

CITATION REPORT

List of articles citing

Advances in understanding alkali-activated materials

DOI: 10.1016/j.cemconres.2015.04.013

Cement and Concrete Research, 2015, 78, 110-125.

Source: <https://exaly.com/paper-pdf/62064384/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
756	Superplasticizer Addition to Carbon Fly Ash Geopolymers Activated at Room Temperature. 2016 , 9,		15
755	Quantitative Analysis of Phase Assemblage and Chemical Shrinkage of Alkali-Activated Slag. 2016 , 14, 245-260		52
754	Alkali-Activated Inorganic Based Brake Pads: Realization and Performances of Alternative Friction Materials for a Concrete Industrial Application. 2016 ,		0
753	Fracture Theory Under Freeze-Thaw Cycles and Freeze-Thaw Resistance of Alkali-Slag Concrete. 2016 ,		
752	Use of non-wood biomass combustion ash in development of alkali-activated concrete. 2016 , 121, 491-500		29
751	Management and valorisation of wastes through use in producing alkali-activated cement materials. 2016 , 91, 2365-2388		85
750	Recent developments on inorganic polymers synthesis and applications. 2016 , 42, 15142-15159		87
749	Composite geopolymers of metakaolin and geothermal nanosilica waste. 2016 , 115, 269-276		26
748	Synthesis of stoichiometrically controlled reactive aluminosilicate and calcium-aluminosilicate powders. 2016 , 297, 17-33		27
747	A Review on the Durability of Alkali-Activated Fly Ash/Slag Systems: Advances, Issues, and Perspectives. 2016 , 55, 5439-5453		99
746	Effect of curing temperature and SiO ₂ /K ₂ O molar ratio on the performance of metakaolin-based geopolymers. 2016 , 42, 16184-16190		49
745	Effect of synthesis parameters on the performance of alkali-activated non-conformant EN 450 pulverised fuel ash. 2016 , 121, 453-459		3
744	Phase evolution of C-(N)-A-S-H/N-A-S-H gel blends investigated via alkali-activation of synthetic calcium aluminosilicate precursors. <i>Cement and Concrete Research</i> , 2016 , 89, 120-135	10.3	143
743	Reactivity of volcanic ash in alkaline medium, microstructural and strength characteristics of resulting geopolymers under different synthesis conditions. 2016 , 51, 10301-10317		52
742	A study on the corrosion of reinforcing bars in alkali-activated fly ash mortars under wet and dry exposures to chloride solutions. <i>Cement and Concrete Research</i> , 2016 , 87, 53-63	10.3	55
741	Compressive strength of one-part alkali activated fly ash using red mud as alkali supplier. 2016 , 125, 21-28		59
740	Thermal effects of activators on the setting time and rate of workability loss of geopolymers. 2016 , 42, 19257-19268		18

739	Increasing the sustainability of alkali-activated binders: The use of sugar cane straw ash (SCSA). 2016 , 124, 148-154	27
738	Shrinkage mechanisms of alkali-activated slag. <i>Cement and Concrete Research</i> , 2016 , 88, 126-135	10,3 166
737	Evaluation of activated high volume fly ash systems using Na ₂ SO ₄ , lime and quicklime in mortars with high loss on ignition fly ashes. 2016 , 128, 248-255	51
736	Effect of water addition, plasticizer and alkaline solution constitution on fly ash based geopolymer concrete performance. 2016 , 121, 694-703	104
735	Environmental life cycle assessment of lightweight concrete to support recycled materials selection for sustainable design. 2016 , 119, 370-384	25
734	Influence of limestone content, fineness, and composition on the properties and microstructure of alkali-activated slag cement. 2016 , 72, 268-274	39
733	Effect of nano-clay on mechanical and thermal properties of geopolymerPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. 2016 , 4, 19-28	87
732	The Role of Water Content and Paste Proportion on Physico-mechanical Properties of Alkali Activated Fly Ash Gbs Concrete. 2016 , 2, 51-61	19
731	Elucidating the atomic structures of different sources of fly ash using X-ray and neutron PDF analysis. 2016 , 177, 148-156	14
730	Phase evolution of fly ash calcium constituent at early alkali activation reaction age. 2016 , 174, 175-179	6
729	Phase evolution of Na ₂ O-Al ₂ O ₃ -SiO ₂ -H ₂ O gels in synthetic aluminosilicate binders. 2016 , 45, 5521-35	51
728	Composite properties of high-strength polyethylene fiber-reinforced cement and cementless composites. 2016 , 138, 116-121	54
727	Effects of alkali on one-part alkali-activated cement synthesized by calcining bentonite with dolomite and Na ₂ CO ₃ . 2017 , 139, 64-71	29
726	The influence of alkali activator type, curing temperature and gibbsite on the geopolymerization of an interstratified illite-smectite rich clay from Friedland. 2017 , 135, 386-393	34
725	Preparation of drying powder inorganic polymer cement based on alkali-activated slag technology. 2017 , 312, 204-209	43
724	Red mud-based geopolymers with tailored alkali diffusion properties and pH buffering ability. 2017 , 148, 23-30	74
723	Low temperature depolymerization and polycondensation of a slag-based inorganic polymer. 2017 , 43, 9067-9076	25
722	Alkali-activated mortars: Workability and rheological behaviour. 2017 , 145, 576-587	50

721	Shrinkage and creep behavior of an alkali-activated slag concrete. 2017 , 18, 801-810	32
720	Micro-mechanical properties of alkali-activated fly ash evaluated by nanoindentation. 2017 , 147, 407-416	25
719	Investigations on the coefficient of thermal expansion of a low-calcium fly ash-based geopolymer concrete. 2017 , 18, 781-791	4
718	Guidelines for mix proportioning of fly ash/GGBS based alkali activated concretes. 2017 , 147, 130-142	70
717	Resistance to acid attack of alkali-activated binders: Simple new techniques to measure susceptibility. 2017 , 150, 355-366	11
716	The effect of the extent of polymerisation of a slag structure on the strength of alkali-activated slag binders. 2017 , 164, 37-44	18
715	Structural evolution of synthetic alkali-activated CaO-MgO-Na ₂ O-Al ₂ O ₃ -SiO ₂ materials is influenced by Mg content. <i>Cement and Concrete Research</i> , 2017 , 99, 155-171	10.3 43
714	Pore characteristics in one-part mix geopolymers foamed by H ₂ O ₂ : The impact of mix design. 2017 , 130, 381-391	95
713	Preparation, characterization and reaction kinetics of green cement: Ecuadorian natural mordenite-based geopolymers. 2017 , 50, 1	19
712	Formulation and characterization of blended alkali-activated materials based on flash-calcined metakaolin, fly ash and GGBS. 2017 , 144, 50-64	45
711	Insights on molecular structure and micro-properties of alkali-activated slag materials: A reactive molecular dynamics study. 2017 , 139, 430-437	13
710	Mechanical and microstructural characterization of alkali sulfate activated high volume fly ash binders. 2017 , 122, 236-246	34
709	Identifying the bond and abrasion behavior of alkali activated concretes by central composite design method. 2017 , 132, 196-209	5
708	Thermomechanical performance of blended metakaolin-GGBS alkali-activated foam concrete. 2017 , 157, 982-993	39
707	External sulfate attack on alkali-activated fly ash-blast furnace slag composite. 2017 , 157, 737-747	37
706	Compressive strength and microstructure of alkali-activated mortars with high ceramic waste content. 2017 , 43, 13622-13634	38
705	Durability of alkali-activated materials in aggressive environments: A review on recent studies. 2017 , 152, 598-613	124
704	Fly ash-based geopolymer chemistry and behavior. 2017 , 185-214	1

703	Geopolymere als Spezialbaustoff. 2017 , 65, 1198-1202		1
702	Pitting corrosion resistance of a novel duplex alloy steel in alkali-activated slag extract in the presence of chloride ions. 2017 , 24, 1134-1144		7
701	Optimization of the alkali activation conditions of ground granulated SiMn slag. 2017 , 150, 781-791		18
700	Composition design and performance of alkali-activated cements. 2017 , 50, 1		61
699	Cement industry of China: Driving force, environment impact and sustainable development. 2017 , 75, 618-628		98
698	Alkali fusion of bentonite to synthesize one-part geopolymeric cements cured at elevated temperature by comparison with two-part ones. 2017 , 130, 103-112		27
697	On drying shrinkage in alkali-activated concrete: Improving dimensional stability by aging or heat-curing. <i>Cement and Concrete Research</i> , 2017 , 91, 13-23	10.3	88
696	Calorimetric study of geopolymer binders based on natural pozzolan. 2017 , 127, 2181-2190		26
695	8. Chemistry, design and application of hybrid alkali activated binders. 2017 , 253-284		
694	8. Applied mineralogy for recovery from the accident of Fukushima Daiichi Nuclear Power Station. 2017 , 153-170		
693	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. <i>Miner Eng</i> 2012;29:891-904.. 2017 , 217-262		6
692	Alternative inorganic binders based on alkali-activated metallurgical slags. 2017 , 185-220		6
691	Alkali-Activated Cement-Based Binders (AACBs) as Durable and Cost-Competitive Low-CO2 Binder Materials: Some Shortcomings That Need to be Addressed. 2017 , 195-216		13
690	Effect of Alkalis on Cementitious Materials: Understanding the Relationship between Composition, Structure, and Volume Change Mechanism. 2017 , 15, 165-177		17
689	Leaching assessment as a component of environmental safety and durability analyses for NORM containing building materials. 2017 , 253-288		
688	Use of Analytical Techniques for the Identification of the Geopolymer Reactions. 2017 , 33, 2103-2110		3
687	From NORM by-products to building materials. 2017 , 183-252		9
686	SELF-CEMENTING PROPERTIES AND ALKALI ACTIVATION OF ENEFIT280 SOLID HEAT CARRIER RETORTING ASH. 2017 , 34, 263		1

685	Use of slaked lime and Portland cement to improve the resistance of MSWI bottom ash-GBFS geopolymer concrete against carbonation. 2018 , 166, 290-300	39
684	One-part geopolymer cement from slag and pretreated paper sludge. 2018 , 185, 168-175	66
683	Examination of alkali-activated material nanostructure during thermal treatment. 2018 , 53, 9486-9503	18
682	The application of experimental design models in order to optimize the synthesis of geopolymers. 2018 , 149, 01029	1
681	Alkali-activated blends of calcined AlF ₃ production waste and clay. 2018 , 44, 12573-12579	4
680	Reuse of waste sandstone sludge via alkali activation in matrices of fly ash and metakaolin. 2018 , 172, 212-223	20
679	Nanoscale attraction between calcium-aluminosilicate-hydrate and Mg-Al layered double hydroxides in alkali-activated slag. 2018 , 140, 95-102	18
678	Workability and mechanical properties of alkali-activated fly ash-slag concrete cured at ambient temperature. 2018 , 172, 476-487	157
677	Performance of alkali-activated slag concrete against sulphuric acid attack. 2018 , 19, 451-461	8
676	Alkali activation of a novel calcium-silicate hydraulic binder with CaO/SiO ₂ '=1.1. 2018 , 101, 4158-4170	2
675	Rheology of Cementitious Materials: Alkali-Activated Materials or Geopolymers. 2018 , 149, 01002	5
674	Development and application of an environmentally friendly ductile alkali-activated composite. 2018 , 180, 524-538	31
673	Electrochemical performance of reinforcing steel in alkali-activated slag extract in the presence of chlorides. 2018 , 133, 288-299	42
672	New Structural Model of Hydrous Sodium Aluminosilicate Gels and the Role of Charge-Balancing Extra-Framework Al. 2018 , 122, 5673-5685	45
671	Advances in concrete materials for sewer systems affected by microbial induced concrete corrosion: A review. 2018 , 134, 341-352	97
670	Alkali-activated materials from different aluminosilicate sources: Effect of aluminum and calcium availability. 2018 , 484, 14-25	32
669	Evaluating an Eco-Olivine Nanosilica as an Alternative Silica Source in Alkali-Activated Composites. 2018 , 30, 04018016	3
668	Synthesis and characterization of geopolymers containing blends of unprocessed steel slag and metakaolin: The role of slag particle size. 2018 , 44, 5226-5232	29

