustainable utilization of ultrafine rice husk ash in alkali activated concrete: Characterization and performance evaluation. Journal of Sustainable Cement-Based Materials, 2022, 11, 100-112. | 1.7 | 19 |
| 682 | Performance and sustainability overview of sodium carbonate activated slag materials cured at ambient temperature. Resources, Environment and Sustainability, 2021, 3, 100016. | 2.9 | 17 |
| 683 | Effect of metakaolin on the autogenous shrinkage of alkali-activated slag-fly ash paste. Construction and Building Materials, 2021, 278, 122397. | 3.2 | 27 |
| 684 | Research status of super sulfate cement. Journal of Cleaner Production, 2021, 294, 126228. | 4.6 | 48 |
| 685 | Hydration characteristics assessment of a binary calcium sulfoaluminate-anhydrite cement related with environment temperature. Journal of Thermal Analysis and Calorimetry, 2022, 147, 3053-3061. | 2.0 | 6 |
| 686 | Comparative study of stabilization/solidification of dredged sediments with ordinary Portland cement and calcium sulfo-aluminate cement in the framework of valorization in road construction material. Construction and Building Materials, 2021, 279, 122447. | 3.2 | 48 |
| 687 | Influence of exposure conditions on expansion characteristics of lime-rich calcium sulfoaluminate-belite blended cement. Cement and Concrete Composites, 2021, 118, 103932. | 4.6 | 9 |
| 688 | Mechanical property and microstructure of quaternary phase paste blended with metakaolin. Cement and Concrete Composites, 2021, 118, 103934. | 4.6 | 14 |
| 689 | Research on the Micro-Pore Structures of AAFAM. Arabian Journal for Science and Engineering, 2021, 46, 10885-10900. | 1.7 | 3 |
| 690 | Performance and Durability of Rendering and Basecoat Mortars for ETICS with CSA and Portland Cement. Infrastructures, 2021, 6, 60. | 1.4 | 3 |
| 691 | Setting Time and Strength Monitoring of Alkali-Activated Cement Mixtures by Ultrasonic Testing. Materials, 2021, 14, 1889. | 1.3 | 16 |
| 692 | Crack Self-Healing in NaOH-Activated Slag-Based Composites Incorporating Calcium Hydroxide. Journal of Materials in Civil Engineering, 2021, 33, . | 1.3 | 5 |
| 693 | Fabrication of sustainable magnesium phosphate cement micromortar using design of experiments statistical modelling: Valorization of ceramic-stone-porcelain containing waste as filler. Ceramics International, 2021, 47, 10905-10917. | 2.3 | 10 |
| 694 | Waste-derived activators for alkali-activated materials: A review. Cement and Concrete Composites, 2021, 118, 103980. | 4.6 | 62 |
| 695 | Silica-modifying chemical admixtures for directed zeolitization of metakaolin-based alkali-activated materials. Cement and Concrete Research, 2021, 142, 106348. | 4.6 | 5 |
| 696 | Investigation on the performance of hydroxyethyl methyl cellulose modified cement mortars with Portland cement-calcium sulfoaluminate cement binders. Construction and Building Materials, 2021, 283, 122721. | 3.2 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 697 | Advances in Understanding the Alkali-Activated Metallurgical Slag. Advances in Civil Engineering, 2021, 2021, 1-16. | 0.4 | 2 |
| 698 | Properties of modified engineered geopolymer composites incorporating multi-walled carbon Nanotubes(MWCNTs) and granulated blast furnace Slag(GBFS). Ceramics International, 2021, 47, 14244-14259. | 2.3 | 24 |
| 699 | Microstructural evolution and carbonation behavior of lime-slag binary binders. Cement and Concrete Composites, 2021, 119, 104000. | 4.6 | 21 |
| 700 | Effects of nanosilica on the hydration and hardening properties of slag cement. Construction and Building Materials, 2021, 282, 122705. | 3.2 | 17 |
| 701 | A review on alternative binders, admixtures and water for the production of sustainable concrete. Journal of Cleaner Production, 2021, 295, 126408. | 4.6 | 30 |
| 702 | A review on the contemporary innovations & advancements in the field of green concrete. IOP Conference Series: Earth and Environmental Science, 2021, 796, 012002. | 0.2 | 0 |
| 703 | Influence of conventional and functionalized carbon nanotubes in hybrid alkaline pastes with fly ash that contain high amounts of SO4. Construction and Building Materials, 2021, 286, 122950. | 3.2 | 3 |
| 704 | Recycling of fine-asphalt-pavement solid waste for low-shrinkage rapid hardening Portland cement concrete pavement. Construction and Building Materials, 2021, 289, 123132. | 3.2 | 13 |
| 705 | Effects of sodium gluconate on hydration reaction, setting, workability, and strength development of calcium sulfoaluminate belite cement mixtures. Journal of Sustainable Cement-Based Materials, 2022, 11, 273-285. | 1.7 | 7 |
| 706 | Effects of CaF2-CuO additives and various firing temperatures on characteristics of alite calcium sulfoaluminate clinkers. Case Studies in Construction Materials, 2021, 14, e00493. | 0.8 | 1 |
| 707 | Influence of Polyvinyl Alcohol Powder on the Mechanical Performance and Volume Stability of Sulfoaluminateâ€“Portland Cement Composite. Crystals, 2021, 11, 692. | 1.0 | 2 |
| 708 | Effect of bio-mineralization on concrete performance: Carbonation, microhardness, gas permeability and Cl- migration. Biochemical Engineering Journal, 2021, 171, 108024. | 1.8 | 9 |
| 709 | Chemical and physical effects of high-volume limestone powder on sodium silicate-activated slag cement (AASC). Construction and Building Materials, 2021, 292, 123257. | 3.2 | 31 |
| 710 | Effect of Gypsum Content on CSAB Cement-Based Immobilization of Se and SO <sub>4</sub> from Industrial Filter Sludge and Sodiumâ€“Selenium Salts. Journal of Hazardous, Toxic, and Radioactive Waste, 2021, 25, . | 1.2 | 1 |
| 711 | Experimental and Informational Modeling Study of Sustainable Self-Compacting Geopolymer Concrete. Sustainability, 2021, 13, 7444. | 1.6 | 16 |
| 712 | A comparative study on the mechanical properties, autogenous shrinkage and cracking proneness of alkali-activated concrete and ordinary Portland cement concrete. Construction and Building Materials, 2021, 292, 123418. | 3.2 | 25 |
| 713 | Clinkerless ultra-high strength concrete based on alkali-activated slag at high temperatures. Cement and Concrete Research, 2021, 145, 106465. | 4.6 | 75 |
| 714 | Exploiting advantages of empirical and optimization approaches to design alkali activated materials in a more efficient way. Construction and Building Materials, 2021, 292, 123460. | 3.2 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 715 | Evaluation of the influence of accelerated carbonation on the microstructure and mechanical characteristics of coconut fibre-reinforced cementitious matrix. Journal of Building Engineering, 2021, 39, 102269. | 1.6 | 9 |
| 716 | MECHANICAL PROPERTIES OF MODIFIED SUPERSULFATED CEMENT MORTAR. Ceramics - Silikaty, 2021, , 255-262. | 0.2 | 1 |
| 717 | Coupling machine learning with thermodynamic modelling to develop a composition-property model for alkali-activated materials. Composites Part B: Engineering, 2021, 216, 108801. | 5.9 | 29 |
| 718 | Predicting concrete compressive strength using hybrid ensembling of surrogate machine learning models. Cement and Concrete Research, 2021, 145, 106449. | 4.6 | 235 |
| 719 | Acoustic emission behavior of polyvinyl alcohol (PVA) fiber reinforced calcium sulphoaluminate cement mortar under flexural load. Journal of Building Engineering, 2021, 40, 102734. | 1.6 | 7 |
| 720 | Landfilled coal ash for carbon dioxide capture and its potential as a geopolymer binder for hazardous waste remediation. Journal of Environmental Chemical Engineering, 2021, 9, 105385. | 3.3 | 12 |
| 721 | Synthesis and Formation Process of a Typical Doped Solid-Solution Yeâ€™elimite (Ca3.8Na0.2Al5.6Fe0.2Si0.2SO16): Experiments and Kinetic Analysis. Applied Sciences (Switzerland), 2021, 11, 8015. | 1.3 | 1 |
| 722 | Ettringite instability analysis in the hydration process of the supersulfated cement. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6631-6642. | 2.0 | 5 |
| 723 | Alkali-Activation of Synthetic Aluminosilicate Glass With Basaltic Composition. Frontiers in Chemistry, 2021, 9, 715052. | 1.8 | 3 |
| 724 | Geopolymers vs. Cement Matrix Materials: How Nanofiller Can Help a Sustainability Approach for Smart Construction Applicationsâ€”A Review. Nanomaterials, 2021, 11, 2007. | 1.9 | 27 |
| 725 | Microstructure Control of AH<sub>3</sub> Gel Formed in Various Calcium Sulfoaluminate Cements as a Function of pH. ACS Sustainable Chemistry and Engineering, 2021, 9, 11534-11547. | 3.2 | 7 |
| 726 | Amino acids as performance-controlling additives in carbonation-activated cementitious materials. Cement and Concrete Research, 2021, 147, 106501. | 4.6 | 38 |
| 727 | Solidification of chromium-containing sludge with attapulgite combined alkali slag. Environmental Science and Pollution Research, 2022, 29, 13580-13591. | 2.7 | 7 |
| 728 | A novel titania/graphene composite applied in reinforcing microstructural and mechanical properties of alkali-activated slag. Journal of Building Engineering, 2021, 41, 102386. | 1.6 | 13 |
