Elie Kamseu

List of Publications by Year
in descending order

126	4,057	101543	149698
papers	citations	36 h-index	56 g-index

128	128	128	2046
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of Groundnut Shell Powder on Development of Lightweight Metakaolin Based Geopolymer Composite: Mechanical and Microstructural Properties. Silicon, 2022, 14, 449-461.	3.3	15
2	Mechanical Properties and Microstructure of a Metakaolin-Based Inorganic Polymer Mortar Reinforced with Quartz Sand. Silicon, 2022, 14, 263-274.	3.3	13
3	Thermal behaviour and microstructural evolution of metakaolin and meta-halloysite-based geopolymer binders: a comparative study. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2055-2071.	3.6	21
4	Effect of Combined Metakaolin and Basalt Powder Additions to Laterite-Based Geopolymers Activated by Rice Husk Ash (RHA)/NaOH Solution. Silicon, 2022, 14, 1643-1662.	3.3	23
5	Synthesis of Volcanic Ashâ€based Porous Inorganic Polymers Using Biomass as Pore Inducing Agent: Phase Evolution and Descriptive Microstructure. Silicon, 2022, 14, 2595-2608.	3.3	7
6	Resistance of Alkali-Activated Blended Volcanic Ash-MSWI-FA Mortar in Sulphuric Acid and Artificial Seawater. Silicon, 2022, 14, 2687-2694.	3.3	16
7	Mechanical Performance, Phase Evolution and Microstructure of Natural Feldspathic Solid Solutions Consolidated Via Alkali Activation: Effect of NaOH Concentration. Silicon, 2022, 14, 4107-4120.	3.3	9
8	Influence of mineralogy and activator type on the rheology behaviour and setting time of laterite based geopolymer paste. Cement and Concrete Composites, 2022, 126, 104345.	10.7	23
9	Reaction kinetics and microstructural characteristics of iron-rich-laterite-based phosphate binder. Construction and Building Materials, 2022, 320, 126302.	7.2	12
10	Alkali-silica reactions in granite-based aggregates: The role of biotite and pyrite. Construction and Building Materials, 2022, 320, 126259.	7.2	7
11	Influence of Thermal Activation and Silica Modulus on the Properties of Clayey-Lateritic Based Geopolymer Binders Cured at Room Temperature. Silicon, 2022, 14, 7399-7416.	3.3	8
12	A Low Thermal Conductivity of Lightweight Laterite-cement Composites with Cotton Wastes Fibres. Silicon, 2022, 14, 8205-8222.	3.3	6
13	Design of porous Geopolymers for hygrothermal applications: role of nano and meso porosity. Silicon, 2022, 14, 10045-10059.	3.3	3
14	Feasibilty of valorizing quarry wastes in the synthesis of geopolymer binders: engineering performances and microstructure. Environmental Science and Pollution Research, 2022, 29, 50804-50818.	5.3	8
15	Valorization of marble powder wastes using rice husk ash to yield enhanced-performance inorganic polymer cements: Phase evolution, microstructure, and micromechanics analyses. Cleaner Engineering and Technology, 2022, 8, 100461.	4.0	3
16	Physico-mechanical and microstructural properties of geopolymer binders synthesized with metakaolin and meta-halloysite as precursors. Cleaner Materials, 2022, 4, 100070.	5.1	4
17	Refractory ceramics bonds from potassium-based inorganic polymer for advanced applications: Crystalline phase changes and descriptive microstructure. Ceramics International, 2022, 48, 21579-21588.	4.8	5
18	Lateritic soils based geopolymer materials: A review. Construction and Building Materials, 2022, 344, 128157.	7.2	28