667	Neutron scattering measurement of water content and chemical composition of alkali-glass powder reacted gel. 2018 , 136, 165-174		
666	Coal fly ash activation Comparison of isothermal calorimetric data and mortar strength. 2018 , 659, 151-156		6
665	Enhancing the strength of pre-made foams for foam concrete applications. 2018 , 87, 164-171		106
664	Lightweight aerated metakaolin-based geopolymer incorporating municipal solid waste incineration bottom ash as gas-forming agent. 2018 , 177, 775-781		23
663	Mechanisms of autogenous shrinkage of alkali-activated fly ash-slag pastes cured at ambient temperature within 24 h. 2018 , 171, 377-387		47
662	New use of sugar cane straw ash in alkali-activated materials: A silica source for the preparation of the alkaline activator. 2018 , 171, 611-621		31
661	Preparation and Characterization of an Eco-Friendly Binder from Alkali-Activated Aluminosilicate Solid Industrial Wastes Containing CKD and GGBS. 2018 , 30, 04018093		2
660	Assessment of the suitability of gravel wash mud as raw material for the synthesis of an alkali-activated binder. 2018 , 161, 110-118		9
659	Effects of POFA replaced with FA on durability properties of GBFS included alkali activated mortars. 2018 , 175, 174-186		54
658	Characteristics and applications of fly ash as a sustainable construction material: A state-of-the-art review. 2018 , 136, 95-109		194
657	Use of tartaric acid for the production of sustainable Portland-free CSA-based mortars. 2018 , 171, 243-249		27
656	Alkali-silica reaction in waterglass-activated slag mortars incorporating fly ash and metakaolin. <i>Cement and Concrete Research</i> , 2018 , 108, 10-19	10.3	66
655	Optimum Use of Sugar Cane Straw Ash in Alkali-Activated Binders Based on Blast Furnace Slag. 2018 , 30, 04018084		4
654	The Influence of Activator Composition on the Strength, Shrinkage and Chloride Migration Resistance of Alkali-Activated Slag Mortars. 2018 , 761, 61-64		
653	Geopolymer synthesis by the alkali-activation of blastfurnace steel slag and its fire-resistancePeer review under responsibility of Housing and Building National Research Center.View all notes. 2018 , 14, 159-164		32
652	Alkali-activated materials. <i>Cement and Concrete Research</i> , 2018 , 114, 40-48	10.3	569
651	Porous structure optimisation of flash-calcined metakaolin/fly ash geopolymer foam concrete. 2018 , 22, 1482-1498		14
650	First structural use of site-cast, alkali-activated slag concrete in China. 2018 , 171, 800-809		12

649	Hormigones de escorias activadas alcalinamente. Comportamiento mecánico y durable. 2018 , 69, 163-168	1
648	Alkali-Activation of Calcined Clays [Past, Present and Future. 2018 , 372-376	6
647	Recycling mine tailings in chemically bonded ceramics [A review. 2018 , 174, 634-649	87
646	Life cycle assessment of emergent masonry blocks. 2018 , 171, 1622-1637	24
645	Alkali-activated slag concrete: Fresh and hardened behaviour. 2018 , 85, 22-31	77
644	Strength development and durability of alkali-activated fly ash mortar with calcium carbide residue as additive. 2018 , 162, 714-723	52
643	Radioactivity and Pb and Ni immobilization in SCM-bearing alkali-activated matrices. 2018 , 159, 745-754	18
642	Isothermal calorimetry and in-situ XRD study of the NaOH activated fly ash, metakaolin and slag. <i>Cement and Concrete Research</i> , 2018 , 103, 110-122	103 108
641	Alkali-Activated Binder Based on Milled Antigorite. 2018 , 8, 503	12
640	Development of Alkaline-Activated Self-Leveling Hybrid Mortar Ash-Based Composites. 2018 , 11,	8
639	Development of green building materials through alkali activation of industrial wastes and by-products. 2018 , 5, 27329-27336	7
638	Use of Industrial Waste Slag in Alkali-Activated Slag Ceramsite Concrete Hollow Blocks. 2018 , 8, 2358	3
637	Slag and Activator Chemistry Control the Reaction Kinetics of Sodium Metasilicate-Activated Slag Cements. 2018 , 10, 4709	29
636	Some Progresses in the Challenges for Geopolymer. 2018 , 431, 022003	4
635	Pressure-Induced Geopolymerization in Alkali-Activated Fly Ash. 2018 , 10, 3538	10
634	Fracture properties of slag/fly ash-based geopolymer concrete cured in ambient temperature. 2018 , 190, 787-795	45
633	Properties of alkali-activated ground granulated blast furnace slag blended with ferronickel slag. 2018 , 192, 123-132	27
632	The effect of water molecules on the structure, dynamics, and mechanical properties of sodium aluminosilicate hydrate (NASH) gel: A molecular dynamics study. 2018 , 193, 491-500	27

631	Natural volcanic pozzolans as an available raw material for alkali-activated materials in the foreseeable future: A review. 2018 , 189, 109-118	26
630	Rheological properties and microstructure of binary waste red brick powder/metakaolin geopolymer. 2018 , 188, 924-933	54
629	A calorimetric study of hydration of magnesia-ferriferous slag mechanically activated in air and in CO ₂ atmosphere. 2018 , 134, 165-171	3
628	Sustainable use of recycled crumb rubbers in eco-friendly alkali activated slag mortar: Dynamic mechanical properties. 2018 , 204, 1004-1015	26
627	Evaluation of alkali-activated blast furnace ferronickel slag as a cementitious material: Reaction mechanism, engineering properties and leaching behaviors. 2018 , 188, 860-873	47
626	Interaction between wastewater microorganisms and geopolymer or cementitious materials: Biofilm characterization and deterioration characteristics of mortars. 2018 , 134, 58-67	20
625	Alternation of traditional cement mortars using fly ash-based geopolymer mortars modified by slag. 2018 , 203, 746-756	64
624	Effect of porcelain tile polishing residue on geopolymer cement. 2018 , 191, 297-303	18
623	Drying shrinkage of alkali-activated fly ash/slag blended system. 2018 , 7, 203-213	15
622	Application of waste brick powder in alkali activated aluminosilicates: Functional and environmental aspects. 2018 , 194, 714-725	68
621	Effect of dosage of sodium carbonate on the strength and drying shrinkage of sodium hydroxide based alkali-activated slag paste. 2018 , 179, 11-24	44
620	Insights on magnesium and sulfate ions' adsorption on the surface of sodium alumino-silicate hydrate (NASH) gel: a molecular dynamics study. 2018 , 20, 18297-18310	23
619	Identifying hotspots of environmental impact in the development of novel inorganic polymer paving blocks from bauxite residue. 2018 , 138, 87-98	23
618	Role of soluble aluminum species in the activating solution for synthesis of silico-aluminophosphate geopolymers. 2018 , 93, 186-195	37
617	CO ₂ binding capacity of alkali-activated fly ash and slag pastes. 2018 , 44, 19646-19660	21
616	Study of alkali activated slag as alternative pavement binder. 2018 , 186, 626-634	20
615	Analysis of Active Ion-Leaching Behavior and the Reaction Mechanism During Alkali Activation of Low-Calcium Fly Ash. 2018 , 12,	7
614	Mechanical properties of alkali activated ground SiMn slag mortars with different types of aggregates. 2018 , 186, 79-89	11

613	A review of chloride transport in alkali-activated cement paste, mortar, and concrete. 2018 , 186, 191-206		32
612	Binders alternative to Portland cement and waste management for sustainable construction-part 1. 2018 , 16, 186-202		51
611	Alkali-Activated Mortars for Sustainable Building Solutions: Effect of Binder Composition on Technical Performance. 2018 , 5, 35		11
610	Electrochemical behaviour of a novel alloy steel in alkali-activated slag mortars. 2018 , 92, 110-124		21
609	Effects of alkali dosage and silicate modulus on alkali-silica reaction in alkali-activated slag mortars. <i>Cement and Concrete Research</i> , 2018 , 111, 104-115	10.3	42
608	Effect of alkali dosage and silicate modulus on carbonation of alkali-activated slag mortars. <i>Cement and Concrete Research</i> , 2018 , 113, 55-64	10.3	72
607	Carbonation activated binders from pure calcium silicates: Reaction kinetics and performance controlling factors. 2018 , 93, 85-98		35
606	A mixture proportioning method for the development of performance-based alkali-activated slag-based concrete. 2018 , 93, 163-174		64
605	Molecular structure, dynamics, and mechanical behavior of sodium aluminosilicate hydrate (NASH) gel at elevated temperature: a molecular dynamics study. 2018 , 20, 20695-20711		36
604	Carbon dioxide sequestration by alkali-activated materials. 2018 , 279-298		2
603	Effect of Ca(OH) ₂ on shrinkage characteristics and microstructures of alkali-activated slag concrete. 2018 , 175, 467-482		42
602	Study on improvement of carbonation resistance of alkali-activated slag concrete. 2018 , 176, 60-67		24
601	Structural analysis of composite metakaolin-based geopolymer concrete. 2018 , 11, 535-543		10
600	Effect of silicate modulus on the setting, mechanical strength and microstructure of iron-rich aluminosilicate (laterite) based-geopolymer cured at room temperature. 2018 , 44, 21442-21450		62
599	The influence of curing methods on the strength of MSWI bottom ash-based alkali-activated mortars: The role of leaching of OH ⁻ and free alkali. 2018 , 186, 978-985		34
598	Influence of Different Mineral Precursors on the Properties of Fly Ash Based Alkali-Activated Mortars. 2018 , 761, 73-78		1
597	Advances in understanding and analyzing the anti-diffusion behavior in complete carbonation zone of MSWI bottom ash-based alkali-activated concrete. 2018 , 186, 1072-1081		13
596	Atomistic and mesoscale simulation of sodium and potassium adsorption in cement paste. 2018 , 149, 074705		12

595	Influence of waste glass powder usage on the properties of alkali-activated slag mortars based on response surface methodology. 2018 , 181, 527-534	45
594	Chloride binding of alkali-activated slag/fly ash cements. 2019 , 226, 21-31	38
593	Strength prediction and mix design procedures for geopolymer and alkali-activated cement mortars comprising a wide range of environmentally responsible binder systems. 2019 , 4, 135-143	6
592	Comparative investigation of reactivity of different kinds of fly ash in alkaline media. 2019 , 138, 3857-3872	15
591	Effect of foaming agent on physical and mechanical properties of alkali-activated slag foamed concrete. 2019 , 226, 280-287	39
590	Autogenous Deformation of Alkali-Activated Blast Furnace Slag Concrete Subjected to Variable Curing Temperatures. 2019 , 2019, 1-8	5
589	A critical review on application of alkali activated slag as a sustainable composite binder. 2019 , 11, e00268	51
588	Carbonation induced phase evolution in alkali-activated slag/fly ash cements: The effect of silicate modulus of activators. 2019 , 223, 566-582	29
587	Low-Temperature Fabrication of Three-Dimensional Ceramic Substrate by Molding Inorganic Aluminosilicate Paste. 2019 , 141,	2
586	Influence of reactive SiO ₂ and Al ₂ O ₃ on mechanical and durability properties of geopolymers. 2019 , 20, 1203-1215	4
585	Effect of Heat Curing Method on the Mechanical Strength of Alkali-Activated Slag Mortar after High-Temperature Exposure. 2019 , 12,	7
584	Utilizing spend garnets as sand replacement in alkali-activated mortars containing fly ash and GBFS. 2019 , 225, 132-145	36
583	Influence of activator composition on the chloride binding capacity of alkali-activated slag. 2019 , 104, 103368	35
582	Dolomite-based quarry-dust as a substitute for fly-ash geopolymers and cement pastes. 2019 , 235, 910-919	22
581	Influence of NaO Content and Ms (SiO/NaO) of Alkaline Activator on Workability and Setting of Alkali-Activated Slag Paste. 2019 , 12,	14
580	Preparation and piezoresistive properties of carbon fiber-reinforced alkali-activated fly ash/slag mortar. 2019 , 222, 738-749	23
579	Microchemistry and microstructure of sustainable mined zeolite-geopolymer. 2019 , 234, 1165-1177	13
578	Development of unfired earthen building materials using muscovite rich soils and alkali activators. 2019 , 11, e00262	11

577	Property Comparison of Alkali-Activated Carbon Steel Slag (CSS) and Stainless Steel Slag (SSS) and Role of Blast Furnace Slag (BFS) Chemical Composition. 2019 , 12,	1
576	Properties of high-calcium and low-calcium fly ash combination geopolymer mortar containing recycled aggregate. 2019 , 5, e02513	25
575	Mechanism of sulfate attack on alkali-activated slag: The role of activator composition. <i>Cement and Concrete Research</i> , 2019 , 125, 105868	10.3 42
574	. 2019 ,	
573	Difference in the reaction process of slag activated by waterglass solution and NaOH solution. 2019 , 20, 1528-1540	5
572	Remote Sensing Image Change Detection Based on Information Transmission and Attention Mechanism. 2019 , 7, 156349-156359	23
571	Deep Inspection: An Electrical Distribution Pole Parts Study VIA Deep Neural Networks. 2019 ,	1
570	Characterization of geopolymers prepared using powdered brick. 2019 , 8, 6253-6261	18
569	Geopolymer, Calcium Aluminate, and Portland Cement-Based Mortars: Comparing Degradation Using Acetic Acid. 2019 , 12,	19
568	Effect of marine sediments incorporation on the behaviour of alkali-activated GGBFS. 2019 , 52, 1	5
567	Effects of Light-Burnt Dolomite Incorporation on the Setting, Strength, and Drying Shrinkage of One-Part Alkali-Activated Slag Cement. 2019 , 12,	7
566	Effect of the activator on the performance of alkali-activated slag mortars with pottery sand as fine aggregate. 2019 , 197, 83-90	19
565	Characteristics of Alkali-Activated Lithium Slag at Early Reaction Age. 2019 , 31, 04019312	7
564	Optimization of production parameters of geopolymer mortar and concrete: A comprehensive experimental study. 2019 , 228, 116770	21
563	The influence of steel slag and ferronickel slag on the properties of alkali-activated slag mortar. 2019 , 227, 116614	38
562	Realistic atomic structure of fly ash-based geopolymer gels: Insights from molecular dynamics simulations. 2019 , 151, 064307	16
561	Physical and Microstructure Properties of Geopolymer Nanocomposite Reinforced with Carbon Nanotubes. 2019 , 17, 1682-1692	11
560	Studies on high performance alkali activated slag concrete mixes subjected to aggressive environments and sustained elevated temperatures. 2019 , 229, 116887	23