| 729 | Rheology of Alkali-Activated Blended Binder Mixtures. Materials, 2021, 14, 5405. | 1.3 | 5 |
| 730 | Activator Anion Influences the Nanostructure of Alkali-Activated Slag Cements. Journal of Physical Chemistry C, 2021, 125, 20727-20739. | 1.5 | 23 |
| 731 | Roles of chlorine and sulphate in MSWIFA in GGBFS binder: Hydration, mechanical properties and stabilization considerations. Environmental Pollution, 2021, 284, 117175. | 3.7 | 35 |
| 732 | Influence of polycarboxylate superplasticizer, citric acid and their combination on the hydration and workability of calcium sulfoaluminate cement. Cement and Concrete Research, 2021, 147, 106513. | 4.6 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 733 | An Innovative Method for Sustainable Utilization of Blast-Furnace Slag in the Cleaner Production of One-Part Hybrid Cement Mortar. Materials, 2021, 14, 5669. | 1.3 | 7 |
| 734 | Effect of superabsorbent polymers and expansive additives on the shrinkage of alkali-activated slag. Cement and Concrete Composites, 2021, 123, 104218. | 4.6 | 36 |
| 735 | Adsorption and dispersion capability of polycarboxylate-based superplasticizers: a review. Journal of Sustainable Cement-Based Materials, 2022, 11, 319-344. | 1.7 | 9 |
| 736 | An insight on the effect of sodium and silicon on microstructure and crystallography of high alumina cements. Cement and Concrete Research, 2021, 148, 106533. | 4.6 | 6 |
| 737 | Effects of cyclic seawater exposure on the mechanical performance and chloride penetration of calcium sulfoaluminate concrete. Construction and Building Materials, 2021, 303, 124139. | 3.2 | 23 |
| 738 | Rheo-viscoelastic behavior and viscosity prediction of calcium sulphoaluminate modified Portland cement pastes. Powder Technology, 2021, 391, 344-352. | 2.1 | 4 |
| 739 | Phase changes during various treatment processes for incineration bottom ash from municipal solid wastes: A review in the application-environment nexus. Environmental Pollution, 2021, 287, 117618. | 3.7 | 15 |
| 740 | Tartaric acid effects on hydration development and physico-mechanical properties of blended calcium sulphoaluminate cements. Cement and Concrete Composites, 2021, 124, 104275. | 4.6 | 22 |
| 741 | Intrinsic self-stressing and low carbon Engineered Cementitious Composites (ECC) for improved sustainability. Cement and Concrete Research, 2021, 149, 106580. | 4.6 | 26 |
| 742 | Supersulfated cements based on pumice with quicklime, anhydrite and hemihydrate: Characterization and environmental impact. Cement and Concrete Composites, 2021, 124, 104236. | 4.6 | 28 |
| 743 | The crystal structure of Na2CaAl4O8 and its hydration behaviour. Journal of Solid State Chemistry, 2021, 303, 122478. | 1.4 | 2 |
| 744 | Effect of calcium sulfoaluminate cements composition on their durability. Construction and Building Materials, 2021, 307, 124952. | 3.2 | 15 |
| 745 | Mechanical properties of high ductile alkali-activated fiber reinforced composites with different curing ages. Construction and Building Materials, 2021, 306, 124833. | 3.2 | 27 |
| 746 | Investigation of the mechanical and durability properties of sustainable high performance concrete based on calcium sulfoaluminate cement. Journal of Building Engineering, 2021, 43, 102656. | 1.6 | 20 |
| 747 | Production of Portland cement clinker from French Municipal Solid Waste Incineration Bottom Ash. Case Studies in Construction Materials, 2021, 15, e00629. | 0.8 | 14 |
| 748 | Nanostructural evolution of Al(OH)3 gel formed by the cubic and orthorhombic ye'elimite clinkers of calcium sulfoaluminate cements in an ultra-wide hydration temperature range. Cement and Concrete Research, 2021, 150, 106607. | 4.6 | 20 |
| 749 | Continuous optical in-situ pH monitoring during early hydration of cementitious materials. Cement and Concrete Research, 2021, 150, 106584. | 4.6 | 16 |
| 750 | Modification of Cement Composites with Hydrothermal Nano-SiO2. Journal of Materials in Civil Engineering, 2021, 33, 04021339. | 1.3 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 751 | Valorization of phosphogypsum in cement-based materials: Limits and potential in eco-efficient construction. Journal of Building Engineering, 2021, 44, 102506. | 1.6 | 30 |
| 752 | Mechanical properties of porcelain waste alkali-activated mortar. Open Ceramics, 2021, 8, 100184. | 1.0 | 1 |
| 753 | Utilization of Biochar as a Multifunctional Additive in Cement-Based Materials. RILEM Bookseries, 2021, , 343-353. | 0.2 | 2 |
| 754 | Sustainable Concretes for Structural Applications. Research for Development, 2020, , 249-261. | 0.2 | 1 |
| 755 | Sustainable Recycling Technologies for Bauxite Residue (Red Mud) Utilization. , 2015, , 173-179. | | 1 |
| 756 | Historical Aspects and Overview. RILEM State-of-the-Art Reports, 2014, , 11-57. | 0.3 | 18 |
| 757 | Binder Chemistry â€“ High-Calcium Alkali-Activated Materials. RILEM State-of-the-Art Reports, 2014, , 59-91. | 0.3 | 41 |
| 758 | Synergic Effects of Activation Routes of Ground Granulated Blast-Furnace Slag (GGBS) Used in the Precast Industry. Lecture Notes in Civil Engineering, 2018, , 588-597. | 0.3 | 2 |
| 759 | Use of Recycled Aggregate as Alkali Activator to Enhance Strength Development in High-Volume Blast-Furnace Slag Concrete. KSCE Journal of Civil Engineering, 2020, 24, 902-912. | 0.9 | 9 |
| 760 | The potential use of lightweight cellular concrete in pavement application: a review. International Journal of Pavement Research and Technology, 2020, 13, 686-696. | 1.3 | 15 |
| 761 | Hydration kinetics and products of MgO-activated blast furnace slag. Construction and Building Materials, 2020, 249, 118700. | 3.2 | 46 |
| 762 | Natural carbonation-induced phase and molecular evolution of alkali-activated slag: Effect of activator composition and curing temperature. Construction and Building Materials, 2020, 248, 118726. | 3.2 | 34 |
| 763 | Application areas of phosphogypsum in production of mineral binders and composites based on them: a review of research results. MATEC Web of Conferences, 2018, 149, 01012. | 0.1 | 5 |
| 764 | Highâ€Resolution <scp>X</scp>â€ray Diffraction and Fluorescence Microscopy Characterization of Alkaliâ€Activated Slagâ€Metakaolin Binders. Journal of the American Ceramic Society, 2013, 96, 1951-1957. | 1.9 | 79 |
| 765 | THE PREPARATION AND COMPOSITION ANALYSIS OF ALITE-YE'ELIMITE WITH INDUSTRIAL WASTES. Ceramics - Silikaty, 2016, , 179-187. | 0.2 | 5 |
| 766 | PERFORMANCE OF SILICA-NANO-PARTICLES ON THE PHYSICOCHEMICAL, AND MICROSCOPIC CHARACTERISTICS OF BLENDED AND COMPOSITE CEMENT. Ceramics - Silikaty, 2020, , 320-337. | 0.2 | 3 |
| 767 | Interfacial Transition Zone of Alkali-Activated Slag Concrete. ACI Materials Journal, 2017, 114, . | 0.3 | 2 |
| 768 | Development of Ground-Granulated Blast-Furnace Slag-Dolomite Geopolymer Concrete. ACI Materials Journal, 2019, 116, . | 0.3 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 769 | Effects of Vinyl Acetate-Ethylene Emulsion on Setting Time and Mechanical Properties of Alkali-Activated Cementitious Materials. ACI Materials Journal, 2020, 117, . | 0.3 | 1 |
| 770 | Influence of various additives on the early age compressive strength of sodium carbonate activated slag composites: An overview. Journal of the Mechanical Behavior of Materials, 2020, 29, 106-113. | 0.7 | 13 |
| 771 | Stabilizing Very High Moisture Content Fine Grained Soils with Calcium Sulfoaluminate Cements. Advances in Civil Engineering Materials, 2017, 6, 412-428. | 0.2 | 4 |
| 772 | Internal Curing to Mitigate Cracking in Rapid Set Repair Media. Advances in Civil Engineering Materials, 2018, 7, 660-671. | 0.2 | 2 |
| 773 | Behavior of Specialty Binders Mixed with Seawater. Advances in Civil Engineering Materials, 2019, 8, 20180107. | 0.2 | 6 |
| 774 | A Nondestructive EIS Method to Evaluate the Compressive Strength of Slag-Blended Cement Paste under Steam Curing. Journal of Testing and Evaluation, 2020, 48, 4104-4115. | 0.4 | 3 |
| 775 | Activated Class C Fly Ash Cement. , 2013, , 108-118. | | 2 |
| 776 | Alkali-activated Binders and Concretes: The Path to Standardization. , 2013, , 185-195. | | 3 |
| 777 | Development, Standardization, and Applications of Alkali-activated Concretes. , 2013, , 196-212. | | 9 |
| 778 | Selected Studies of the Durability of Fly-Ash-Based Geopolymer Concretes. , 2013, , 144-164. | | 4 |
| 779 | Alkali Activated Binders Based on Metakaolin. Environment Technology Resources Proceedings of the International Scientific and Practical Conference, 0, 1, 200. | 0.0 | 2 |
| 780 | Empirical Relationships on Mechanical Properties of Class-F Fly Ash and GGBS Based Geopolymer Concrete. Annales De Chimie: Science Des Materiaux, 2019, 43, 189-197. | 0.2 | 14 |
| 781 | Performance of a Fly Ash Geopolymeric Based Binder with Calcium Hydroxide, Portland Cement and Metakaolin as Additives. Open Civil Engineering Journal, 2018, 12, 167-186. | 0.4 | 3 |