#	Article	IF	Citations
19	Enhancing the crystallization phenomena and strength of porcelain stoneware: the role of CaO. Journal of Thermal Analysis and Calorimetry, 2021, 144, 91-106.	3.6	10
20	Microstructure and physico-chemical transformation of some common woods from Cameroon during drying. Journal of Thermal Analysis and Calorimetry, 2021, 145, 3003-3018.	3.6	4
21	Characterization and performance evaluation of laterite based geopolymer binder cured at different temperatures. Construction and Building Materials, 2021, 270, 121443.	7.2	48
22	Dependence of the geopolymerization process and end-products to the nature of solid precursors: Challenge of the sustainability. Journal of Cleaner Production, 2021, 278, 123587.	9.3	22
23	Mechanical and physical properties of inorganic polymer cement made of iron-rich laterite and lateritic clay: A comparative study. Cement and Concrete Research, 2021, 140, 106320.	11.0	58
24	Evaluation of performances of volcanic-ash-laterite based blended geopolymer concretes: Mechanical properties and durability. Journal of Building Engineering, 2021, 34, 101935.	3.4	26
25	Innovative porous ceramic matrices from inorganic polymer composites (IPCs): Microstructure and mechanical properties. Construction and Building Materials, 2021, 273, 122032.	7.2	25
26	Development of alkali-activated composites from calcined iron-rich laterite soil. Materialia, 2021, 15, 101032.	2.7	28
27	Powdered banana peel in calcined halloysite replacement on the setting times and engineering properties on the geopolymer binders. Construction and Building Materials, 2021, 279, 122480.	7.2	24
28	Controlling the Thermal Stability of Kyanite-Based Refractory Geopolymers. Materials, 2021, 14, 2903.	2.9	7
29	Mechanical strength and microstructure of metakaolin/volcanic ash-based geopolymer composites reinforced with reactive silica from rice husk ash (RHA). Materialia, 2021, 16, 101083.	2.7	30
30	Influence of the synthetic calcium aluminate hydrate and the mixture of calcium aluminate and silicate hydrates on the compressive strengths and the microstructure of metakaolin-based geopolymer cements. Materials Chemistry and Physics, 2021, 264, 124459.	4.0	15
31	Dependence of the insulating behavior of some common woods to the pore network and packing density of their fibers: a microstructural approach. Transport in Porous Media, 2021, 138, 309-336.	2.6	1
32	Particles size and distribution on the improvement of the mechanical performance of high strength solid solution based inorganic polymer composites: A microstructural approach. Materials Chemistry and Physics, 2021, 267, 124602.	4.0	8
33	Influence of alumina on the compressive strengths and microstructural properties of the acid-based geopolymers from calcined indurated laterite and metakaolin. Applied Clay Science, 2021, 209, 106148.	5.2	17
34	Effects of curing cycles on developing strength and microstructure of goethite-rich aluminosilicate (corroded laterite) based geopolymer composites. Materials Chemistry and Physics, 2021, 270, 124864.	4.0	16
35	Alkali-activated laterite binders: Influence of silica modulus on setting time, Rheological behaviour and strength development. Cleaner Engineering and Technology, 2021, 4, 100175.	4.0	14
36	Performance of geopolymer composites made with feldspathic solid solutions: Micromechanics and microstructure. Cement and Concrete Composites, 2021, 124, 104241.	10.7	15

#	Article	IF	Citations
37	Synergetic effect of rice husk ash and quartz sand on microstructural and physical properties of laterite clay based geopolymer. Journal of Building Engineering, 2021, 43, 103229.	3.4	19
38	Engineering properties, phase evolution and microstructure of the iron-rich aluminosilicates-cement based composites: Cleaner production of energy efficient and sustainable materials. Cleaner Materials, 2021, 1, 100017.	5.1	6
39	Synthesis and characterization of eco-friendly mortars made with RHA-NaOH activated fly ash as binder at room temperature. Cleaner Materials, 2021, 1, 100010.	5.1	4
40	Marble wastes recycling: Design and synthesis of low-temperature calcium silicate hydrate under various CaO:SiO2 ratio and alkalinity. Materialia, 2021, 20, 101224.	2.7	3
41	Characterization, reactivity and rheological behaviour of metakaolin and Meta-halloysite based geopolymer binders. Cleaner Materials, 2021, 2, 100025.	5.1	9
42	Meta-halloysite to improve compactness in iron-rich laterite-based alkali activated materials. Materials Chemistry and Physics, 2020, 239, 122268.	4.0	53
43	Ferrisilicates formation during the geopolymerization of natural Fe-rich aluminosilicate precursors. Materials Chemistry and Physics, 2020, 240, 122062.	4.0	60
44	Production of Porous Poly(phospho-siloxo) Networks for Thermal Insulations Using Low-Value Calcium-Rich Wastes as Pore-Forming Agents. Waste and Biomass Valorization, 2020, 11, 5857-5875.	3.4	10
45	Semi-vitrified porous kyanite mullite ceramics: Young modulus, microstructure and pore size evolution. SN Applied Sciences, 2020, 2, 1.	2.9	7
46	Acid-based geopolymers using waste fired brick and different metakaolins as raw materials. Applied Clay Science, 2020, 198, 105813.	5.2	35
47	Elaboration of a new ceramic membrane support from Cameroonian clays, coconut husks and eggshells: Application for Escherichia coli bacteria retention. Applied Clay Science, 2020, 198, 105836.	5.2	16
48	Reaction kinetics and rheological behaviour of meta-halloysite based geopolymer cured at room temperature: Effect of thermal activation on physicochemical and microstructural properties. Applied Clay Science, 2020, 196, 105773.	5.2	45
49	Mechanical and microstructural properties of geopolymer mortars from meta-halloysite: effect of titanium dioxide TiO2 (anatase and rutile) content. SN Applied Sciences, 2020, 2, 1.	2.9	25
50	Effect of silica and lignocellulosic additives on the formation and the distribution of meso and macropores in foam metakaolin-based geopolymer filters for dyes and wastewater filtration. SN Applied Sciences, 2020, 2, 1.	2.9	23
51	Thermal behaviour of metakaolinâ€“bauxite blends geopolymer: microstructure and mechanical properties. SN Applied Sciences, 2020, 2, 1.	2.9	33
52	Thermal behaviour and phases evolution during the sintering of porous inorganic membranes. Journal of the European Ceramic Society, 2020, 40, 2151-2162.	5.7	14
53	Preparation of low-cost nano and microcomposites from chicken eggshell, nano-silica and rice husk ash and their utilisations as additives for producing geopolymer cements. Journal of Asian Ceramic Societies, 2020, 8, 149-161.	2.3	22
54	Microstructural and mechanical properties of poly(sialate-siloxo) networks obtained using metakaolins from kaolin and halloysite as aluminosilicate sources: A comparative study. Applied Clay Science, 2020, 186, 105448.	5.2	51