559	One-part geopolymers from mining residues [Effect of thermal treatment on three different tailings. 2019 , 144, 106026		26
558	Accurate determination of the time-zero of autogenous shrinkage in alkali-activated fly ash/slag system. 2019 , 177, 107367		22
557	pH dependent leaching characterization of major and trace elements from fly ash and metakaolin geopolymers. <i>Cement and Concrete Research</i> , 2019 , 125, 105889	10.3	19
556	Self-healing of Engineered Geopolymer Composites prepared by fly ash and metakaolin. <i>Cement and Concrete Research</i> , 2019 , 125, 105895	10.3	28
555	Glass fibre-reinforced polymer circular alkali-activated fly ash/slag concrete members under combined loading. 2019 , 199, 109598		18
554	Compressive strength and hydration process of wet-grinded granulated blast-furnace slag activated by sodium sulfate and sodium carbonate. 2019 , 97, 387-398		77
553	Geopolymer Synthesis Using Garnet Tailings from Molybdenum Mines. 2019 , 9, 48		27
552	Effect of Early Age-Curing Methods on Drying Shrinkage of Alkali-Activated Slag Concrete. 2019 , 12,		11
551	Influence of Nitrate Corrosion Inhibitors on Phase Stability of Alkali-Activated Slag against Chloride Binding and Natural Carbonation. 2019 , 31, 04019160		14
550	Alkaline activation of high-calcium ash and iron ore tailings and their recycling potential in building materials. 2019 , 19, 99-112		10
549	Resistance to algae and fungi formation of high calcium fly ash geopolymer paste containing TiO ₂ . 2019 , 25, 100817		16
548	Sintering of metakaolin-based Na/Ca-geopolymers and their immobilization of Cs. 2019 , 102, 7125-7136		7
547	Cooperative action and compatibility between Portland cement and MSWI bottom ash alkali-activated double gel system materials. 2019 , 209, 445-453		11
546	Green alkali-activated mortar: Sustainable use of discarded cathode-ray tube glass powder as precursor. 2019 , 229, 1082-1092		15
545	Interfacial chemistry of a fly ash geopolymer and aggregates. 2019 , 231, 980-989		35
544	Optimum utilization of waste foundry sand and fly ash for geopolymer concrete synthesis using D-optimal mixture design of experiments. 2019 , 148, 114-123		24
543	Parameters affecting the properties and microstructure of quicklime (CaO) - Activated slag cement pastes. 2019 , 103, 104-111		14
542	Extraction of SiO ₂ and Al ₂ O ₃ from coal gangue activated by supercritical water. 2019 , 253, 1184-1192		15

541	Behavior of combined fly ash/GBFS-based geopolymer concrete after exposed to elevated temperature. 2019 , 267, 032056		7
540	ALKALI ACTIVATION OF ESTONIAN CA-RICH OIL SHALE ASHES: A SYNTHESIS. 2019 , 36, 214		3
539	Preparation and application of alkali-activated materials based on waste glass and coal gangue: A review. 2019 , 221, 84-98		44
538	Recent progress in low-carbon binders. <i>Cement and Concrete Research</i> , 2019 , 122, 227-250	10.3	154
537	High strength/density ratio in a syntactic foam made from one-part mix geopolymer and cenospheres. 2019 , 173, 106908		27
536	Alkali-activation of CaO-FeOx-SiO2 slag: Formation mechanism from in-situ X-ray total scattering. <i>Cement and Concrete Research</i> , 2019 , 122, 179-188	10.3	25
535	Effects of slag substitution on physical and mechanical properties of fly ash-based alkali activated binders (AABs). <i>Cement and Concrete Research</i> , 2019 , 122, 118-135	10.3	50
534	Solid-state nuclear magnetic resonance spectroscopy of cements. 2019 , 1, 100007		71
533	Improvement of early-age properties of silico-aluminophosphate geopolymer using dead burnt magnesia. 2019 , 217, 1-11		14
532	Bond properties of alkali-activated slag concrete hollow block masonry with different mortar strength grades. 2019 , 216, 149-165		3
531	Soaking Properties of Integrated Gasification Combined Cycle Slag-Based-Geopolymers and Their Nanometer-Scale Microstructures. 2019 , 19, 6309-6315		
530	The Potential of Ladle Slag and Electric Arc Furnace Slag use in Synthesizing Alkali Activated Materials; the Influence of Curing on Mechanical Properties. 2019 , 12,		22
529	Silico-Aluminophosphate and Alkali-Aluminosilicate Geopolymers: A Comparative Review. 2019 , 6,		68
528	Understanding the roles of activators towards setting and hardening control of alkali-activated slag cement. 2019 , 171, 34-45		61
527	A Review of Durability and Strength Characteristics of Alkali-Activated Slag Concrete. 2019 , 12,		31
526	Alkali-activated binary mortar based on natural volcanic pozzolan for repair applications. 2019 , 25, 100785		18
525	Waste olivine and silica sands boost geopolymers performances: experimental investigation. 2019 , 76, 491-506		2
524	Geopolymers and Other Alkali-Activated Materials. 2019 , 779-805		8

523	Sustainable stabilization/solidification of municipal solid waste incinerator fly ash by incorporation of green materials. 2019 , 222, 335-343	102
522	Application of alkali-activated materials for water and wastewater treatment: a review. 2019 , 18, 271-297	71
521	Effect of Temperature and pH on Early Hydration Rate and Apparent Activation Energy of Alkali-Activated Slag. 2019 , 2019, 1-13	0
520	Evaluation of alkali-activated mortars containing high volume waste ceramic powder and fly ash replacing GBFS. 2019 , 210, 78-92	67
519	Influence of silica fume on properties of fresh and hardened ultra-high performance concrete based on alkali-activated slag. 2019 , 100, 53-59	45
518	Aggregates Obtained by Alkali Activation of Fly Ash: The Effect of Granulation, Pelletization Methods and Curing Regimes. 2019 , 12,	5
517	Alkali activated clay mortars with different activators. 2019 , 212, 85-91	12
516	Clinoptilolite foams prepared by alkali activation of natural zeolite and their post-synthesis modifications. 2019 , 282, 169-178	14
515	A sludge and modified rice husk ash-based geopolymer: synthesis and characterization analysis. 2019 , 226, 805-814	30
514	Flexural performance of reinforced concrete beams strengthened with fibre reinforced geopolymer concrete under accelerated corrosion. 2019 , 19, 394-410	23
513	An Empathetic Added Sustainability Index (EASI) for cementitious based construction materials. 2019 , 220, 475-482	29
512	Application of nanomaterials in alkali-activated materials. 2019 , 97-121	6
511	In situ characterization of main reaction products in alkali-activated slag materials by Confocal Raman Microscopy. 2019 , 99, 32-39	20
510	Leaching of alkali-activated tungsten mining waste materials by electrical conductivity and DRX. 2019 , 274, 02002	1
509	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. 2019 , 126, 336-345	175
508	Alkali-activated binary concrete based on natural pozzolan; a real and eco-friendly alternative to the OPC concrete. 2019 , 274, 05003	
507	Characterization on the recycling of waste seashells with Portland cement towards sustainable cementitious materials. 2019 , 220, 235-252	45
506	An overview on the reuse of waste glasses in alkali-activated materials. 2019 , 144, 297-309	96

505	Research challenges for broader application of alternative binders in concrete. 2019 , 71, 877-888	1
504	Effects of Curing Conditions on Shrinkage of Alkali-Activated High-MgO Swedish Slag Concrete. 2019 , 6,	10
503	Physical properties and thermal conductivity of soil geopolymer block. 2019 , 1380, 012038	1
502	Utilizing Coal Bottom Ash from Thermal Power Plants in Vietnam as Partial Replacement of Aggregates in Concrete Pavement. 2019 , 2019, 1-11	5
501	In-service performance of hybrid geopolymer binders based class F fly ash. 2019 , 552, 012035	6
500	Layered double hydroxides modify the reaction of sodium silicate-activated slag cements. 2019 , 7, 52-60	7
499	The effectiveness of different superplasticizers in ambient cured one-part alkali activated pastes. 2019 , 97, 166-174	56
498	Review on designs and properties of multifunctional alkali-activated materials (AAMs). 2019 , 200, 474-489	55
497	The effects of polyaluminum chloride on the mechanical and microstructural properties of alkali-activated slag cement paste. 2019 , 96, 46-54	8
496	Recycling waste materials in geopolymer concrete. 2019 , 21, 493-515	53
495	Effect of activated silica on polymerization mechanism and strength development of MSWI bottom ash alkali-activated mortars. 2019 , 201, 90-99	27
494	Design and preparation of ultra-high performance concrete with low environmental impact. 2019 , 214, 633-643	70
493	Development of an eco-efficient CaMoO ₄ /electroconductive geopolymer composite for recycling silicomanganese slag and degradation of dye wastewater. 2019 , 208, 1476-1487	33
492	One year geopolymerisation of sodium silicate activated fly ash and metakaolin geopolymers. 2019 , 95, 98-110	38
491	Application of alkali-activated industrial waste. 2019 , 357-424	8
490	Internal curing of alkali-activated fly ash-slag pastes using superabsorbent polymer. <i>Cement and Concrete Research</i> , 2019 , 116, 179-190	10.3 48
489	Beneficiation of Oil Shale Processing Waste: Secondary Binder Phases in Alkali Activated Composites. 2019 , 10, 1407-1417	2
488	Renewable conversion of slag to graphene geopolymer for H ₂ production and wastewater treatment. 2020 , 355, 325-332	9

487	Effects of Alkali Activation and CO ₂ Curing on the Hydraulic Reactivity and Carbon Storage Capacity of BOF Slag in View of Its Use in Concrete. 2020 , 11, 3007-3020	2
486	Pore and strength characteristics of alkali-activated slag paste with seawater. 2020 , 72, 499-508	5
485	Corrosion resistance of steel reinforcements embedded in alkali activated ground granulated SiMn slag mortars. 2020 , 230, 116917	6
484	Application of central composite design to the optimization of fly ash-based geopolymers. 2020 , 230, 116960	5
483	Experimental study on performance improvement of anionic surfactant foaming agent by xanthan gum. 2020 , 230, 116993	7
482	Activation of Blast Furnace Slag with Soda Production Waste. 2020 , 32, 04019316	10
481	Properties of polyvinyl alcohol fiber reinforced fly ash based Engineered Geopolymer Composites with zeolite replacement. 2020 , 231, 117161	17
480	Incorporation of strontium and calcium in geopolymer gels. 2020 , 382, 121015	32
479	PVA- and PEG-assisted sol-gel synthesis of aluminosilicate precursors for N-A-S-H geopolymer cements. 2020 , 103, 859-877	5
478	Alkaline activation of low-reactivity ceramics: Peculiarities induced by the precursors' dual character. 2020 , 105, 103440	7
477	A bibliometric review of research on sustainable construction, 1994-2018. 2020 , 254, 120073	44
476	Microbiologically induced corrosion of concrete in sewer structures: A review of the mechanisms and phenomena. 2020 , 239, 117813	39
475	Electrical resistivity of fly ash and metakaolin based geopolymers. 2020 , 234, 117868	28
474	Nanostructure of CaO-(Na ₂ O)-Al ₂ O ₃ -SiO ₂ -H ₂ O Gels Revealed by Multinuclear Solid-State Magic Angle Spinning and Multiple Quantum Magic Angle Spinning Nuclear Magnetic Resonance Spectroscopy. 2020 , 124, 1681-1694	10
473	Reuse of hazardous electrolytic manganese residue: Detailed leaching characterization and novel application as a cementitious material. 2020 , 154, 104645	63
472	Mechanical Behaviour and Microstructural Investigation of Geopolymer Concrete After Exposure to Elevated Temperatures. 2020 , 45, 3843-3861	18
471	Promoting the performance of one-part alkali-activated slag using fine lead-zinc mine tailings. 2020 , 236, 117745	13
470	Manufacturing and durability of alkali activated mortars containing different types of glass waste as aggregates valorisation. 2020 , 237, 117733	10