| 782 | Phase equilibria in the system Ca4Al6O12SO4 â€“ Ca2SiO4 â€“ CaSO4 â€“ H2O referring to the hydration of calcium sulfoaluminate cements. RILEM Technical Letters, 0, 1, 10-16. | 0.0 | 74 |
| 783 | Recent update on the environmental impact of geopolymers. RILEM Technical Letters, 0, 1, 17-23. | 0.0 | 219 |
| 784 | 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 |
| 785 | Application of a clay-slag geopolymer matrix for repairing damaged concrete: Laboratory and industrial-scale experiments. Materialpruefung/Materials Testing, 2017, 59, 929-937. | 0.8 | 6 |
| 786 | Chloride Resistance of Blended Ash Geopolymer Concrete. Journal of Civil Engineering Science and Technology, 2016, 6, 23-33. | 0.5 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 787 | Insights on Substitution Preference of Pb Ions in Sulfoaluminate Cement Clinker Phases. Materials, 2021, 14, 44. | 1.3 | 10 |
| 788 | Fly Ash Based Geopolymer Concrete: A Review. , 2013, , . | | 5 |
| 789 | Ceniza de cascarilla de arroz como fuente de sÃ‡lice en sistemas cementicios de ceniza volante y escoria activados alcalinamente. Materiales De Construccion, 2013, 63, 361-375. | 0.2 | 49 |
| 790 | Effect of citric acid and the hemihydrate amount on the properties of a calcium sulphoaluminate cement. Materiales De Construccion, 2014, 64, e036. | 0.2 | 24 |
| 791 | Effect of the strontium aluminate and hemihydrate contents on the properties of a calcium sulphoaluminate based cement. Materiales De Construccion, 2014, 64, e024. | 0.2 | 2 |
| 792 | Performance at high temperature of alkali-activated slag pastes produced with silica fume and rice husk ash based activators. Materiales De Construccion, 2015, 65, e049. | 0.2 | 60 |
| 793 | Strength Development of Alkali-Activated Fly Ash Exposed to a Carbon Dioxide-Rich Environment at an Early Age. Journal of the Korean Ceramic Society, 2016, 53, 18-23. | 1.1 | 9 |
| 794 | Formulating for Innovative Self-Compacting Concrete with Low Energy Super-Sulfated Cement Used for Sustainability Development. Journal of Materials Science and Chemical Engineering, 2016, 04, 22-28. | 0.2 | 4 |
| 795 | Hydration of High-volume GGBFS Cement with Anhydrite and Sodium Sulfate. Journal of the Korea Concrete Institute, 2015, 27, 177-184. | 0.1 | 4 |
| 796 | Alternative binders for concrete: opportunities and challenges. , 2019, , . | | 1 |
| 797 | Investigation of fresh and hardened properties of Calcium sulfoaluminate (CSA) cement blends. Magazine of Civil Engineering, 2014, 47, 63-70. | 1.9 | 3 |
| 799 | Mechanical and Microstructural Characterization of Alkali-Activated Materials Based on Fly Ash and Slag. International Journal of Engineering and Technology, 2015, 7, 59-64. | 0.1 | 21 |
| 800 | Behaviour of Bamboo Leaf Ash Blended Cement Concrete in Sulphates Environment. IOSR Journal of Engineering, 2014, 4, 01-08. | 0.1 | 6 |
| 801 | XRD and combined SEM-EDS analysis of long-term hydration products of ye'elimite. Materials Chemistry and Physics, 2022, 276, 125373. | 2.0 | 5 |
| 802 | Optimization of Alkali-Activated Municipal Slag Composite Performance by Substituting Varying Ratios of Fly Ash for Fine Aggregate. Materials, 2021, 14, 6299. | 1.3 | 5 |
| 803 | Phosphorus Substitution Preference in Yeâ€™elimite: Experiments and Density Functional Theory Simulations. Materials, 2021, 14, 5874. | 1.3 | 3 |
| 804 | Experimental test and finite element modelling prediction on geopolymer concrete beams subject to flexural loading. Innovative Infrastructure Solutions, 2022, 7, 1. | 1.1 | 4 |
| 805 | Design of High Volume CFBC Fly Ash Based Calcium Sulphoaluminate Type Binder in Mixtures with Ordinary Portland Cement. Materials, 2021, 14, 5798. | 1.3 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 806 | Experimental Optimization of GGBS Fly Ash-Based Geopolymer Concrete Paver Blocks. Lecture Notes in Civil Engineering, 2022, , 153-161. | 0.3 | 2 |
| 807 | Mechanical properties and mechanism of nano-CaCO3 enhanced sulphoaluminate cement-based reactive powder concrete. Construction and Building Materials, 2021, 309, 125099. | 3.2 | 52 |
| 808 | Potential applications of geopolymer concrete in construction: A review. Case Studies in Construction Materials, 2021, 15, e00733. | 0.8 | 79 |
| 809 | Sorptivity Ratio and Compressive Strength of Alkali-Activated Blast Furnace Slag Paste. Advances in Civil Engineering Materials, 2014, 3, 238-255. | 0.2 | 0 |
| 810 | Gaps in Material Specificationsâ€"A Manufacturer's Perspective. Advances in Civil Engineering Materials, 2015, 4, 38-61. | 0.2 | 0 |
| 811 | Alumina. , 2015, , 1-4. | | 0 |
| 813 | Durability of Alkali-Activated Blast Furnace Slag Concrete: Chloride Ions Diffusion. Journal of the Korean Society of Safety, 2015, 30, 120-127. | 0.0 | 4 |
| 814 | Strength and Water Resistance of Low-Grade Fly Ash Incorporated Magnesia-Phosphate Cement Based Materials. , 2016, , . | | 0 |
| 815 | Reduction of CO2 Emissions by Chemical Synthesis Processes in the Cement Industry. , 2016, , 5-12. | | 1 |
| 816 | Proportioning mineral admixture-incorporated concretes. , 2016, , 222-239. | | 0 |
| 817 | Use of mineral admixtures in special concretes. , 2016, , 254-281. | | 0 |
| 818 | Znaczenie uwalniania cynku, miedzi i oÅ‚owiu z Å¼uÅ¼la szybowego w kontekÅ›cie jego stosowania w drogownictwie. MateriaÅy Budowlane, 2016, 1, 57-59. | 0.0 | 0 |
| 820 | State of Knowledge on Green Concrete with Recycled Aggregates and Cement Replacement. Research for Development, 2017, , 3-27. | 0.2 | 1 |
| 821 | Effect of Particle Packing and Fly Ash on Performance of Ordinary Portland Cement/Anhydrite-Activated Ground-Granulated Blast-Furnace Slag. ACI Materials Journal, 2017, 114, . | 0.3 | 1 |
| 822 | Evaluation of Compressive Strength and Microstructure of Cement Pastes Containing Different Qualities of Metakaolin. RILEM Bookseries, 2018, , 147-154. | 0.2 | 0 |
| 823 | Effects of Impure Water Sources on the Early-Age Properties of Calcium Sulfoaluminate (CSA) Cement. Advances in Civil Engineering Materials, 2019, 8, 20180115. | 0.2 | 1 |
| 824 | Transport and Durability Properties of Alkali-Activated Natural Pozzolan/Slag Concrete. ACI Materials Journal, 2019, 116, . | 0.3 | 4 |
| 825 | The Effect of Calcium Sulfoaluminate Cement on the Engineering Properties of High Performance Concretes with and Without Fibers. Lecture Notes in Civil Engineering, 2020, , 325-336. | 0.3 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 826 | AVALIAÃ‡ÃƒO DA UTILIZAÃ‡ÃƒO DE RESÃDUOS INCORPORADOS AO CLÃNQUER PORTLAND: REVISÃƒO SISTEMÃ‡TICA. , 0, , . | | 0 |
| 827 | Internal Curing Using Superabsorbent Polymers for Alkali Activated Slag-Fly Ash Mixtures. RILEM Bookseries, 2020, , 239-247. | 0.2 | 3 |
| 828 | Rice Husk Ash Derived Sodium Silicate Using Hydrothermal and Convection Heating Methods. Lecture Notes in Civil Engineering, 2020, , 629-646. | 0.3 | 2 |
| 830 | Comportamento do cimento supersulfatado (CSS) obtido a partir de escÃ³rias de alto forno geradas a carvÃ£o vegetal e mineral e sujeito Ã  cura tÃ©rmica. Revista Materia, 2020, 25, . | 0.1 | 0 |
| 832 | Strain-Hardening Ambient-Cured Eco-Friendly Ductile Geopolymer Composites. ACI Materials Journal, 2020, 117, . | 0.3 | 1 |
| 833 | Mechanical Properties, Resistance to Fire and Durability for Sulfate Ions of Alkali activated Cement made from Blast furnace Slag- Fine Metakaolin. Egyptian Journal of Chemistry, 2020, . | 0.1 | 0 |
| 834 | Effect of the Type of Binder on Thermal and Mechanical Properties of Mortar with Doum Palm Fiber. Lecture Notes in Mechanical Engineering, 2020, , 452-459. | 0.3 | 1 |
| 835 | FREEZE-THAW RESISTANCE OF BLAST FURNACE SLAG GEOPOLYMER MORTARS. Turkish Journal of Engineering, 0, , . | 0.7 | 0 |
| 836 | Development of a fast-hardening retarding high-early-strength concrete with low-alkalinity sulphoaluminate cement and practical application. Advances in Bridge Engineering, 2020, 1, . | 0.8 | 2 |
| 837 | Influence of Alkaline ratios on strength properties of Fly ash-Ground Granulated Blast Furnace Slag Based Geopolymer Mortars. IOP Conference Series: Materials Science and Engineering, 2020, 998, 012055. | 0.3 | 5 |
| 838 | The enhancement effect of Ca-bentonite on the working performance of red mud-slag based geopolymeric grout. Materials Chemistry and Physics, 2022, 276, 125311. | 2.0 | 11 |
| 840 | Mesoscale Mechanisms of Cement Hydration: BNG Model and Particle Simulations. , 2020, , 177-197. | | 0 |
| 841 | Bond Behavior of 0.6 in. Prestressing Strand in BSCA Cement Concrete. ACI Structural Journal, 2020, 117, . | 0.3 | 5 |
| 842 | Compressive Strength and Drying Shrinkage of Alkali-activated Fly Ash/Slag Mortars. International Journal of Structural and Civil Engineering Research, 2020, , 161-164. | 0.1 | 0 |
| 843 | Research Progress in Corrosion Mechanism of Reinforced Alkali-Activated Concrete Structures. Corrosion and Materials Degradation, 2021, 2, 641-656. | 1.0 | 1 |