469	Activation of Binary Binder Containing Fly Ash and Portland Cement Using Red Mud as Alkali Source and Its Application in Controlled Low-Strength Materials. 2020 , 32, 04019356	9
468	Development of Eco-Efficient Fly AshBased Alkali-Activated and Geopolymer Composites with Reduced Alkaline Activator Dosage. 2020 , 32, 04019350	12
467	Thermal behavior of alkali-activated fly ash/slag with the addition of an aerogel as an aggregate replacement. 2020 , 106, 103462	17
466	Relationship between aqueous chemistry and composition, structure, and solubility of sodium aluminosilicate hydrates. 2020 , 103, 2160-2172	4
465	Immobilization of cesium with alkali-activated blast furnace slag. 2020 , 388, 121765	28
464	Geopolymer foams: An overview of recent advancements. 2020 , 109, 100621	75
463	Enhanced Pb and Zn stabilization in municipal solid waste incineration fly ash using waste fishbone hydroxyapatite. 2020 , 118, 281-290	10
462	Synthesis of alkali activated slag-asphalt emulsion composite. 2020 , 263, 120256	4
461	Effect of porcelain tile polishing residue on eco-efficient geopolymer: Rheological performance of pastes and mortars. 2020 , 32, 101699	9
460	Gel composition and molecular structure of alkali-activated metakaolin-limestone cements. <i>Cement and Concrete Research</i> , 2020 , 137, 106211	10,3 10
459	Chloride diffusion and chloride-induced corrosion of steel embedded in natural pozzolan-based alkali activated concrete. 2020 , 262, 120669	5
458	A review on geopolymer in potential coating application: Materials, preparation and basic properties. 2020 , 32, 101734	20
457	Dynamics of confined water and its interplay with alkali cations in sodium aluminosilicate hydrate gel: insights from reactive force field molecular dynamics. 2020 , 22, 23707-23724	0
456	Thermal stability of one-part metakaolin geopolymer composites containing high volume of spodumene tailings and glass wool. 2020 , 114, 103792	27
455	Compressive strength and workability of high calcium one-part alkali activated mortars using response surface methodology. 2020 , 476, 012018	2
454	Exothermic behavior and drying shrinkage of alkali-activated slag concrete by low temperature-preparation method. 2020 , 262, 120056	8
453	Precipitation of calcium-alumino-silicate-hydrate gels: The role of the internal stress. 2020 , 153, 014501	5
452	Carbonation and Chloride Ions' Penetration of Alkali-Activated Materials: A Review. 2020 , 25,	1

451	Enhancement of alkali-activated slag cement concretes crack resistance for mitigation of steel reinforcement corrosion. 2020 , 166, 06001		7
450	Preparation, physico-mechanical characteristics and durability of eco-alkali-activated binder from blast-furnace slag, cement kiln-by-pass dust and microsilica ternary system. 2020 , 260, 119947		4
449	Experiment Research on the Mechanical Performance of Alkali-activated Slag Cementitious Material. 2020 , 768, 022030		
448	Effect of Burn Joss Paper Ash on Properties of Ground-Granulated Blast Furnace-Based Slag Geopolymer. 2020 , 10, 4877		0
447	Setting and Hardening Behaviour of Alkali-Activated Landfilled Fly Ash-Slag Binder at Room Temperature. 2020 , 13,		0
446	Development of sustainable alkali-activated slag grout for preplaced aggregate concrete. 2020 , 277, 123488		6
445	The role of zinc in metakaolin-based geopolymers. <i>Cement and Concrete Research</i> , 2020 , 136, 106194	10.3	41
444	Microstructural evolution in sulfate solutions of alkali-activated binders synthesized at various calcium contents. 2020 , 9, 10377-10385		4
443	Characterization of Fly Ash Alkali Activated Foams Obtained Using Sodium Perborate Monohydrate as a Foaming Agent at Room and Elevated Temperatures. 2020 , 7,		4
442	Leaching kinetics and reactivity evaluation of ferronickel slag in alkaline conditions. <i>Cement and Concrete Research</i> , 2020 , 137, 106202	10.3	15
441	Self-Sensing Alkali-Activated Materials: A Review. 2020 , 10, 885		11
440	Long-Term Behavior and Durability of Alkali-Activated Clay Mortars. 2020 , 13,		7
439	Mitigating the Drying Shrinkage and Autogenous Shrinkage of Alkali-Activated Slag by NaAlO. 2020 , 13,		3
438	Rheology of Alkali-Activated Mortars: Influence of Particle Size and Nature of Aggregates. 2020 , 10, 726		1
437	Engineering Properties of Waste Sawdust-Based Lightweight Alkali-Activated Concrete: Experimental Assessment and Numerical Prediction. 2020 , 13,		10
436	Quantitative Correlation between the Degree of Reaction and Compressive Strength of Metakaolin-Based Geopolymers. 2020 , 13,		5
435	Self-Sensing Properties of Green Alkali-Activated Binders with Carbon-Based NanoInclusions. 2020 , 12, 9916		10
434	Mechanical Characteristics of Geopolymer Mortar in Ambient Air and Immersion Curing. 2020 , 989, 012009		

433	Long-term performance of novel high-calcium one-part alkali-activated cement developed from thermally activated lime kiln dust. 2020 , 32, 101766	47
432	ZnO Nanoparticles for Photocatalytic Application in Alkali-Activated Materials. 2020 , 25,	3
431	Mitigating Portland Cement CO Emissions Using Alkali-Activated Materials: System Dynamics Model. 2020 , 13,	9
430	Predictive Model of Setting Times and Compressive Strengths for Low-Alkali, Ambient-Cured, Fly Ash/Slag-Based Geopolymers. 2020 , 10, 920	9
429	Role of Natural Stone Wastes and Minerals in the Alkali Activation Process: A Review. 2020 , 13,	8
428	The Durability of Alkali-Activated Materials in Comparison with Ordinary Portland Cements and Concretes: A Review. 2020 , 6, 695-706	54
427	Ag- or Cu-modified geopolymer filters for water treatment manufactured by 3D printing, direct foaming, or granulation. 2020 , 10, 7233	22
426	Green remediation by using low-carbon cement-based stabilization/solidification approaches. 2020 , 93-118	6
425	The Cannero Castle (Italy): Development of Radiocarbon Dating Methodologies in the Framework of the Layered Double Hydroxide Mortars. 2020 , 62, 617-631	8
424	Sulphuric Acid Resistance of Cementitious Materials: Multiscale Approach to Assessing the Degradation. 2020 , 32, 04020171	6
423	Mix design and mechanical properties of geopolymer and alkali activated concrete: Review of the state-of-the-art and the development of a new unified approach. 2020 , 256, 119380	41
422	Near-zero-waste processing of low-grade, complex primary ores and secondary raw materials in Europe: technology development trends. 2020 , 160, 104919	57
421	Water permeability of geopolymers emulsified with oil. <i>Cement and Concrete Research</i> , 2020 , 135, 1061080.3	2
420	Understanding the acting mechanism of NaOH adjusting the transformation of viscoelastic properties of alkali activated phosphorus slag. 2020 , 257, 119488	5
419	Hydration and soundness properties of phosphoric acid modified steel slag powder. 2020 , 254, 119319	20
418	Municipal Solid Waste Incineration Bottom Ash as Sole Precursor in the Alkali-Activated Binder Formulation. 2020 , 10, 4129	14
417	Applying grid nanoindentation and maximum likelihood estimation for N-A-S-H gel in geopolymer paste: Investigation and discussion. <i>Cement and Concrete Research</i> , 2020 , 135, 106112	10.3 24
416	Encapsulation of Sr-loaded titanate spent adsorbents in potassium aluminosilicate geopolymer. 2020 , 57, 1181-1188	3

4 ¹⁵	On the quantification of degrees of reaction and hydration of sodium silicate-activated slag cements. 2020 , 53, 1	4
4 ¹⁴	Advanced progress in recycling municipal and construction solid wastes for manufacturing sustainable construction materials. 2020 , 6, 100036	16
4 ¹³	Influence of NaOH content on the alkali conversion mechanism in MSWI bottom ash alkali-activated mortars. 2020 , 248, 118582	20
4 ¹²	Binding Properties of Mechanically Activated Nepheline Containing Mining Waste. 2020 , 10, 48	3
4 ¹¹	Performance evaluation of alkali-activated mortars containing industrial wastes as surface repair materials. 2020 , 30, 101234	14
4 ¹⁰	New insights into the early reaction of NaOH-activated slag in the presence of CaSO ₄ . 2020 , 198, 108207	43
4 ⁰⁹	Inhibition Effect of Tartrate Ions on the Localized Corrosion of Steel in Pore Solution at Different Chloride Concentrations. 2020 , 10, 105	4
4 ⁰⁸	Alkali-activated concretes based on high unburned carbon content fly ash: carbonation and corrosion performance. 2020 , 1-21	2
4 ⁰⁷	The Mechanical Properties of Alkali-Activated Slag-Silica Fume Cement Pastes by Mixing Method. 2020 , 14,	1
4 ⁰⁶	Magnesia in alkali activated cements. 2020 , 213-241	0
4 ⁰⁵	Factors affecting the slump and strength development of geopolymer concrete. 2020 , 261, 119945	18
4 ⁰⁴	Interpreting the early-age reaction process of alkali-activated slag by using combined embedded ultrasonic measurement, thermal analysis, XRD, FTIR and SEM. 2020 , 186, 107840	45
4 ⁰³	Steel fibre reinforced alkali-activated geopolymer concrete slabs subjected to natural gas explosion in buried utility tunnel. 2020 , 246, 118447	29
4 ⁰²	Thermal and compressive behaviors of fly ash and metakaolin-based geopolymer. 2020 , 30, 101307	21
4 ⁰¹	Degradation mechanisms of alkali-activated binders in sulfuric acid: The role of calcium and aluminum availability. 2020 , 246, 118477	10
4 ⁰⁰	Synthesis and characterization of self-healing geopolymer composite. 2020 , 245, 118432	13
3 ⁹⁹	Use of pretreatment to prevent expansion and foaming in high-performance MSWI bottom ash alkali-activated mortars. 2020 , 245, 118471	11
3 ⁹⁸	A ternary optimization of alkali-activated cement mortars incorporating glass powder, slag and calcium aluminate cement. 2020 , 240, 117983	20

397	Passivation and corrosion behavior of 2304 duplex stainless steel in alkali-activated slag materials. 2020 , 108, 103532	10
396	Feasibility study on using incineration fly ash from municipal solid waste to develop high ductile alkali-activated composites. 2020 , 254, 120168	29
395	Development and characterization of fly ash based PVA fiber reinforced Engineered Geopolymer Composites incorporating metakaolin. 2020 , 108, 103521	25
394	Influence of calcium hydroxide addition on arsenic leaching and solidification/stabilisation behaviour of metallurgical-slag-based green mining fill. 2020 , 390, 122161	19
393	Fracture toughness of sodium aluminosilicate hydrate (NASH) gels: Insights from molecular dynamics simulations. 2020 , 127, 165107	4
392	Advances in alkali-activation of clay minerals. <i>Cement and Concrete Research</i> , 2020 , 132, 106050	10.3 66
391	The combined use of admixtures for shrinkage reduction in one-part alkali activated slag-based mortars and pastes. 2020 , 248, 118682	28
390	Effect of Soda Residue Addition and Its Chemical Composition on Physical Properties and Hydration Products of Soda Residue-Activated Slag Cementitious Materials. 2020 , 13,	12
389	Alkali-silica reaction (ASR) in the alkali-activated cement (AAC) system: A state-of-the-art review. 2020 , 252, 119105	25
388	The effect of NaOH content on rheological properties, microstructures and interfacial characteristic of alkali activated phosphorus slag fresh pastes. 2020 , 252, 119132	6
387	Insight Into the Leaching of Sodium Alumino-Silicate Hydrate (N-A-S-H) Gel: A Molecular Dynamics Study. 2020 , 7,	7
386	Low-Carbon Concrete Based on Binary Biomass Ash-Silica Fume Binder to Produce Eco-Friendly Paving Blocks. 2020 , 13,	8
385	Improvement of mechanical strength of alkali-activated materials using micro low-alumina mine tailings. 2020 , 248, 118659	10
384	Drying shrinkage and permeability properties of fibre reinforced alkali-activated composites. 2020 , 251, 119076	13
383	Bond strength performance of ceramic, fly ash and GBFS ternary wastes combined alkali-activated mortars exposed to aggressive environments. 2020 , 251, 119088	23
382	Potential use of activated Algerian natural pozzolan powder as a cement replacement material. 2021 , 25, 967-987	3
381	Structural performance of ambient-cured reinforced geopolymer concrete beams with steel fibres. 2021 , 22, 457-475	6
380	Machine learning to predict properties of fresh and hardened alkali-activated concrete. 2021 , 115, 103863	16

379	A Roadmap for Production of Cement and Concrete with Low-CO ₂ Emissions. 2021 , 12, 4745-4775	6
378	Assessment of mechanical and microstructural properties of geopolymers produced from metakaolin, silica fume, and red mud. 2021 , 18, 262-274	10
377	Reusing coal ash of thermal power plant in a pavement base course. 2021 , 33, 346-354	2
376	Partial replacement of metakaolin with red ceramic waste in geopolymer. 2021 , 47, 3473-3483	19
375	Influence of various factors on properties of geopolymer paste: A comparative study. 2021 , 22, E315	2
374	Hydration mechanisms and durability of hybrid alkaline cements (HACs): A review. 2021 , 266, 121039	20
373	Early-stage geopolymerization revealed by ²⁷ Al and ²⁹ Si nuclear magnetic resonance spectroscopy based on vacuum dehydration. 2021 , 266, 121114	1
372	Compressive strength, modulus of elasticity and hardness of geopolymeric cement synthesized from non-calcined natural kaolin. 2021 , 280, 124293	6
371	Influence of steel slag on the properties of alkali-activated fly ash and blast-furnace slag based fiber reinforced composites. 2021 , 116, 103875	4
370	Recent advances in slag-based binder and chemical activators derived from industrial by-products □ A review. 2021 , 272, 121657	8
369	A new parameter influencing the reaction kinetics and properties of fly ash based geopolymers: A pre-rest period before heat curing. 2021 , 35, 102023	3
368	The use of waste glass as an activator in alkali-activated slag mortars. 2021 , 174, 120-130	1
367	Properties and microstructure of lithium-slag-based geopolymer by one-part mixing method. 2021 , 273, 121723	3
366	Carbon fiber reinforced geopolymer (FRG) mix design based on liquid film thickness. 2021 , 269, 121278	15
365	Long-term corrosion resistance of reinforcing steel in alkali-activated slag mortar after exposure to marine environments. 2021 , 179, 109175	14
364	Belite cements and their activation. <i>Cement and Concrete Research</i> , 2021 , 140, 106319	10.3 28
363	Performance of eco-friendly mortars made with alkali-activated slag and glass powder as a binder. 2021 , 270, 121457	10
362	Advances in multifunctional graphene-geopolymer composites. 2021 , 272, 121619	7

361	Alkali-silica reaction and strength of concrete with pretreated glass particles as fine aggregates. 2021 , 271, 121809	12
360	Approaches to enhance the carbonation resistance of fly ash and slag based alkali-activated mortar- experimental evaluations. 2021 , 280, 124321	8
359	Effect of Na ₂ O concentration and water/binder ratio on carbonation of alkali-activated slag/fly ash cements. 2021 , 269, 121258	11
358	Understanding the aqueous phases of alkali-activated slag paste under water curing. 2021 , 33, 59-73	8
357	Factors Affecting Kinetics and Gel Composition of Alkali-Silica Reaction in Alkali-Activated Slag Mortars. 2021 , 19, 453-462	0
356	Frost Resistance of Alkali-Activated Concrete—An Important Pillar of Their Sustainability. 2021 , 13, 473	10
355	Rheological Behaviour and Flow Properties of Alkali-Activated Materials. 2021 , 257-269	
354	Structural Behaviour of Reinforced Geopolymer Concrete Frame Under Lateral Loading. 2021 , 169-189	
353	Effects of carbon nanotubes and carbon nanofibers on properties of alkali-activated concretes. 2021 , 313-333	
352	Alkali activated porous material with nano graphene oxide as adsorbent in wastewater treatment. 2021 , 45, 4087-4090	1
351	Effect of Curing Temperature on the Alkali Activation of German Brown Coal Fly Ash. 2021 , 69-77	
350	Slag uses in making an ecofriendly and sustainable concrete: A review. 2021 , 272, 121942	34
349	Mechanical Behavior and Frost-Resistance of Alkali-Activated Cement Concrete with Blended Binder at Ambient Curing Condition. 2021 , 11, 52	6
348	Optimizing Precursors and Reagents for the Development of Alkali-Activated Binders in Ambient Curing Conditions. 2021 , 5, 59	6
347	Development of alkali activated crushed rock for environmentally sustainable roadway rehabilitation. 1-19	
346	Process Design for a Production of Sustainable Materials from Post-Production Clay. 2021 , 14,	3
345	Simple Model for Alkali Leaching from Geopolymers: Effects of Raw Materials and Acetic Acid Concentration on Apparent Diffusion Coefficient. 2021 , 14,	3
344	Unraveling the hardening mechanism during laser-induced slip casting of lithium aluminate-microsilica slurry. 2021 , 5, 100060	0

343	Study on the failure mechanism of geopolymeric recycled concrete using digital image correlation method. 1-20		4
342	Multi-walled carbon nanotube dispersion methodologies in alkaline media and their influence on mechanical reinforcement of alkali-activated nanocomposites. 2021 , 209, 108559		4
341	Effects of alkali dosage and silicate modulus on autogenous shrinkage of alkali-activated slag cement paste. <i>Cement and Concrete Research</i> , 2021 , 141, 106322	10.3	21
340	Performance and sustainability overview of sodium carbonate activated slag materials cured at ambient temperature. 2021 , 3, 100016		5
339	Recent advances in the reuse of steel slags and future perspectives as binder and aggregate for alkali-activated materials. 2021 , 281, 122605		16
338	Evaluating the performance of high volume fly ash-blended-cement mortar individually containing nano- and ultrafine micro-magnesia. 2021 , 36, 102129		5
337	Positive Influence of Liquid Sodium Silicate on the Setting Time, Polymerization, and Strength Development Mechanism of MSWI Bottom Ash Alkali-Activated Mortars. 2021 , 14,		6
336	Setting Time and Strength Monitoring of Alkali-Activated Cement Mixtures by Ultrasonic Testing. 2021 , 14,		6
335	Investigation of Microstructure and Thermomechanical Properties of Nano-TiO ₂ Admixed Geopolymer for Thermal Resistance Applications. 2021 , 30, 3642		2
334	Experimental and Numerical Investigation of Sodium- and Potassium-Based Alkali Activator on the Mechanical Properties of Geopolymer-Mortars Using Lebanese Kaolin. 2021 , 19, 1007-1020		1
333	Waste-derived activators for alkali-activated materials: A review. 2021 , 118, 103980		17
332	Geopolymer concrete durability subjected to aggressive environments [A review of influence factors and comparison with ordinary Portland cement. 2021 , 279, 122496		29
331	Silica-modifying chemical admixtures for directed zeolitization of metakaolin-based alkali-activated materials. <i>Cement and Concrete Research</i> , 2021 , 142, 106348	10.3	5
330	Valorization of rice husk ash and aluminum anodizing sludge as precursors for the synthesis of geopolymers. 2021 , 298, 126770		5
329	Investigation on effect of nanosilica dispersion on the properties and microstructures of fly ash-based geopolymer composite. 2021 , 282, 122690		7
328	Topological origin of phase separation in hydrated gels. 2021 , 590, 199-209		3
327	Alkali-activated concrete mixes with ground granulated blast furnace slag and paper sludge ash in seawater environments. 2021 , 20, 100380		10
326	Properties and Hydration Mechanism of Soda Residue-Activated Ground Granulated Blast Furnace Slag Cementitious Materials. 2021 , 14,		4

325	Utilization of mineral wools in production of alkali activated materials. 2021 , 283, 122790		2
324	Preparation of eco-friendly one-part geopolymers from gold mine tailings by alkaline hydrothermal activation. 2021 , 298, 126806		10
323	Effect of Rheology of Fresh Paste on the Pore Structure and Properties of Pervious Concrete Based on the High Fluidity Alkali-Activated Slag. 2021 , 11, 593		1
322	Cement Interfaces: Current Understanding, Challenges, and Opportunities. 2021 , 37, 6347-6356		8
321	Comparison on the properties of ITZs in fly ash-based geopolymer and Portland cement concretes with equivalent flowability. <i>Cement and Concrete Research</i> , 2021 , 143, 106392	10.3	28
320	Optimization of the processing parameters and characterization of hybrid geopolymer foam. 2021 ,		1
319	Towards Sustainable Soil Stabilization in Peatlands: Secondary Raw Materials as an Alternative. 2021 , 13, 6726		9
318	A review Behaviour of geopolymer concrete to high temperature. 2021 ,		1
317	Review on Performance Evaluation of Autonomous Healing of Geopolymer Composites. 2021 , 6, 94		3
316	Fresh and hardened properties of alkali-activated fly ash/slag binders: effect of fly ash source, surface area, and additives. 1-24		2
315	Influence of hydrated lime on mechanical and shrinkage properties of alkali-activated slag cement. 2021 , 289, 123201		5
314	Effect of coal ash and rice husk ash partial replacement in ordinary Portland cement on pervious concrete. 2021 , 286, 122947		18
313	Strength development and environmental assessment of alkali-activated construction and demolition waste fines as stabilizer for recycled road materials. 2021 , 289, 123017		11
312	Influence of the Precursor, Molarity and Temperature on the Rheology and Structural Buildup of Alkali-Activated Materials. 2021 , 14,		1
311	Improving elevated temperature performance of geopolymer concrete utilizing nano-silica, micro-silica and styrene-butadiene latex. 2021 , 286, 122980		11
310	Distinctive rheological and temporal viscoelastic behaviour of alkali-activated fly ash/slag pastes: A comparative study with cement paste. <i>Cement and Concrete Research</i> , 2021 , 144, 106441	10.3	16
309	Systematic multiscale models to predict the compressive strength of fly ash-based geopolymer concrete at various mixture proportions and curing regimes. 2021 , 16, e0253006		22
308	Durability and microstructure studies on Slag-Fly Ash-Glass powder based alkali activated pavement quality concrete mixes. 2021 , 287, 123047		7

307	Improvement of swelling chlorite soil using sodium silicate alkali activator. 2021 , 12, 1535-1544		1
306	Raman spectroscopy potentiality in the study of geopolymers reaction degree.		4
305	Research Progress on Carbonation Resistance of Alkali-Activated Slag Cement Concrete. 1036, 347-357		0
304	3D printing of dense and porous alkali-activated refractory wastes via Direct Ink Writing (DIW). 2021 , 41, 3798-3808		7
303	Mine tailings-based geopolymers: Properties, applications and industrial prospects. 2021 , 47, 17826-17843		23
302	Development and characterization of a new multi-strength level binder system using soda residue-carbide slag as composite activator. 2021 , 291, 123367		12
301	A parametric study of accelerated carbonation in alkali-activated slag. <i>Cement and Concrete Research</i> , 2021 , 145, 106454	10.3	7
300	Degradation of Alkali-Activated Slag and Fly Ash Mortars under Different Aggressive Acid Conditions. 2021 , 33,		8
299	The influence of nano CaCO ₃ on the mechanical performance of micro glass-reinforced geopolymer paste. 2021 , 14, 1		2
298	Early hydration, mechanical strength and drying shrinkage of low-carbon alkali-activated Ti-extracted residues-fly ash cement and mortars. 2021 , 293, 123517		5
297	Review on corrosion of steel reinforcement in alkali-activated concretes in chloride-containing environments. 2021 , 293, 123484		10
296	Clinkerless ultra-high strength concrete based on alkali-activated slag at high temperatures. <i>Cement and Concrete Research</i> , 2021 , 145, 106465	10.3	15
295	Effects of Expansive Additives on the Shrinkage Behavior of Coal Gangue Based Alkali Activated Materials. 2021 , 11, 816		5
294	Structural behavior of FRP grid reinforced geopolymer concrete sandwich wall panels subjected to concentric axial loading. 2021 , 270, 114117		4
293	Developing one-part alkali-activated metakaolin/natural pozzolan binders using lime waste. 2021 , 33, 342-356		28
292	Sulfuric acid degradation of alkali-activated metakaolin cements supplemented with brucite. 2021 , 121, 104063		2
291	Reusing electrolytic manganese residue as an activator: The effect of calcination on its mineralogy and activity. 2021 , 294, 123533		3
290	Alkali-Activation of Synthetic Aluminosilicate Glass With Basaltic Composition. 2021 , 9, 715052		2