| 844 | The influence of calcium sulfate content on the hydration of belite-calcium sulfoaluminate cements with different clinker phase compositions. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1. | 1.3 | 16 |
| 845 | Experimental study of the effect of graphene on properties of ambient-cured slag and fly ash-based geopolymer paste and mortar. Construction and Building Materials, 2021, 313, 125403. | 3.2 | 25 |
| 846 | Ternesite as a component of sulfobelitic cements. MATEC Web of Conferences, 2018, 149, 01011. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 847 | Experimental Investigation on Bond Strength Properties of Geopolymer Concrete. Lecture Notes in Civil Engineering, 2021, , 731-740. | 0.3 | 3 |
| 848 | Development of an energy-efficient technology for the production and study of clinker-free mineral binders based on blast furnace granulated slag with the addition of fly ash. Novye Ogneupory (new) Tj ETQq1 1 0.784314 rgBT /Overl | 0.4 | 3 |
| 849 | Manufacture of rich-sulfoaluminate belite cement at low temperature from waste mixture by dry and hydrothermal processes. Construction and Building Materials, 2022, 314, 125641. | 3.2 | 5 |
| 850 | Mechanical properties and hydration process of steel slag-cement binder containing nano-SiO2. Construction and Building Materials, 2022, 314, 125660. | 3.2 | 30 |
| 851 | Effect of Degradation on Mechanical Strengths of Alkali-Activated Fines in Stabilized Construction and Demolition Waste Aggregates. Journal of Materials in Civil Engineering, 2022, 34, . | 1.3 | 2 |
| 852 | Effect of bottom ash waste on the rheology and durability of alkali activation pastes. Case Studies in Construction Materials, 2022, 16, e00790. | 0.8 | 7 |
| 853 | Application of DOE method in evaluating for split tensile strength of slag-based boroaluminosilicate geopolymers reinforced with steel fibers. Journal of the Australian Ceramic Society, 2022, 58, 135-144. | 1.1 | 3 |
| 854 | External sulfate attack: comparison of several alternative binders. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1. | 1.3 | 7 |
| 855 | Hybrid Materials Based on Fly Ash, Metakaolin, and Cement for 3D Printing. Materials, 2021, 14, 6874. | 1.3 | 27 |
| 856 | The micro-structural character of limestone and its influence on the formation of phases in calcined products: natural hydraulic limes and cements. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1. | 1.3 | 4 |
| 857 | Thermal Properties of Calcium Sulphoaluminate Cement as an Alternative to Ordinary Portland Cement. Materials, 2021, 14, 7011. | 1.3 | 5 |
| 858 | Influence of Steel Slag-Superfine Blast Furnace Slag Composite Mineral Admixture on the Properties of Mortar and Concrete. Advances in Civil Engineering, 2021, 2021, 1-9. | 0.4 | 2 |
| 859 | Research on Compressive and Flexural Properties of Coal Gangue-Slag Geopolymer under Wetting-Drying Cycles and Analysis of Micro-Mechanism. Polymers, 2021, 13, 4160. | 2.0 | 2 |
| 860 | Effects of Using Different Co-binders and Fibers on Mechanical and Durability Performances of Alkali-Activated Soapstone Binders (AAS). Waste and Biomass Valorization, 2022, 13, 2375-2397. | 1.8 | 2 |
| 861 | Impacts of MgO waste:GGBS formulations on the performance of a stabilised natural high sulphate bearing soil. Construction and Building Materials, 2022, 315, 125745. | 3.2 | 9 |
| 862 | A Binder Prepared by Low-Reactivity Blast Furnace Slags for Cemented Paste Backfill: Influence of Super-Fine Fly Ash and Chemical Additives. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 863 | A review on the durability performance of alkali-activated binders subjected to chloride-bearing environment. Construction and Building Materials, 2022, 317, 125947. | 3.2 | 3 |
| 864 | Understanding the importance of carbonates on the performance of Portland metakaolin cement. Construction and Building Materials, 2022, 319, 126155. | 3.2 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 865 | Alkali activation of blast furnace slag using a carbonate-calcium carbide residue alkaline mixture to prepare cemented paste backfill. Construction and Building Materials, 2022, 320, 126234. | 3.2 | 29 |
| 866 | Thermo-chemo-mechanical characterization, modeling, and analysis of hydration of calcium-sulfoaluminate cement paste. Construction and Building Materials, 2022, 319, 125747. | 3.2 | 3 |
| 867 | Thermal degradation of potassium-activated ternary slag-fly ash-silica fume binders. Construction and Building Materials, 2022, 320, 126304. | 3.2 | 5 |
| 868 | Influence of metakaolin and limestone on chloride binding of slag activated by mixed magnesium oxide and sodium hydroxide. Cement and Concrete Composites, 2022, 127, 104397. | 4.6 | 23 |
| 869 | Fabrication of green one-part geopolymer from silica-rich vanadium tailing via thermal activation and modification. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 177-184. | 2.4 | 15 |
| 870 | Utilization of recycled aggregate in geopolymer concrete development: A case study. , 2022, , 343-354. | | 1 |
| 871 | Belite-Calcium Sulphoaluminate Cement Prepared by Emr and Bs: Hydration Characteristics and Microstructure Evolution Behavior. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 872 | Investigation on the influence of fine steel fiber and carbon fiber on the thermo-mechanical properties of cement-based thermal energy storage mortar. Composite Interfaces, 2022, 29, 713-727. | 1.3 | 1 |
| 873 | Recycling of arsenic-containing biohydrometallurgy waste to produce a binder for cemented paste backfill: Mix proportion optimization. Powder Technology, 2022, 398, 117155. | 2.1 | 14 |
| 874 | Effects and mechanisms of waste gypsum influencing the mechanical properties and durability of magnesium oxychloride cement. Journal of Cleaner Production, 2022, 339, 130679. | 4.6 | 17 |
| 875 | Effect of slags of different origins and the role of sulfur in slag on the hydration characteristics of cement-slag systems. Construction and Building Materials, 2022, 316, 125266. | 3.2 | 17 |
| 876 | Hydration mechanism of calcium sulfoaluminate-activated supersulfated cement. Journal of Cleaner Production, 2022, 333, 130094. | 4.6 | 21 |
| 877 | Chemistry-informed machine learning prediction of compressive strength for alkali-activated materials. Construction and Building Materials, 2022, 316, 126103. | 3.2 | 48 |
| 878 | Effect of Chemical Treatment on Silicon Manganese: Its Morphological, Elemental and Spectral Properties and Its Usage in Concrete. Silicon, 2022, 14, 8081-8096. | 1.8 | 2 |
| 879 | Effects of different curing conditions on the long-term properties of alkali activated GBPÂ+ÂGBFS mortars exposed to high temperatures. Construction and Building Materials, 2022, 321, 125732. | 3.2 | 7 |
| 880 | Recycling of waste cathode ray tube glass through fly ash-slag geopolymer mortar. Construction and Building Materials, 2022, 322, 126454. | 3.2 | 12 |
| 881 | Mechanical and chloride ions solidification performance of C4A3($,P) mineral as promising marine engineering material. Construction and Building Materials, 2022, 323, 126553. | 3.2 | 2 |
| 882 | Analysis of hydration products, hydration degree, and CO2 capture in â€œye'elimite â€“H2Oâ€•system by X-ray diffraction, combined SEM-EDS, and FTIR techniques. Journal of the Taiwan Institute of Chemical Engineers, 2022, 132, 104222. | 2.7 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 883 | Utilization of recycled fine powder as an activator in fly ash based geopolymer mortar. Construction and Building Materials, 2022, 323, 126581. | 3.2 | 20 |
| 884 | Time and spatially dependent transient competitive antagonism during the 2-D diffusion-reaction of combined chloride-sulphate attack upon concrete. Cement and Concrete Research, 2022, 154, 106724. | 4.6 | 11 |
| 885 | Pathways towards sustainable concrete. Cement and Concrete Research, 2022, 154, 106718. | 4.6 | 69 |
| 886 | A review on the porous geopolymer preparation for structural and functional materials applications. International Journal of Applied Ceramic Technology, 2022, 19, 1793-1813. | 1.1 | 23 |
| 887 | Clinkering design of sulfobelite cements using clay overburden residue from bauxite mining. Advances in Cement Research, 0, , 1-36. | 0.7 | 1 |
| 888 | Fracture response of wollastonite fiber-reinforced cementitious composites: Evaluation using micro-indentation and finite element simulation. Ceramics International, 2022, , . | 2.3 | 4 |
| 889 | Properties of Cementitious Repair Materials for Concrete Pavement. Advances in Materials Science and Engineering, 2022, 2022, 1-17. | 1.0 | 6 |
| 890 | Preparing a binder for cemented paste backfill using low-aluminum slag and hazardous oil shale residue and the heavy metals immobilization effects. Powder Technology, 2022, 399, 117167. | 2.1 | 30 |
| 891 | The impediment and promotion effects and mechanisms of lactates on the hydration of supersulfated cements - Aiming at a performance enhancement. Journal of Cleaner Production, 2022, 341, 130751. | 4.6 | 7 |