289	Physico-mechanical and microstructural properties of sodium sulfate activated materials: A review. 2021 , 295, 123668	2
288	Rheology of alkali-activated materials: A review. 2021 , 121, 104061	30
287	Environmental potential assessment of MSWI bottom ash-based alkali-activated binders. 2021 , 416, 125828	3
286	Enhancing Burnability Characteristics of Low-Temperature Burnt-Cement Clinker by Recycling Phosphogypsum Wastes. 2021 , 33, 04021250	
285	Reactive binder and aggregate interfacial zones in the mortar of Tomb of Caecilia Metella concrete, 1C BCE, Rome.	2
284	Slag Fly Ash Glass Powder-Based Alkali-Activated Concrete A Critical Review. 2022 , 293-309	
283	A preliminary investigation of a novel mortar based on alkali-activated seashell waste powder. 2021 , 389, 471-481	8
282	A Study of Innovative Alkali-Activated Binders for Soil Stabilisation in the Context of Engineering Sustainability and Circular Economy. 1	2
281	The sustainable utilization of weathered cement kiln dust in the cleaner production of alkali activated binder incorporating glass sludge. 2021 , 300, 124308	4
280	Formulating eco-friendly geopolymer foam concrete by alkali-activation of ground brick waste. 2021 , 325, 129180	9
279	Sodium hydroxide substitution in slag activating mixes: A potential pathway to more sustainable slag-based binders. 2021 , 300, 124183	0
278	Reactive MgO-modified slag-based binders for cemented paste backfill and potential heavy-metal leaching behavior. 2021 , 298, 123894	7
277	Sulfate-bearing clay and Pietra Serena sludge: Raw materials for the development of alkali activated binders. 2021 , 301, 124030	0
276	Alkali-activated limestone/metakaolin cements exposed to high temperatures: Structural changes. 2021 , 122, 104147	2
275	An Innovative Method for Sustainable Utilization of Blast-Furnace Slag in the Cleaner Production of One-Part Hybrid Cement Mortar. 2021 , 14,	0
274	Iron and Aluminium Production Wastes as Exclusive Components of Alkali Activated Binders Towards a Sustainable Alternative. 2021 , 13, 9938	2
273	Early hydration kinetics and microstructure development of hybrid alkali activated cements (HAACs) at room temperature. 2021 , 123, 104200	1
272	Effect of superabsorbent polymers and expansive additives on the shrinkage of alkali-activated slag. 2021 , 123, 104218	5

271	Alkali-activated laterite binders: Influence of silica modulus on setting time, Rheological behaviour and strength development. 2021 , 4, 100175		1
270	Use of steel slag as sustainable construction materials: A review of accelerated carbonation treatment. 2021 , 173, 105740		32
269	Effect of combined activator of Ca(OH) ₂ and Na ₂ CO ₃ on workability and compressive strength of alkali-activated ferronickel slag system. 2021 , 123, 104179		8
268	Mechanical performance and microstructure improvement of soda residue-carbide slag-ground granulated blast furnace slag binder by optimizing its preparation process and curing method. 2021 , 302, 124403		7
267	Reuse of waste glass powder in alkali-activated metakaolin/fly ash pastes: Physical properties, reaction kinetics and microstructure. 2021 , 173, 105721		17
266	Autogenous shrinkage and hydration property of alkali activated slag pastes containing superabsorbent polymer. <i>Cement and Concrete Research</i> , 2021 , 149, 106581	10.3	17
265	Matrix wettability and mechanical properties of geopolymer cement-polydimethylsiloxane (PDMS) hybrids. 2021 , 124, 104268		5
264	Using graphene oxide to improve physical property and control ASR expansion of cement mortar. 2021 , 307, 125006		5
263	Performance evaluation of basalt fiber-reinforced geopolymer composites with various contents of nano CaCO ₃ . 2021 , 47, 29949-29959		4
262	A review on strength development of high performance concrete. 2021 , 307, 124865		3
261	Understanding geopolymer binder-aggregate interfacial characteristics at molecular level. <i>Cement and Concrete Research</i> , 2021 , 149, 106582	10.3	5
260	Characterization of Microstructural Variations in Alkali-Activated Coal Fly Ashes Depending on Their Intrinsic Properties. 2021 , 33, 04021299		0
259	Mechanical properties of high ductile alkali-activated fiber reinforced composites with different curing ages. 2021 , 306, 124833		2
258	Impact of fiber reinforcements on properties of geopolymer composites: A review. 2021 , 44, 102628		15
257	Co-solidification of bauxite residue and coal ash into indurated monolith via ambient geopolymerisation for in situ environmental application. 2022 , 422, 126925		2
256	A review on characteristics of silico-manganese slag and its utilization into construction materials. 2022 , 176, 105946		4
255	Calorimetric study of geopolymer binders based on natural pozzolan. 2017 , 127, 2181		1
254	Setting controlling of lithium slag-based geopolymer by activator and sodium tetraborate as a retarder and its effects on mortar properties. 2020 , 110, 103598		20

253	Natural carbonation-induced phase and molecular evolution of alkali-activated slag: Effect of activator composition and curing temperature. 2020 , 248, 118726	13
252	Microstructural characterisation of hybrid cement after exposure to high temperatures. 2020 , 262, 120843	7
251	Effect of sulfate activator on mechanical and durability properties of concrete incorporating low calcium fly ash. 2020 , 13, e00407	5
250	Rheology of Cementitious Materials: Alkali-Activated Materials or Geopolymers. 2018 , 149, 01002	1
249	Effects of Composition and Activator Type on Glass-Based Geopolymers. 2019 , 116,	3
248	Influence of various additives on the early age compressive strength of sodium carbonate activated slag composites: An overview. 2020 , 29, 106-113	7
247	Performance of a Fly Ash Geopolymeric Based Binder with Calcium Hydroxide, Portland Cement and Metakaolin as Additives. 2018 , 12, 167-186	3
246	Application of a clay-slag geopolymer matrix for repairing damaged concrete: Laboratory and industrial-scale experiments. 2017 , 59, 929-937	4
245	Compressive Strength of Metakaolin-Based Geopolymers: Influence of KOH Concentration, Temperature, Time and Relative Humidity. 2016 , 07, 772-791	5
244	Metallurgical Waste. 2021 , 261-281	
243	Mechanical and fracture behaviour of micro steel fibre-reinforced fly ash-based geopolymer paste containing nano CaCO ₃ . 2021 , 15, 391-406	1
242	EFFECT OF THE CURING CONDITIONS ON THE CHARACTERISTICS OF CITROGYPSUM-CONTAINING ALKALI-ACTIVATED BINDERS. 2021 , 4, 24-34	
241	Mechanical properties of high ductile alkali-activated fiber reinforced composites incorporating red mud under different curing conditions. 2021 ,	2
240	Calorimetric Studies of Alkali-Activated Blast-Furnace Slag Cements at Early Hydration Processes in the Temperature Range of 20-80 °C. 2021 , 14,	0
239	Portland Versus Alkaline Cement: Continuity or Clean Break: "A Key Decision for Global Sustainability". 2021 , 9, 705475	8
238	Mineralogy and glass content of Fe-rich fayalite slag size fractions and their effect on alkali activation and leaching of heavy metals. 2021 , 3, 287	0
237	Degradation of Shotcrete Materials Subjected to Sulfate and Chloride Attack in Varying Exposure Regimes. 2021 , 2021, 1-11	
236	Municipal Solid Waste Incineration Ash-Incorporated Concrete: One Step towards Environmental Justice. 2021 , 11, 495	3

235	Influence of the NaOH-treated hemp fibres on the properties of fly-ash based alkali-activated mortars prior and after wet/dry cycles. 2021 , 309, 125072	4
234	PRELIMINARY MIX DESIGN PROCEDURE FOR ALKALI ACTIVATED CEMENT MORTARS BASED ON METAKAOLIN AND INDUSTRIAL WASTE PRODUCTS ACTIVATED WITH POTASIUUM SILICATE. 209-223	
233	Influential Parameters in Rheology of Alkali-Activated Binders. 2020 , 117,	
232	Effect of Different NaOH Solution Concentrations on Mechanical Properties and Microstructure of Alkali-Activated Blast Furnace Ferronickel Slag. 2021 , 11, 1301	0
231	Influence of the addition of amorphous and crystalline silica on the structural properties of metakaolin-based geopolymers. 2021 , 215, 106312	6
230	Strength behavior and autogenous shrinkage of alkali-activated mortar made from low-calcium fly ash and calcium carbide residue mixture. 2021 , 312, 125438	1
229	Influence of Alkaline ratios on strength properties of Fly ash-Ground Granulated Blast Furnace Slag Based Geopolymer Mortars. 998, 012055	2
228	Caracterizao estrutural de geopolmeros sustentveis de escria de aciria LD e escria de aciria LF com KOH. 2020 , 25,	1
227	Research Progress in Corrosion Mechanism of Reinforced Alkali-Activated Concrete Structures. 2021 , 2, 641-656	1
226	Effect of Waste Ceramic Powder on the Properties of Alkali-Activated Slag and Fly Ash Pastes Exposed to High Temperature. 2021 , 13,	0
225	Mechanical, Fracture, and Microstructural Assessment of Carbon-Fiber-Reinforced Geopolymer Composites Containing NaO. 2021 , 13,	5
224	The application of experimental design models in order to optimize the synthesis of geopolymers. 2018 , 149, 01029	1
223	EFFECTS OF COMPOSITION OF FLY ASH-BASED ALKALI-ACTIVATED MATERIALS ON COMPRESSIVE STRENGTH: A REVIEW. 2020 , 9-23	0
222	Influence of the Curing Temperatures on the Mechanical Properties of Hemp Fibre-Reinforced Alkali-Activated Mortars. 2021 , 245-252	0
221	Application of machine learning in the prediction of compressive, and shear bond strengths from the experimental data in oil well cement at 80 °C. Ensemble trees boosting approach. 2022 , 317, 125778	0
220	Fatigue behavior of steel fiber reinforced geopolymer concrete. 2022 , 16, e00829	
219	Effect of bottom ash waste on the rheology and durability of alkali activation pastes. 2022 , 16, e00790	0
218	Development and use of geopolymers for energy conversion: An overview. 2021 , 315, 125774	2

217	Mechanical, microstructure and reaction process of calcium carbide slag-waste red brick powder based alkali-activated materials (CWAAMs). 2021 , 331, 129845	3
216	Compatibility of different fibres with red mud-based geopolymer grouts. 2021 , 315, 125742	1
215	Chemical and mechanical properties of geopolymer concrete incorporated with cigarette filters. 2021 , 899, 012043	0
214	Factors Affecting the Compressive Strength of Geopolymers: A Review. 2021 , 11, 1317	4
213	Synthesis, application and unique effects of RGOEP on properties of alkali-activated slag binders. 2021 , 313, 125555	0
212	A Binder Prepared by Low-Reactivity Blast Furnace Slags for Cemented Paste Backfill: Influence of Super-Fine Fly Ash and Chemical Additives.	
211	A review on the durability performance of alkali-activated binders subjected to chloride-bearing environment. 2022 , 317, 125947	0
210	The effect of curing regimes on physico-mechanical, microstructural and durability properties of alkali-activated materials: A review. 2022 , 321, 126335	3
209	Reaction mechanism of sulfate attack on alkali-activated slag/fly ash cements. 2022 , 318, 126052	3
208	Electron Trapping and Ion Leaching at the Li-Modified Quartz/Water Interface. 2020 , 124, 26741-26747	0
207	Optimization of production parameters of alkali-activated concrete. 2022 , 89-106	
206	Chloride penetration in alkali-activated concrete. 2022 , 431-450	1
205	Sustainable alkali-activated materials. 2022 , 489-508	
204	Review on the Application of Supplementary Cementitious Materials in Self-Compacting Concrete. 2022 , 12, 180	3
203	Sustainable utilization of slags. 2022 , 321-341	
202	Fracture Behavior of Long Fiber Reinforced Geopolymer Composites at Different Operating Temperatures.. 2022 , 15,	4
201	A Study on the Use of Red Mud Waste as a Replacement for Fly Ash to Prepare Engineered Cementitious Composites.	
200	State of the art of geopolymers: A review. 2022 , 22, 108-124	4

199	Flexural behaviour of geopolymer concrete beams reinforced with BFRP and GFRP polymer composites. 136943322110542	0
198	Evaluation of the Effect of Granite Waste Powder by Varying the Molarity of Activator on the Mechanical Properties of Ground Granulated Blast-Furnace Slag-Based Geopolymer Concrete.. 2022, 14,	3
197	Microstructural and mechanical properties of geopolymers based on brick scrap and fly ash.	1
196	Mechanical and environmental characteristics of red mud geopolymers. 2022, 321, 125564	1
195	Recycling of waste cathode ray tube glass through fly ash-slag geopolymer mortar. 2022, 322, 126454	2
194	Effect of mixed fibers on fly ash-based geopolymer resistance against carbonation. 2022, 322, 126394	1
193	Development of drying shrinkage model for alkali-activated slag concrete. 2022, 323, 126556	3
192	Evaluation of rheology and strength development of alkali-activated slag with different silicates sources. 2022, 128, 104415	1
191	Mechanical anisotropy evolution of 3D-printed alkali-activated materials with different GGBFS/FA combinations. 2022, 50, 104126	1
190	Effects of key factors on the compressive strength of metakaolin and limestone powder-based alkali-activated concrete mixtures: An experimental and statistical study. 2022, 16, e00915	1
189	A review on the porous geopolymer preparation for structural and functional materials applications.	3
188	Systematical investigation of rheological performance regarding 3D printing process for alkali-activated materials: Effect of precursor nature. 2022, 128, 104450	0
187	Properties of Cementitious Repair Materials for Concrete Pavement. 2022, 2022, 1-17	0
186	Fresh and Mechanical Characteristics of Eco-efficient Geopolymer Concrete Incorporating Nano-silica: An Overview. 64-74	5
185	Compressive Strength of Sustainable Geopolymer Concrete Composites: A State-of-the-Art Review. 2021, 13, 13502	22
184	Intrinsic Sulfuric Acid Resistance of C-(N)-A-S-H and N-A-S-H Gels Produced by Alkali-Activation of Synthetic Calcium Aluminosilicate Precursors.	
183	Influence of the Type and Concentration of the Activator on the Microstructure of Alkali Activated Simn Slag Pastes.	
182	Durability Performance of Geopolymer Concrete: A Review.. 2022, 14,	4