| 892 | The mechanical and structural properties of lunar regolith simulant based geopolymer under extreme temperature environment on the moon through experimental and simulation methods. Construction and Building Materials, 2022, 325, 126679. | 3.2 | 19 |
| 893 | Influence of the Type and Concentration of the Activator on the Microstructure of Alkali Activated Simn Slag Pastes. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 894 | Alkali-Activated Red Mud and Construction and Demolition Waste-Based Components: Characterization and Environmental Assessment. Materials, 2022, 15, 1617. | 1.3 | 17 |
| 895 | Polypropylene fiber reinforced concrete improved by using silica fume and acrylic emulsion polymer. Materiales De Construccion, 2022, 72, e269. | 0.2 | 1 |
| 896 | Effect of early strength anti-cracking materials on drying shrinkage of recycled cement stabilized macadam. International Journal of Pavement Engineering, 2023, 24, . | 2.2 | 3 |
| 897 | Engineering application of organic materials with concrete: A review. Materials Today: Proceedings, 2022, 56, 581-586. | 0.9 | 15 |
| 898 | Effect of mechanical activation on reaction mechanism of one-part preparation fly ash/slag-based geopolymer. Advances in Cement Research, 2022, 34, 412-426. | 0.7 | 3 |
| 899 | Phase Analysis of Alkali-Activated Slag Hybridized with Low-Calcium and High-Calcium Fly Ash. Sustainability, 2022, 14, 3767. | 1.6 | 2 |
| 900 | Formulation of Bogue Equations from Thermodynamic Modelling for Low-Carbon Dioxide Ferrite-Belite Clinkers. , 2022, 5, . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 901 | Method for quantifying the reaction degree of slag in alkaliâ€activated cements using deep learningâ€based electron microscopy image analysis. Journal of Microscopy, 2022, 286, 174-178. | 0.8 | 2 |
| 902 | Lightweight Cellular Concrete Properties and Geotechnical Applications. , 2022, , . | | 1 |
| 903 | Development of a calcium aluminate cement from steelmaking slag by altering its mineralogical composition. Advances in Cement Research, 0, , 1-10. | 0.7 | 1 |
| 904 | The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. Materials, 2022, 15, 2728. | 1.3 | 15 |
| 905 | Synergistic use of electrolytic manganese residue and barium slag to prepare belite- sulphoaluminate cement study. Construction and Building Materials, 2022, 326, 126672. | 3.2 | 28 |
| 906 | The Volume Stability of Alkali-Activated Electric Arc Furnace Ladle Slag Mortar and Its Performance at High Temperatures. Processes, 2022, 10, 700. | 1.3 | 0 |
| 907 | Study on the hydration product and embodied CO2 of NHL-mineral admixture system based on thermodynamic simulation and experiments. Journal of Cleaner Production, 2022, , 131641. | 4.6 | 0 |
| 908 | A binder prepared by low-reactivity blast furnace slags for cemented paste backfill: Influence of super-fine fly ash and chemical additives. Construction and Building Materials, 2022, 327, 126988. | 3.2 | 17 |
| 909 | Effect of the nanosilica source on the rheology and early-age hydration of calcium sulfoaluminate cement pastes. Construction and Building Materials, 2022, 327, 126942. | 3.2 | 10 |
| 910 | Physical properties, strength, and impurities stability of phosphogypsum-based cold-bonded aggregates. Construction and Building Materials, 2022, 331, 127307. | 3.2 | 31 |
| 911 | Ability of Hardened Paste of Cementitious Calciumâ€“Aluminophosphate Mineral to Bind with Chloride Ions. Journal of Materials in Civil Engineering, 2022, 34, . | 1.3 | 2 |
| 912 | High-Temperature Performance of Low-Calcium Fly Ashâ€“Based Geopolymers. Journal of Materials in Civil Engineering, 2022, 34, . | 1.3 | 3 |
| 913 | Creep of alkali-activated cement mixtures. Case Studies in Construction Materials, 2022, 16, e00954. | 0.8 | 1 |
| 914 | Performance criteria, environmental impact and cost assessment for 3D printable concrete mixtures. Resources, Conservation and Recycling, 2022, 181, 106255. | 5.3 | 19 |
| 915 | Multiscale Characterization of Fly Ashâ€“Based Geopolymer and Type V Portland Cement Exposed to MgSO4. Journal of Materials in Civil Engineering, 2022, 34, . | 1.3 | 3 |
| 916 | Control the early-stage hydration of expansive additive from calcium sulfoaluminate clinker by polymer encapsulation. Cement, 2022, 8, 100021. | 0.9 | 2 |
| 917 | Effect of Predrying Temperature on Carbonation of Alkali-Activated Slag Pastes. Journal of Materials in Civil Engineering, 2022, 34, . | 1.3 | 1 |
| 918 | Structural transition to well-ordered phases of NaOH-activated slag-metakaolin cements aged by 6Âyears. Cement and Concrete Research, 2022, 156, 106791. | 4.6 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 919 | Designing corrosion resistant systems with alternative cementitious materials. Cement, 2022, 8, 100029. | 0.9 | 2 |
| 920 | Influence of micro Fe2O3 and MgO on the physical and mechanical properties of the zeolite and kaolin based geopolymer mortar. Journal of Building Engineering, 2022, 52, 104443. | 1.6 | 16 |
| 921 | Experimental Evaluation of Tensile Performance of Aluminate Cement Composite Reinforced with Weft Knitted Fabrics as a Function of Curing Temperature. Polymers, 2021, 13, 4385. | 2.0 | 6 |
| 922 | Performance development of styrene-butadiene copolymer-modified calcium sulfoaluminate cement mortar under different curing conditions. Journal of Zhejiang University: Science A, 2021, 22, 1005-1026. | 1.3 | 3 |
| 923 | Reuse of Uncontrolled Burnt Bagasse Ash from Sugar Industries with Waste Rubber Powder in Construction: A Waste to Wealth Approach for Sugar Mills. Sugar Tech, 0, , 1. | 0.9 | 0 |
| 924 | Comparative Analysis of Heat Release, Bound Water Content and Compressive Strength of Alkali-Activated Slag-Fly Ash. Frontiers in Materials, 2022, 9, . | 1.2 | 3 |
| 925 | Hydration characteristics of coconut fibre-reinforced mortars containing CSA and Portland cement. Journal of Material Cycles and Waste Management, 0, , 1. | 1.6 | 2 |
| 926 | A review on soil stabilisation of unsealed road pavements from an Australian perspective. Road Materials and Pavement Design, 2023, 24, 1005-1049. | 2.0 | 2 |
| 927 | Hydration and Properties of Cement in the Belite-Yeâ€²elimite-Ternesite System. Materials, 2022, 15, 2792. | 1.3 | 2 |
| 928 | Belite-calcium sulphoaluminate cement prepared by EMR and BS: Hydration characteristics and microstructure evolution behavior. Construction and Building Materials, 2022, 333, 127415. | 3.2 | 10 |
| 929 | The effect of slag chemistry on the reactivity of synthetic and commercial slags. Construction and Building Materials, 2022, 335, 127493. | 3.2 | 15 |
| 930 | New Applications of Ordinary Portland and Calcium Sulfoaluminate Composite Binder for Recycling Dredged Marine Sediments as Road Materials. International Journal of Geomechanics, 2022, 22, . | 1.3 | 14 |
| 932 | Comparison of the CAC-containing and CAC-free hydraulic binders in term of the hydrated matrix formation within refractory castables designed for the fast drying procedure. Journal of Thermal Analysis and Calorimetry, 0, , 1. | 2.0 | 1 |
| 933 | Recycling of Tropical Natural Fibers in Building Materials. , 0, , . | | 2 |
| 934 | Comparative study on Phosphate-Powder as Partial-Replacement in conventional concrete and PrimeMaterials in GeopolymerConcrete. Materials Today: Proceedings, 2022, 65, 1348-1353. | 0.9 | 1 |
| 935 | A Multiscale and Multimethod Approach to Assess and Mitigate Concrete Damage Due to Alkaliâ€“Silica Reaction. Advanced Engineering Materials, 2022, 24, . | 1.6 | 4 |
| 936 | Characterisation of Recycled Quarzitic and Plastic Aggregates for Sustainable Lightweight Screeds. Key Engineering Materials, 0, 919, 28-34. | 0.4 | 0 |
| 937 | Synthesis of nanoparticles from slag and their enhancement effect on hydration properties of CaO/CaSO4-activated slag binder. Advanced Powder Technology, 2022, 33, 103586. | 2.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 938 | Waste clay from bauxite beneficiation to produce calcium sulphoaluminate eco-cements. Construction and Building Materials, 2022, 340, 127703. | 3.2 | 4 |
| 939 | Effects of different alumina carriers on the phase formation and mechanical properties of sulfoaluminate cement clinker. Advances in Cement Research, 2023, 35, 1-11. | 0.7 | 1 |
| 940 | The impact of carbonation at different CO2 concentrations on the microstructure of phosphogypsum-based supersulfated cement paste. Construction and Building Materials, 2022, 340, 127823. | 3.2 | 20 |
| 942 | Water-to-cement ratio of calcium sulfoaluminate belite cements: Hydration, setting time, and strength development. Cement, 2022, 8, 100032. | 0.9 | 15 |
| 943 | Rapid regeneration cement-stabilized macadam: Preparation, mechanical properties, and dry shrinkage performance. Construction and Building Materials, 2022, 341, 127901. | 3.2 | 5 |
| 944 | Effect of Seawater on Hydration and Sulfate Resistance of Noncement Mortars. Journal of Materials in Civil Engineering, 2022, 34, . | 1.3 | 0 |
| 945 | Fabrication and characterisation of 0â€“3 KNLNTS piezoelectric ceramic/alite calcium sulfoaluminate cement composites. Journal of Materials Research and Technology, 2022, 19, 1563-1577. | 2.6 | 2 |
| 946 | GGBS hydration acceleration evidence in supersulfated cement by nanoSiO2. Cement and Concrete Composites, 2022, 132, 104609. | 4.6 | 17 |
| 947 | Application of Iron Tailings-Based Composite Supplementary Cementitious Materials (SCMs) in Green Concrete. Materials, 2022, 15, 3866. | 1.3 | 2 |
| 948 | Assessment of mechanical and micro-structural characterization of novel ambient cured cement-free composite concrete. Ceramics International, 2022, 48, 26519-26538. | 2.3 | 6 |
| 949 | The Valorisation of Selected Quarry and Mine Waste for Sustainable Cement Production within the Concept of Circular Economy. Sustainability, 2022, 14, 6833. | 1.6 | 3 |
| 950 | EDS Microanalysis of Unhydrated Blast Furnace Slag Grains in Field Concrete with Different Service Life. Microscopy and Microanalysis, 2022, 28, 1493-1503. | 0.2 | 4 |
| 951 | Effects of cementitious stabilisers on performance and life cycle impacts of full-depth reclamation. Road Materials and Pavement Design, 0, , 1-18. | 2.0 | 1 |
| 952 | Modifications in hydration kinetics and characteristics of calcium aluminate cement upon blending with calcium sulfoaluminate cement. Construction and Building Materials, 2022, 342, 127958. | 3.2 | 12 |
| 953 | Recycling of arsenic-containing biohydrometallurgy waste to produce a binder for cemented paste backfill: Influence of additives. Journal of Cleaner Production, 2022, 363, 132515. | 4.6 | 4 |
| 954 | Pumice-based supersulfated cements in mortars: Effects of pumice fineness and activator ratio on physical and environmental characteristics. Construction and Building Materials, 2022, 342, 127947. | 3.2 | 8 |
| 955 | Stress-strain behavior of low-carbon concrete activated by soda residue-calcium carbide slag under uniaxial and triaxial compression. Journal of Building Engineering, 2022, 55, 104678. | 1.6 | 3 |
| 956 | Waste Management for Green Concrete Solutions: A Concise Critical Review. Recycling, 2022, 7, 37. | 2.3 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 957 | An Essential Study of Strength Development in Geopolymer Materials Using the JMAK Method. Arabian Journal for Science and Engineering, 2023, 48, 4295-4307. | 1.7 | 2 |
| 958 | Early Age Monitoring of High Cement Replacement Mixtures for Pavement. Transportation Research Record, 2023, 2677, 1646-1657. | 1.0 | 2 |
| 959 | Investigation of engineering properties of sun-dried bottom ash based eco clay blocks. Materials Today: Proceedings, 2022, , . | 0.9 | 1 |
| 960 | Utilization of APC residues from sewage sludge incineration process as activator of alkali-activated slag/glass powder material. Cement and Concrete Composites, 2022, 133, 104680. | 4.6 | 12 |
| 961 | Influence of the type and concentration of the activator on the microstructure of alkali activated SiMn slag pastes. Construction and Building Materials, 2022, 342, 128067. | 3.2 | 7 |
| 962 | Effect of graphene oxide or triethanolamine-modified graphene oxide on the hydration of calcium sulfoaluminate cement. Construction and Building Materials, 2022, 345, 128315. | 3.2 | 1 |
| 963 | Production, characteristics, and utilization of rice husk ash in alkali activated materials: An overview of fresh and hardened state properties. Construction and Building Materials, 2022, 345, 128341. | 3.2 | 35 |
| 964 | Characterization of one-part alkali-activated slag with rice straw ash. Construction and Building Materials, 2022, 345, 128403. | 3.2 | 10 |
| 965 | Mechanical and long-term durability prediction of GFRP rebars with the adoption of low-pH CSA concrete. Construction and Building Materials, 2022, 346, 128444. | 3.2 | 16 |
| 966 | Engineering and creep performances of green super-sulfated cement concretes using circulating fluidized bed combustion fly ash. Construction and Building Materials, 2022, 346, 128274. | 3.2 | 4 |
| 967 | Hydration, reinforcing mechanism, and macro performance of multi-layer graphene-modified cement composites. Journal of Building Engineering, 2022, 57, 104880. | 1.6 | 49 |
| 968 | Recycling of arsenic-containing biohydrometallurgy waste to produce a binder for cemented paste backfill: Co-treatment with oil shale residue. Journal of Environmental Management, 2022, 319, 115621. | 3.8 | 6 |
| 969 | Mechanics, hydration phase and pore development of embodied energy and carbon composites based on ultrahigh-volume low-carbon cement with limestone calcined clay. Case Studies in Construction Materials, 2022, 17, e01299. | 0.8 | 4 |
| 970 | Fire resistance characteristics of geopolymer concrete for environmental sustainability: a review of thermal, mechanical and microstructure properties. Environment, Development and Sustainability, 2023, 25, 8975-9010. | 2.7 | 7 |
| 971 | Influence of colloidal nanosilica on hydration kinetics and properties of CaO/CaSO4-activated slag binder. International Journal of Mining Science and Technology, 2022, 32, 1407-1418. | 4.6 | 5 |
| 972 | Potential reactivity assessment of mechanically activated kaolin as alternative cement precursor. Applied Clay Science, 2022, 228, 106648. | 2.6 | 15 |
| 973 | Maximize the use of municipal waste generated by the hydrogen peroxide industry in the production of high-quality refractory CAC. Scientific Reports, 2022, 12, . | 1.6 | 2 |
| 974 | A Study on the Properties of Geopolymer Concrete Modified with Nano Graphene Oxide. Buildings, 2022, 12, 1066. | 1.4 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 975 | Carbon-negative cement manufacturing from seawater-derived magnesium feedstocks. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 11 |
| 976 | Effects of Lithium Slag on the Frost Resistance of Cement-Soil. Materials, 2022, 15, 5531. | 1.3 | 4 |
| 977 | Development of Underwater Mortar Using Belitic Calcium Sulfoaluminate Cement. Advances in Civil Engineering Materials, 2022, 11, 398-409. | 0.2 | 0 |
| 978 | Quantifying the Workability of Calcium Sulfoaluminate Cement Paste Using Time-Dependent Rheology. Materials, 2022, 15, 5775. | 1.3 | 5 |
| 979 | CO2 storage in cement and concrete by mineral carbonation. Current Opinion in Green and Sustainable Chemistry, 2022, 38, 100672. | 3.2 | 27 |
| 980 | Durability aspects of blended concrete systems subjected to combined mechanical and environmental loading using piezo sensor. Construction and Building Materials, 2022, 348, 128613. | 3.2 | 10 |
| 981 | Using low-grade calcined clay to develop low-carbon and lightweight strain-hardening cement composites. Journal of Building Engineering, 2022, 58, 105023. | 1.6 | 7 |
| 982 | The effect of slag chemistry on CO2 binding capacity of C3S-slag (-gypsum) system. Construction and Building Materials, 2022, 354, 129208. | 3.2 | 2 |
| 983 | Role of the grain size on the hydration characteristics of slag in an aged field concrete. Cement and Concrete Research, 2022, 162, 106985. | 4.6 | 15 |
| 984 | Effects of sodium oxide content on the durability of alkali-activated mortar utilizing botswana copper mine tailings and fly ash. MATEC Web of Conferences, 2022, 364, 02010. | 0.1 | 0 |
| 985 | Effective Use of Biochar as an Additive for Alkali-Activated Slag Mortar Production. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 986 | Effects of K+ and CO32â^' on the performance of slagâ€"ceramic blended geopolymers. Polymer Testing, 2023, 117, 107816. | 2.3 | 3 |
| 987 | Demolition Waste Potential for Completely Cement-Free Binders. Materials, 2022, 15, 6018. | 1.3 | 16 |
| 988 | Improved Cementitious Tile Adhesivesâ€™ Workability and Mechanical Performance with the Use of Recycled Materials. Infrastructures, 2022, 7, 111. | 1.4 | 1 |
| 989 | Micro-Mechanical Properties of Slag Rim Formed in Cementâ€"Slag System Evaluated by Nanoindentation Combined with SEM. Materials, 2022, 15, 6347. | 1.3 | 7 |
| 990 | Coal Ash Enrichment with Its Full Use in Various Areas. Materials, 2022, 15, 6610. | 1.3 | 2 |
| 991 | Molecular Insights into the Reaction Process of Alkali-Activated Metakaolin by Sodium Hydroxide. Langmuir, 2022, 38, 11337-11345. | 1.6 | 5 |
| 992 | Activated carbon-cement composite coated polyurethane foam as a cost-efficient solar steam generator. Journal of Cleaner Production, 2022, 379, 134302. | 4.6 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 993 | Study on the flexural properties and fiberâ€selection method of fiberâ€reinforced geopolymer concrete. Structural Concrete, 0, , . | 1.5 | 5 |
| 994 | A method for the mix design of low carbon concrete towards industrial production. Materials and Structures/Materiaux Et Constructions, 2022, 55, . | 1.3 | 2 |
| 995 | Performance of photocatalytic, carbonated calcium sulfoaluminate-belite cement. Cement and Concrete Composites, 2022, 134, 104787. | 4.6 | 4 |