181	Alkali Activation of Ground Granulated Blast Furnace Slag and Low Calcium Fly Ash Using One-Part Approach. 2022 , 8, 511-521	0
180	Sustainable activator: the usability of anodizing cleaning solution for the synthesis of alkali-activated soil-fly ash. 1-17	1
179	The Effect of Slag on the Mechanical Properties of Coralline-Activated Materials and the Formation and Transformation of Mineral Crystals. 2022 , 12, 470	0
178	A Comparative Study on the Degradation of Alkali-Activated Slag/Fly Ash and Cement-Based Mortars in Phosphoric Acid. 2022 , 9,	0
177	Effect of Admixtures on Durability and Physical-Mechanical Properties of Alkali-Activated Materials.. 2022 , 15,	0
176	Monitoring temperature-induced in-situ nanomechanical changes of cement paste by nanoindentation. 1	0
175	Recycling waste materials to produce self-sensing concretes for smart and sustainable structures: A review. 2022 , 325, 126658	3
174	Utilization of waste Cappadocia earth as a natural pozzolan in alkali activation: A parametric study. 2022 , 329, 127192	0
173	Review on chloride transport in alkali-activated materials: Role of precursors, activators and admixtures. 2022 , 328, 127081	0
172	Alteration in molecular structure of alkali activated slag with various water to binder ratios under accelerated carbonation.. 2022 , 12, 5524	0
171	A binder prepared by low-reactivity blast furnace slags for cemented paste backfill: Influence of super-fine fly ash and chemical additives. 2022 , 327, 126988	1
170	Capturing the early-age physicochemical transformations of alkali-activated fly ash and slag using ultrasonic pulse velocity technique. 2022 , 104529	0
169	The role of dissolved rice husk ash in the development of binary blast furnace slag-sewage sludge ash alkali-activated mortars. 2022 , 104472	
168	A study on geopolymer composites based on waste from wind turbine blades. 2022 , 53, 467-478	0
167	Fly Ash Application as Supplementary Cementitious Material: A Review.. 2022 , 15,	7
166	Effect of high temperature heating on the microstructure and performance of cesium-based geopolymer reinforced by cordierite. 2022 , 129, 104474	0
165	Structural transition to well-ordered phases of NaOH-activated slag-metakaolin cements aged by 6 years. <i>Cement and Concrete Research</i> , 2022 , 156, 106791	10.3 1
164	Heat release characteristics of lime and time-dependent rheological behaviors of lime-activated fly ash pastes. 2022 , 16, e01043	1

163	Compressive strength of geopolymer concrete modified with nano-silica: Experimental and modeling investigations. 2022 , 16, e01036	2
162	Molarity activity effect on mechanical and microstructure properties of geopolymer concrete: A review. 2022 , 16, e01014	1
161	Adoption of alkali-activated cement-based binders (geopolymers) from industrial by-products for sustainable construction of utility buildings-A field demonstration. 2022 , 52, 104450	1
160	Self-Compacting Alkali-Activated Materials: Progress and Perspectives.. 2021 , 27,	0
159	Alternative Clinker Technologies for Reducing Carbon Emissions in Cement Industry: A Critical Review.. 2021 , 15,	2
158	Hydration Characteristics and Microstructure of Alkali-Activated Slag Concrete: A Review. 2021 ,	5
157	Calcined Cutter Soil Mixing Residue-Based Alkali-Activated Cement: Compressive Strengths, Reaction Products, and Sustainability. 2022 , 10, 288-304	1
156	Effect of Sodium Hydroxide, Liquid Sodium Silicate, Calcium Hydroxide, and Slag on the Mechanical Properties and Mineral Crystal Structure Evolution of Polymer Materials. 2021 , 11, 1586	2
155	RSM-based Optimized Mix Design of Alkali-activated Slag Pastes Based on the Fresh and Hardened Properties and Unit Cost. 2022 , 20, 300-312	0
154	Use of Carbonation Treatment on Steel Slag for Activity Improvement and Co2 Capture.	
153	Temperature-Dependent Compressive Stress-Strain Behaviors of Alkali-Activated Slag-Based Ultra-High Strength Concrete.	
152	Durability Properties of Admixture of Fly Ash, Bottom Ash and GBFS. 2022 , 675-696	
151	Mechanical Performance of Polymeric ARGF-Based Fly Ash-Concrete Composites: A Study for Eco-Friendly Circular Economy Application.. 2022 , 14,	1
150	Cracking resistance and sustainability assessment of alkali-activated slag concrete incorporating lightweight aggregate. 2022 , 131, 104556	1
149	Green Protective Geopolymer Coatings: Interface Characterization, Modification and Life-Cycle Analysis. 2022 , 15, 3767	2
148	Soft computing models to predict the compressive strength of GGBS/FA- geopolymer concrete. 2022 , 17, e0265846	0
147	Proposing several model techniques including ANN and MSP-tree to predict the compressive strength of geopolymer concretes incorporated with nano-silica.	0
146	Stability of superplasticizer on NaOH activators and influence on the rheology of alkali-activated fly ash fresh pastes. 2022 , 341, 127864	0

- 145 Enhancing the resistance to microbial induced corrosion of alkali-activated glass powder/GGBS mortars by calcium aluminate cement. **2022**, 341, 127912 0
- 144 An exploratory study on using red mud waste as a replacement for fly ash to prepare Engineered Cementitious Composites. **2022**, 342, 127900 0
- 143 Effect of Seawater on Hydration and Sulfate Resistance of Noncement Mortars. **2022**, 34, 127901 0
- 142 Study of Triethanolamine on Regulating Early Strength of Fly Ash-Based Chemically Foamed Geopolymer. 0
- 141 Preparation and Properties of Municipal Solid Waste Incineration Alkali-Activated Lightweight Materials through Spontaneous Bubbles. **2022**, 14, 2222 0
- 140 Effects of Fibre Type on the Performance of Fibre-Reinforced Alkali-Activated Slag Concrete. **2023**, 337-344 0
- 139 Multivariable models including artificial neural network and MSP-tree to forecast the stress at the failure of alkali-activated concrete at ambient curing condition and various mixture proportions. 0
- 138 Characteristics and mechanism of efflorescence in fly ash-based geopolymer mortars under quasi-natural condition. **2022**, 55, 104708 2
- 137 Stress-strain behavior of low-carbon concrete activated by soda residue-calcium carbide slag under uniaxial and triaxial compression. **2022**, 55, 104678 0
- 136 Impacts of milling duration on construction and demolition waste (CDW) based precursor and resulting geopolymer: Reactivity, geopolymerization and sustainability. **2022**, 184, 106433 0
- 135 Evaluation Study on the Structural Behaviour of Fly Ash-Based Geopolymer at Elevated Temperatures - A Review. **2022**, 29-38 0
- 134 Assessing the Individual Impact of Magnesia and Titania Nano- Particles on the Performance of Alkali-Activated Slag Mortars. 0
- 133 Optimization of Alkaline Activator on the Strength Properties of Geopolymer Concrete. **2022**, 14, 2434 1
- 132 Microstructural and ²⁹Si and ²⁷Al MAS NMR spectroscopic evaluations of alkali cation and curing effects on Class C fly ash-based geopolymer. **2022**, 100898 0
- 131 A molecular dynamics study of NASH gel with various Si/Al ratios. 0
- 130 Properties and microstructure of self-waterproof metakaolin geopolymer with silane coupling agents. **2022**, 342, 128045 2
- 129 Factors affecting production and properties of self-compacting geopolymer concrete A review. **2022**, 344, 128174 0
- 128 Setting behavior and mechanical properties of concrete rubble fly ash geopolymers. **2022**, 11, 100286 0

127	Multistep nucleation and growth mechanism of aluminosilicate gel observed by cryo-electron microscopy. <i>Cement and Concrete Research</i> , 2022 , 159, 106873	10.3	0
126	Electrochemical oxidation of recycled carbon fibers for an improved interaction toward alkali-activated composites. 2022 , 133093		1
125	Utilization of APC residues from sewage sludge incineration process as activator of alkali-activated slag/glass powder material. 2022 , 104680		0
124	Influence of the type and concentration of the activator on the microstructure of alkali activated SiMn slag pastes. 2022 , 342, 128067		0
123	Geopolymer concrete as a cleaner construction material: An overview on materials and structural performances. 2022 , 5, 100111		3
122	Green clinker-free binders: Simultaneous immobilization and carbonation of ferrous metallurgical residues activated by sulfur wastes. 2022 , 346, 128473		0
121	Recycling of calcined carbonated cement pastes as cementitious materials: Proposed CCUS technology for calcium looping. 2022 , 10, 108247		0
120	Multi-scale reinforcement of multi-walled carbon nanotubes / polyvinyl alcohol fibers on lightweight engineered geopolymer composites. 2022 , 57, 104889		
119	Influence of K ⁺ and CO ₂ in activator on high-temperature performance of alkali-activated slag-ceramic powder binary blends. 2022 , 17, e01306		0
118	Diffuse Reflectance Infrared Fourier Transform Spectroscopy (DRIFTS) as a potential on site tool to test geopolymerization reaction. 2022 , 250, 123721		1
117	Solidification/stabilization of gold ore tailings powder using sustainable waste-based composite geopolymer. 2022 , 106793		0
116	Biogenic Corrosion of Cementitious Composite in Wastewater Sewerage System-A Review. 2022 ,		1
115	Improvement of Mechanical Properties and Condensation Behavior for Alkali-Activated Materials by Sodium Silicate. 2022 , 12, 1018		
114	A review on suitability of using geopolymer concrete for rigid pavement. 2022 , 7,		0
113	Engineering performance and microstructure characteristics of natural marine sediment stabilized with quicklime-activated GGBS under different lime proportions. 1-15		0
112	Optimizing the Performance of Geopolymer Mortar Based on Flowability, Strength, and Durability Properties. 2022 , 11, 20210141		
111	Retention Mechanism of Cesium in Chabazite Embedded into Metakaolin-Based Alkali Activated Materials. 2022 , 129732		0
110	Effect of Ultrafine Fly Ash and Water Glass Content on the Performance of Phosphorus Slag-Based Geopolymer. 2022 , 15, 5395		

109	Synergistic effects of steel slag and wet grinding on ambient cured ground granulated blast furnace slag activated by sodium sulfate. 2022 , 349, 128661	1
108	Fresh and hardened properties of alkali-activated slag concrete: The effect of fly ash as a supplementary precursor. 2022 , 370, 133362	1
107	Steel slag for carbon fixation and synthesis of alkali-activated material. 2022 , 351, 128959	0
106	Co-disposal of semi-dry desulfurization residue and red mud into high performance alkali activated material. 2022 , 350, 128776	
105	Durability characteristics of geopolymer concrete - Progress and perspectives. 2022 , 59, 105100	
104	High temperature exposure of alkali-activated coal fly ashes. 2022 , 59, 105081	
103	Synergetic effect of nano-silica fume for enhancing physico-mechanical properties and thermal behavior of MK-geopolymer composites. 2022 , 350, 128879	0
102	Durability of alkali-activated Fe-rich fayalite slag-based mortars subjected to different environmental conditions. 2022 , 162, 106984	0
101	Calcium and magnesium silicate hydrates formed in the presence of sodium hydroxide: Insight from experiments and DFT simulation. 2022 , 33, 104362	0
100	Surface chemistry of alkali-activated materials and how to modify it. 2022 , 113-140	0
99	Alkali-activated materials as adsorbents for water and wastewater treatment. 2022 , 143-166	0
98	Effects of K ⁺ and CO ₃ ²⁻ on the performance of slag-ceramic blended geopolymers. 2023 , 117, 107816	0
97	Coagulation Mechanism and Compressive Strength Characteristics Analysis of High-Strength Alkali-Activated Slag Grouting Material. 2022 , 14, 3980	0
96	Molecular Insights into the Reaction Process of Alkali-Activated Metakaolin by Sodium Hydroxide. 2022 , 38, 11337-11345	1
95	Synthesis of Inorganic Polymeric Materials from Industrial Solid Waste.	1
94	Mechanical Properties and Microstructure of Alkali-Activated Soda Residue-Blast Furnace Slag Composite Binder. 2022 , 14, 11751	0
93	Early-Stage Geopolymerization Process of Metakaolin-Based Geopolymer. 2022 , 15, 6125	0
92	Recent progress in understanding setting and hardening of alkali-activated slag (AAS) materials. 2022 , 104795	3