| 996 | Mechanical Strength Optimization of Geopolymer Concrete Pavement Blocks. Lecture Notes in Civil Engineering, 2023, , 609-621. | 0.3 | 1 |
| 997 | The Impact of Molar Proportion of Sodium Hydroxide and Water Amount on the Compressive Strength of Slag/Metakaolin (Waste Materials) Geopolymer Mortar. Advances in Civil Engineering, 2022, 2022, 1-14. | 0.4 | 1 |
| 998 | Mitigating plastic shrinkage cracking in alkali-activated slag systems by internal curing with superabsorbent polymers. Cement and Concrete Composites, 2022, 134, 104784. | 4.6 | 11 |
| 999 | Influence of tartaric acid dosage on the early-age and long-term properties of calcium sulfoaluminate belite cement composites. Construction and Building Materials, 2022, 356, 129257. | 3.2 | 7 |
| 1000 | Preparation of phosphogypsum (PG) based artificial aggregate and its application in the asphalt mixture. Construction and Building Materials, 2022, 356, 129218. | 3.2 | 7 |
| 1001 | Utilization of Green Material for Concrete in Construction. , 2022, 2, 82-95. | | 1 |
| 1002 | Influence of Fe2O3, MgO and Molarity of NaOH Solution on the Mechanical Properties of Fly Ash-Based Geopolymers. Materials, 2022, 15, 6965. | 1.3 | 1 |
| 1003 | Effects of various curing methods on the compressive strength and microstructure of blast furnace slag-fly ash-based cementitious material activated by alkaline solid wastes. Construction and Building Materials, 2022, 357, 129397. | 3.2 | 9 |
| 1004 | Design and performance optimization of alkali-activated waste coal bottom ash/slag porous concrete. Construction and Building Materials, 2022, 359, 129413. | 3.2 | 6 |
| 1005 | Drying shrinkage and microstructure of alkali-activated slag with different mixing time at low temperatures (â˜'5 to 5ÂÂ°C). Construction and Building Materials, 2022, 360, 129529. | 3.2 | 0 |
| 1006 | The underlying role of sodium tripolyphosphate on the cementitious mechanism of calcium carbonate binder. Composites Part B: Engineering, 2022, 247, 110362. | 5.9 | 6 |
| 1007 | Study on combined technology of glutathione reduction and alkali solidification of chromium-containing sludge. Ecotoxicology and Environmental Safety, 2022, 247, 114221. | 2.9 | 1 |
| 1008 | Modification on the chloride binding capacity of alkali activated slag by applying calcium and aluminium containing phases. Construction and Building Materials, 2022, 358, 129427. | 3.2 | 8 |
| 1009 | Thermodynamic properties and hydration behavior of ye'elimite. Cement and Concrete Research, 2022, 162, 106995. | 4.6 | 10 |
| 1010 | Influence of Content and Source of Calcium Sulfate on Supersulfated Cement Exposed to Sodium and Magnesium Sulfate Attack at Later Ages. Journal of Materials in Civil Engineering, 2023, 35, . | 1.3 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1011 | Microstructural characteristics and CO2 uptake of calcium sulfoaluminate cement by carbonation curing at different water-to-cement ratios. Cement and Concrete Research, 2023, 163, 107012. | 4.6 | 24 |
| 1012 | Utilization of high-volume phosphogypsum in artificial aggregate by compaction granulation: effects of muck on physical properties, strength and leaching stability. Journal of Sustainable Cement-Based Materials, 2023, 12, 951-961. | 1.7 | 0 |
| 1013 | Hybrid alkali activated cements (HAACs) system: A state-of-the-art review on fresh, mechanical, and durability behaviour. Construction and Building Materials, 2022, 361, 129636. | 3.2 | 9 |
| 1014 | Study on the hydration properties of a ternary cementitious material system containing activated gold tailings and granulated blast furnace slag. Journal of Building Engineering, 2023, 63, 105574. | 1.6 | 5 |
| 1015 | A Review on Selected Durability Parameters on Performance of Geopolymers Containing Industrial By-products, Agro- Wastes and Natural Pozzolan. Journal of Sustainable Construction Materials and Technologies, 2022, 7, 375-400. | 0.4 | 2 |
| 1016 | Environmental impact assessment of alkali-activated materials: Examining impacts of variability in constituent production processes and transportation. Construction and Building Materials, 2023, 363, 129032. | 3.2 | 24 |
| 1017 | Effects of Ms modulus, Na concentration and fly ash content on properties of vapour-cured geopolymer mortars exposed to high temperatures. Construction and Building Materials, 2023, 363, 129868. | 3.2 | 6 |
| 1018 | Behavior of calcined clay based geopolymers under sulfuric acid attack: Meta-illite and metakaolin. Construction and Building Materials, 2023, 363, 129889. | 3.2 | 5 |
| 1019 | Effective utilization of agricultural waste in synthesizing activator for sustainable geopolymer technology. Construction and Building Materials, 2023, 362, 129681. | 3.2 | 14 |
| 1020 | Hydration and compressive strength of supersulfated cement with low-activity high alumina ferronickel slag. Cement and Concrete Composites, 2023, 136, 104892. | 4.6 | 17 |
| 1021 | Assessing the individual impact of magnesia and titania nano- particles on the performance of alkali-activated slag mortars. Construction and Building Materials, 2023, 365, 130103. | 3.2 | 3 |
| 1022 | Effect of disodium EDTA on hydration and mechanical properties of calcium sulphoaluminate-belite cement. Cement and Concrete Research, 2023, 164, 107041. | 4.6 | 7 |
| 1023 | Fly Ash-Based Geopolymers as Lower Carbon Footprint Alternatives to Portland Cement for Well Cementing Applications. Energies, 2022, 15, 8819. | 1.6 | 5 |
| 1024 | Macroscopic Properties and Pore Structure Fractal Characteristics of Alkali-Activated Metakaolinâ€“Slag Composite Cementitious Materials. Polymers, 2022, 14, 5217. | 2.0 | 2 |
| 1025 | Evaluation of the efflorescence resistance of calcium sulfoaluminate cement mortar: from indoor accelerated testing to outdoor exposure. Journal of Materials Research and Technology, 2023, 22, 2447-2461. | 2.6 | 3 |
| 1026 | Freezeâ€“thaw resistance and sorptivity of fineâ€grained alkaliâ€activated cement concrete. Structural Concrete, 0, , . | 1.5 | 0 |
| 1027 | EFFECT OF BORAX ON CALCIUM SULFOALUMINATE CEMENT PROPERTIES. Ceramics - Silikaty, 2022, , 0-0. | 0.2 | 1 |
| 1028 | Use of a Full Factorial Design to Study the Relationship between Water Absorption and Porosity of GP and BW Mortar Activated. Advances in Civil Engineering, 2022, 2022, 1-10. | 0.4 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1029 | Effect of glass powder on the rheological and mechanical properties of slag-based mechanochemical activation geopolymer grout. European Journal of Environmental and Civil Engineering, 2023, 27, 3628-3652. | 1.0 | 2 |
| 1030 | Study on the Influence of Alkali Activator Solutions on Strength Improvement of Pozzolan Calcium Hydroxide Binders. Journal of Geoscience and Environment Protection, 2022, 10, 313-330. | 0.2 | 0 |
| 1031 | Microstructure Evolution Mechanism of Quaternary Phase Paste Containing Metakaolin and Silica Fume. ACS Sustainable Chemistry and Engineering, 2023, 11, 842-853. | 3.2 | 0 |
| 1032 | Flexural Behavior of GBFS-Based Geopolymer-Reinforced Concrete Beams. Buildings, 2023, 13, 141. | 1.4 | 1 |
| 1033 | Performances and microstructure of one-part fly ash geopolymer activated by calcium carbide slag and sodium metasilicate powder. Construction and Building Materials, 2023, 367, 130303. | 3.2 | 18 |
| 1034 | Anisotropic compressional behaviour of the Sorel cement F5-phase (Mg3(OH)5ClÂ·4H2O). Construction and Building Materials, 2023, 366, 130162. | 3.2 | 0 |
| 1035 | Development of alternative cementitious binders for 3D printing applications: A critical review of progress, advantages and challenges. Composites Part B: Engineering, 2023, 252, 110492. | 5.9 | 19 |
| 1036 | Rheological and microstructural properties of FA+GGBFS-based engineered geopolymer composites (EGCs) capable of comparing with M45-ECC as mechanical performance. Journal of Building Engineering, 2023, 65, 105792. | 1.6 | 1 |
| 1037 | Recent Advances in Alternative Cementitious Materials for Nuclear Waste Immobilization: A Review. Sustainability, 2023, 15, 689. | 1.6 | 5 |
| 1038 | Impact of amino acids as performance-controlling additives on the hydration of reactive MgO. Journal of Physics: Conference Series, 2023, 2423, 012029. | 0.3 | 0 |
| 1039 | Effect of Class C and Class F Fly Ash on Early-Age and Mature-Age Properties of Calcium Sulfoaluminate Cement Paste. Sustainability, 2023, 15, 2501. | 1.6 | 0 |
| 1040 | Toward performance improvement of supersulfated cement by nano silica: Asynchronous regulation on the hydration kinetics of silicate and aluminate. Cement and Concrete Research, 2023, 167, 107117. | 4.6 | 12 |
| 1041 | Rheology control of limestone calcined clay cement pastes by modifying the content of fine-grained metakaolin. Journal of Sustainable Cement-Based Materials, 2023, 12, 1126-1140. | 1.7 | 2 |
| 1042 | Effective use of biochar as an additive for alkali-activated slag mortar production. Construction and Building Materials, 2023, 370, 130487. | 3.2 | 4 |
| 1043 | Box-Behnken design based optimization and characterization of new eco-friendly building materials based on slag activated by diatomaceous earth. Construction and Building Materials, 2023, 375, 131027. | 3.2 | 2 |
| 1044 | Mechanical Performance and Chloride Penetration of Calcium Sulfoaluminate Concrete in Marine Tidal Zone. Materials, 2023, 16, 2905. | 1.3 | 2 |
| 1045 | Long-term performance of ferrite-rich calcium sulfoaluminate cement-based paste under seawater corrosion. Construction and Building Materials, 2023, 377, 131056. | 3.2 | 4 |
| 1046 | Interpretation of the early stiffening process in alkali-activated slag pastes. Cement and Concrete Research, 2023, 167, 107118. | 4.6 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1047 | A new eco-friendly concrete made of high content phosphogypsum based aggregates and binder: Mechanical properties and environmental benefits. Journal of Cleaner Production, 2023, 400, 136555. | 4.6 | 16 |
| 1048 | Production of perlite-based-aerated geopolymer using hydrogen peroxide as eco-friendly material for energy-efficient buildings. Journal of Materials Research and Technology, 2023, 24, 81-99. | 2.6 | 17 |
| 1049 | Recent progress on graphene oxide for next-generation concrete: Characterizations, applications and challenges. Journal of Building Engineering, 2023, 69, 106192. | 1.6 | 5 |
| 1050 | Optimization of alkali-activated binders using natural minerals and industrial waste materials as precursor materials. Journal of Building Engineering, 2023, 69, 106230. | 1.6 | 3 |
| 1051 | Multi-objective optimization of fly ash-slag based geopolymer considering strength, cost and CO2 emission: A new framework based on tree-based ensemble models and NSGA-II. Journal of Building Engineering, 2023, 68, 106070. | 1.6 | 4 |
| 1052 | Mechanisms of Chemical and Autogenous Shrinkage in Alkali-Activated Hybrid Systems. Journal of Materials in Civil Engineering, 2023, 35, . | 1.3 | 0 |
| 1053 | Reinforcing effects of carbon nanotubes on cement-based grouting materials under dynamic impact loading. Construction and Building Materials, 2023, 382, 131083. | 3.2 | 10 |
| 1054 | Effects of amino acids on the multiscale properties of carbonated wollastonite composites. Construction and Building Materials, 2023, 374, 130816. | 3.2 | 5 |
| 1055 | Efficient utilization of waste CRT glass in low carbon super-sulfated cement mortar. Cement and Concrete Composites, 2023, 139, 105037. | 4.6 | 7 |
| 1056 | Effect of copper and stainless steel slags on fresh, mechanical and pore structure properties of alkali activated ground granulated blast furnace slag. Case Studies in Construction Materials, 2023, 18, e01981. | 0.8 | 3 |
| 1057 | Sodium-based activators in alkali- activated materials: Classification and comparison. Journal of Building Engineering, 2023, 70, 106397. | 1.6 | 3 |
| 1058 | Rice husk ash as an alternative soluble silica source for alkali-activated metakaolin systems applied to recycled asphalt pavement stabilization. Transportation Geotechnics, 2023, 39, 100940. | 2.0 | 8 |
| 1059 | Hydration and phase conversion of MgO-modified calcium aluminate cement. Construction and Building Materials, 2023, 369, 130425. | 3.2 | 3 |
| 1060 | Fresh properties of limestone-calcined clay-slag cement pastes. Cement and Concrete Composites, 2023, 138, 104962. | 4.6 | 9 |
| 1061 | Portland/Sulfoaluminate Cement Blends for the Control of Early Age Hydration and Yield Stress. Buildings, 2023, 13, 409. | 1.4 | 3 |
| 1062 | The Influence of Substitution of Fly Ash with Marble Dust or Blast Furnace Slag on the Properties of the Alkali-Activated Geopolymer Paste. Coatings, 2023, 13, 403. | 1.2 | 9 |
| 1063 | M45-ECC ve uÃ§ucu kÃ¼l+cÃ¼ruf esaslÄ± tasarlanmÄ±ÅŸ geopolimer kompozitlerin mekanik ve mikroyapÄ±sal Ã¶zellikleri. Ã–mer Halisdemir Ãœniversitesi MÃ¼hendislik Bilimleri Dergisi, 0, , . | 0.2 | 0 |
| 1065 | Can superabsorbent polymers be used as rheology modifiers for cementitious materials in the context of 3D concrete printing?. Construction and Building Materials, 2023, 371, 130777. | 3.2 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1066 | Study on the characteristics of alkali-activated fly ash-slag improved by cenosphere: Hydration and drying shrinkage. Construction and Building Materials, 2023, 372, 130822. | 3.2 | 9 |
| 1067 | Zinc oxide in alkali-activated slag (AAS): retardation mechanism, reaction kinetics and immobilization. Construction and Building Materials, 2023, 371, 130739. | 3.2 | 3 |
| 1068 | Silane-modified graphene oxide in geopolymer: Reaction kinetics, microstructure, and mechanical performance. Cement and Concrete Composites, 2023, 139, 104997. | 4.6 | 5 |
| 1069 | Investigation on water and fertilizer retention properties of hydrated sulphoaluminate cement pastes modified by bentonite for porous ecological concrete. Case Studies in Construction Materials, 2023, 18, e01967. | 0.8 | 0 |
| 1070 | Experimental Investigation of Geopolymers for Application in High-Temperature and Geothermal Well Cementing. , 2023, , . | | 1 |
| 1071 | Development of a High-Performance Concrete Compressive-Strength Prediction Model Using an Ensemble Machine-Learning Method Based on Bagging and Stacking. Journal of the Computational Structural Engineering Institute of Korea, 2023, 36, 9-18. | 0.1 | 1 |
| 1072 | Influence of different grinding degrees of fly ash on properties and reaction degrees of geopolymers. PLoS ONE, 2023, 18, e0282927. | 1.1 | 1 |
| 1073 | EFFECT OF Al ON THE STRUCTURE AND CYCLE OF C-S-H IN RECYCLABLE CEMENT. Cement Science and Concrete Technology, 2023, 76, 545-553. | 0.1 | 0 |
| 1074 | Geotechnical property development and micro-characteristic evolution of solidified sludge. Environmental Geotechnics, 0, , 1-13. | 1.3 | 0 |
| 1075 | Strength development and microstructure properties of slag activated with alkaline earth metal ions: a review study. European Journal of Environmental and Civil Engineering, 2023, 27, 4497-4527. | 1.0 | 2 |
| 1076 | Some Critical Reflections on the SEM-EDS Microanalysis of the Hydrotalcite-like Phase in Slag Cement Paste. Materials, 2023, 16, 3143. | 1.3 | 3 |
| 1077 | Nanomaterial-Reinforced Portland-Cement-Based Materials: A Review. Nanomaterials, 2023, 13, 1383. | 1.9 | 4 |
| 1078 | Mechanical performance of cementitious composites reinforced with weft-knitted spacer fabrics under static flexural and impact loading. Construction and Building Materials, 2023, 384, 131376. | 3.2 | 2 |
| 1079 | Enhancing the thermo-mechanical properties of calcium aluminate concrete at elevated temperatures using synergistic flame-retardant polymer fibres. Cement and Concrete Composites, 2023, 140, 105088. | 4.6 | 11 |
| 1080 | HYDRATION AND EARLY MECHANICAL PERFORMANCE OF BELITE SULFOALUMINATE CEMENT CONTAINING MgAlâ„‚Oâ„ FROM SOLID WASTE. Ceramics - Silikaty, 2023, , 167-173. | 0.2 | 0 |
| 1081 | A Comprehensive Investigation on the Influence of Zeolite, Pumice, and Limestone Powder on the Characteristics of Eco-Friendly Calcium Aluminate Cement Mixes. Advances in Materials Science and Engineering, 2023, 2023, 1-17. | 1.0 | 1 |
| 1087 | First Global Implementation of Geopolymer in Primary Casing Cementing. , 2023, , . | | 1 |
| 1098 | The Influence of Gypsum Content on the Hydration and Properties of Belite-Yeâ€™elimite-Ferrite (BYF) Clinker. RILEM Bookseries, 2023, , 197-208. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1099 | Influence of Slag Chemistry on the Carbonation of Sodium Sulfate-Activated Slag Cements. RILEM Bookseries, 2023, , 451-461. | 0.2 | 0 |
| 1100 | Evaluation of the Cracking Risk in Alkali Activated Materials by Means of Restrained Shrinkage. RILEM Bookseries, 2023, , 374-384. | 0.2 | 0 |
| 1121 | Compressive strength of geopolymer concrete from volcanic ash calcination. AIP Conference Proceedings, 2023, , . | 0.3 | 0 |
| 1149 | Effect of Untreated Recycled Aggregate on Properties of GPC. Lecture Notes in Civil Engineering, 2024, , 17-27. | 0.3 | 0 |
| 1161 | Stabilization and solidification of oil-polluted soils using secondary stabilizers and industrial wastes. International Journal of Environmental Science and Technology, 2024, 21, 2129-2162. | 1.8 | 1 |
| 1176 | PRODUÃ‡ÃƒO DE CIMENTO SEM CLÃNQUER A PARTIR DE COPRODUTOS SIDERÃšRGICOS E RESÃDUOS DA CONSTRUÃ‡ÃƒO. , 0, , . | | 0 |
| 1186 | Sustainable Utilization of Anthropogenic Coal Fly Ash Through Mechanical and Chemical Activation. , 2023, , 143-159. | | 0 |
| 1201 | A comprehensive review of synthesis kinetics and formation mechanism of geopolymers. RSC Advances, 2024, 14, 446-462. | 1.7 | 0 |
| 1206 | Cementitious binders incorporating residues. , 2024, , 429-444. | | 0 |
| 1213 | Evaluating the Performance of Alkali-Activated Materials Containing Phase Change Materials: A Review. Lecture Notes in Civil Engineering, 2024, , 789-804. | 0.3 | 0 |
| 1221 | Consistency, setting, and strength properties of fly ash and slag based geopolymer mortar activated with water glass. , 2024, , 41-52. | | 0 |