91	Mitigating plastic shrinkage cracking in alkali-activated slag systems by internal curing with superabsorbent polymers. 2022 , 134, 104784	1
90	Development of eco-friendly alkali-activated nanocomposites comprising micro-fibers at ambient curing conditions. 2022 , 17, e01540	0
89	Development of solid waste-based self-insulating material with high strength and low thermal conductivity. 2022 ,	0
88	Design of sustainable geopolymetric matrices for encapsulation of treated radioactive solid organic waste. 9,	0
87	Geopolymer: A Systematic Review of Methodologies. 2022 , 15, 6852	2
86	Effect of hydration assemblage on the autogenous shrinkage of alkali-activated slag mortars. 1-43	0
85	Temperature-dependent compressive stress-strain behaviors of alkali-activated slag-based ultra-high strength concrete. 2022 , 357, 129250	0
84	Tensile creep behavior of Alkali-activated slag concrete incorporating lightweight aggregate. 2022 , 357, 129318	0
83	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. 2022 , 357, 129397	2
82	Study of triethanolamine on regulating early strength of fly ash-based chemically foamed geopolymer. 2022 , 162, 107005	0
81	Solidification/stabilization of lead-contaminated soils by phosphogypsum slag-based cementitious materials. 2023 , 857, 159552	0
80	High-ductile engineered geopolymer composites (EGC) prepared by calcined natural clay. 2023 , 63, 105456	0
79	Effect of washing aggregate sludge waste on the properties of alkali-activated blast furnace slag. 2023 , 63, 105527	0
78	Engineered geopolymer composites: A state-of-the-art review. 2022 , 104850	1
77	Mechanical Properties and Coagulation Characteristics of Flue Gas Desulfurization Gypsum-Based Polymer Materials. 2022 , 14, 4761	0
76	Atomic-scale characterisation of sodium aluminosilicate hydrates (N-A-S-H) and Mg-substituted N(-M)-A-S-H using XANES. 2022 , 105515	0
75	Investigating the hydration characteristics of a new composite cementitious binder containing of slag and calcite. 2022 , 361, 129629	0
74	Effect of limestone on engineering properties of alkali-activated concrete: A review. 2023 , 362, 129709	0

- 73 Geopolymer-based grinding stones utilizable in metal machining. **2023**, 363, 129869 ○
- 72 Effects of sodium citrate on compressive strength and microstructure of NaOH-activated fly ash/slag cement exposed to high temperature. **2023**, 363, 129852 ○
- 71 Effect of waste oyster shell powder on the properties of alkali-activated slag/waste ceramic geopolymers. **2023**, 22, 1768-1780 ○
- 70 Antibacterial performance of electrodeposited Cu@Cu₂O coatings on concrete using printed circuit board wastewater. **2023**, 383, 135373 ○
- 69 Experimental study on dynamic mechanical properties of fly ash and slag based alkali-activated concrete. **2023**, 364, 129912 ○
- 68 Assessing the individual impact of magnesia and titania nano- particles on the performance of alkali-activated slag mortars. **2023**, 365, 130103 ○
- 67 Lithium slag-based geopolymer synthesized with hybrid solid activators. **2023**, 365, 130070 ○
- 66 The intrinsic role of network modifiers (Ca versus Mg) in the reaction kinetics and microstructure of sodium silicate-activated CaO-MgO-Al₂O₃-SiO₂ glasses. **2023**, 164, 107058 ○
- 65 Protection of galvanized steel using benzotriazole as a corrosion inhibitor in simulated concrete pore solution and alkali-activated fly ash solution. **2023**, 136, 104880 ○
- 64 Intrinsic sulfuric acid resistance of C-(N)-A-S-H and N-A-S-H gels produced by alkali-activation of synthetic calcium aluminosilicate precursors. **2023**, 165, 107068 ○
- 63 Use of Saline Water in Cemented Fine Tailings Backfill with One-Part Alkali-Activated Slag. **2023**, 35, ○
- 62 One-Part Alkali-Activated Materials: State of the Art and Perspectives. **2022**, 14, 5046 ○
- 61 Mechanical Properties and Microstructure of Iron Tailings Cemented Paste Backfills Using Carbide Slag-Activated Ground Granulated Blast-Furnace Slag as Alternative Binder. **2022**, 12, 1549 1
- 60 Research and Development of Red Mud and Slag Alkali Activation Light Filling Materials Preparation by Ultra-High Water Content and Analysis of Microstructure Formation Mechanism. **2022**, 14, 5176 ○
- 59 Effects of Particle Size Distribution on the Performance of Calcium Carbonate Concrete. **2022**, 20, 691-702 1
- 58 A Comprehensive Review of Self-Healing Polymer, Metal, and Ceramic Matrix Composites and Their Modeling Aspects for Aerospace Applications. **2022**, 15, 8521 2
- 57 Nano-scale study on molecular structure, thermal stability, and mechanical properties of geopolymer. ○
- 56 Influence of Activation Parameters on the Mechanical and Microstructure Properties of an Alkali-Activated BOF Steel Slag. **2022**, 12, 12437 ○

55	Low Carbon Alkali-Activated Slag Binder and Its Interaction with Polycarboxylate Superplasticizer: Importance of Microstructural Design of the PCEs. 2022 , 10, 17241-17251	0
54	Recycling of high-volume waste glass powder in alkali-activated materials: An efflorescence mitigation strategy. 2022 , 105756	0
53	Investigation on the Carbonation Behavior of Alkali-Activated Pastes Served under Windy Environments. 2023 , 16, 825	0
52	Properties and Cementation Mechanism of Geopolymer Backfill Paste Incorporating Diverse Industrial Solid Wastes. 2023 , 16, 480	1
51	Durability of cementitious materials in seawater environment: A review on chemical interactions, hardened-state properties and environmental factors. 2023 , 367, 130224	0
50	Alkali activation of recycled concrete and aluminum salt slag aggregates for semi-rigid column inclusions. 2023 , 366, 130106	0
49	Effects of the phosphogypsum on the hydration and microstructure of alkali activated slag pastes. 2023 , 368, 130391	0
48	Behavior of alkali-activated coal ash basalt fiber-reinforced geopolymer nanocomposite incorporated with nano sodium oxide. 2023 , 335, 133850	0
47	Synthesis of waste limestone powderBased alkali-activated binder: experimental, optimization modeling, and eco-efficiency assessment.	0
46	Use of nanomaterials in geopolymers. 2023 , 161-190	0
45	Alkali-Activated Hybrid Cement from Mineral Wool Fiber Waste and OPC. 2023 , 13, 354	1
44	Cleaner Production of Green Geopolymer Concrete. 2023 , 1-8	0
43	Dispersing Efficacy of Tailored IPEG PCEs in AAS Binders: Elucidating the Impact of PCE Molecular Weight. 2023 , 62, 1776-1787	0
42	The Influence of Alkali Content on the Hydration of the Slag-Based Geopolymer: Relationships between Resistivity, Setting, and Strength Development. 2023 , 15, 518	0
41	Effect of steel fibre and manufactured sand on mechanical properties of alkali-activated slag green cementitious material after high temperature. 2023 , 18, e01919	0
40	Effect of NaOH content on the fluidizing effect of PCEs with different structures in NaOH-activated slag. 2023 , 166, 107112	0
39	Effects of Borax, Sucrose, and Citric Acid on the Setting Time and Mechanical Properties of Alkali-Activated Slag. 2023 , 16, 3010	0
38	Neural network optimization during the purification of industrial effluents using steel slag: kinetics and mechanism. 2023 , 30, 103118	0

- 37 Combination of Slag and Fly Ash to Prepare Engineered Cementitious Composite: A Study on Mechanical Properties and Gas Permeability. **2023**, 35, 0
- 36 Effect of diatomite on the reaction kinetics, early-age chemical shrinkage and microstructure of alkali-activated slag cements. **2023**, 376, 131026 0
- 35 Reactivity of waterglass in cementitious systems. **2023**, 12, 100067 0
- 34 Promulgation of engineering and sustainable performances of self-compacting geopolymer concrete. **2023**, 68, 106093 0
- 33 Effect of green liquor dregs as an alkali source for alkali-activated blast furnace slag mortar. **2023**, 18, e01950 0
- 32 Alternative Non-Portland Binders. **2022**, 18, 314-320 3
- 31 Formulation and characterization of cleaner one-part novel fly ash/lime-based alkali-activated material. **2023**, 23, 3821-3839 0
- 30 In-situ solidification of alkali-activated lunar regolith: Insights into the chemical and physical origins. **2023**, 391, 136147 0
- 29 The changes in the reaction kinetics and phase assemblage of sodium silicate-activated CaO-MgO-Al₂O₃-SiO₂ glasses induced by the Al replacement by Mg. **2023**, 166, 107103 0
- 28 Behaviour of alkali-activated concrete at elevated temperatures: A critical review. **2023**, 138, 104961 0
- 27 Impact of heat curing regime on the compressive strength and drying shrinkage of alkali-activated slag mortar. **2023**, 14, 100123 0
- 26 Mechanism study of effect of superplasticizers on the fluidity of alkali-activated materials. **2023**, 56, 0
- 25 Recycling of red mud and flue gas residues in geopolymer aggregates (GPA) for sustainable concrete. **2023**, 191, 106893 0
- 24 Toward sustainable lightweight durable bricks using alkali-activated hemp-based materials. **2023**, 369, 130609 1
- 23 Alkali-activated fly ash cured with pulsed microwave and thermal oven: A comparison of reaction products, microstructure and compressive strength. **2023**, 166, 107104 1
- 22 Clay rich river sediments calcined into precursors for alkali activated materials. **2023**, 234, 106848 0
- 21 VALORIZATION OF WASTE ALKALIS AS REPLACEMENT OF COMMERCIAL ALKALINE ACTIVATOR SOLUTION. **2022**, 0
- 20 Novel binder material in geopolymer mortar production: Obsidian stone powder. 0

- 19 Optimising the Performance of CO₂-Cured Alkali-Activated Aluminosilicate Industrial By-Products as Precursors. **2023**, 16, 1923 ○
- 18 Valorisation of Water Potabilization Sludges as Precursors for Alkali-Activated Binders: Characterization and Feasibility Study. **2023**, 16, 1998 ○
- 17 Geopolymer versus cement-based textile-reinforced mortar: Diagonal compression tests on masonry walls representative of infills in RC frames. **2023**, 373, 130836 ○
- 16 Effect of Ferrochrome Slag Substitution on High Temperature Resistance and Setting Time of Alkali-Activated Slag Mortars. ○
- 15 Performance analysis of coagulation hardening effect of geopolymer prepared from high calcium-based ladle furnace slag. **2023**, 374, 130963 ○
- 14 Shrinkage mitigation of alkali-activated fly ash/slag mortar by using phosphogypsum waste. **2023**, 375, 130978 ○
- 13 Combined effect of using steel fibers and demolition waste aggregates on the performance of fly ash/slag based geopolymer concrete. 1-28 ○
- 12 Modification Effect of Ca(OH)₂ on the Carbonation Resistance of Fly Ash-Metakaolin-Based Geopolymer. **2023**, 16, 2305 ○
- 11 Properties Exhibited by Nanomaterial Based Geopolymers: A Review. ○
- 10 Enhancing acid resistance of geopolymer concrete composites by utilising styrene-butadiene latex, nano-silica and micro-silica powder. 1-19 ○
- 9 Mechanical Behavior of a Mine Tailing Stabilized with a Sustainable Binder. **2023**, 13, 4103 ○
- 8 A review on rheological behaviour of alkali activated materials and the influence of composition factors. **2023**, ○
- 7 Smart modelling system for alkali-activated concrete pavements using machine learning techniques. ○
- 6 The Effect of Mechanical Activation of Fly Ash on Cement-Based Materials Hydration and Hardened State Properties. **2023**, 16, 2959 ○
- 5 Effect of Hydrogen Peroxide on the Thermal and Mechanical Properties of Lightweight Geopolymer Mortar Panels. **2023**, 13, 542 ○
- 4 Carbonation of Alkali-Activated Materials: A Review. **2023**, 16, 3086 ○
- 3 Synthesis, Stability and Microstructure of a One-Step Mixed Geopolymer Backfill Paste Derived from Diverse Waste Slags. **2023**, 15, 6708 ○
- 2 Prediction & optimization of alkali-activated concrete based on the random forest machine learning algorithm. **2023**, 385, 131519 ○

1 Hydrogen sulfide control in sewer systems: A critical review of recent progress. **2023**, 240, 120046

o