#	Article	IF	Citations
55	In vitro surface reaction in SBF of a non-crystalline aluminosilicate (geopolymer) material. Journal of the Australian Ceramic Society, 2019, 55, 11-17.	1.9	9
56	Influence of the molar ratios CaO/SiO2 contained in the sustainable microcomposites on the mechanical and microstructural properties of (Ca, Na)-poly(sialate-siloxo) networks. Materials Chemistry and Physics, 2019, 238, 121928.	4.0	12
57	Influence of the curing temperature on the properties of poly(phospho-ferro-siloxo) networks from laterite. SN Applied Sciences, 2019, 1, 1.	2.9	38
58	Microstructural and mechanical properties of (Ca, Na)-poly(sialate-siloxo) from metakaolin as aluminosilicate and calcium silicate from precipitated silica and calcined chicken eggshell. Construction and Building Materials, 2019, 201, 662-675.	7.2	18
59	Microstructure and mechanical, physical and structural properties of sustainable lightweight metakaolin-based geopolymer cements and mortars employing rice husk. Journal of Asian Ceramic Societies, 2019, 7, 199-212.	2.3	22
60	Room-temperature alkaline activation of feldspathic solid solutions: Development of high strength geopolymers. Construction and Building Materials, 2019, 195, 258-268.	7.2	47
61	Improving insulation in metakaolin based geopolymer: Effects of metabauxite and metatalc. Journal of Building Engineering, 2019, 23, 403-415.	3.4	15
62	Design of low cost semi-crystalline calcium silicate from biomass for the improvement of the mechanical and microstructural properties of metakaolin-based geopolymer cements. Materials Chemistry and Physics, 2019, 223, 98-108.	4.0	33
63	Design and characterization of porous mullite based semi-vitrified ceramics. Ceramics International, 2018, 44, 7939-7948.	4.8	13
64	Investigation of the relationship between the condensed structure and the chemically bonded water content in the poly(sialate-siloxo) network. Applied Clay Science, 2018, 156, 77-86.	5.2	20
65	Moisture Control Capacity of Geopolymer Composites: Correlation of the Bulk Compositionâ€“Pore Network with the Absorptionâ€“Desorption Behavior. Transport in Porous Media, 2018, 122, 77-95.	2.6	11
66	The effects of synthesized calcium phosphate compounds on the mechanical and microstructural properties of metakaolin-based geopolymer cements. Construction and Building Materials, 2018, 163, 776-792.	7.2	27
67	Microstructure and engineering properties of Fe2O3(FeO)-Al2O3-SiO2 based geopolymer composites. Journal of Cleaner Production, 2018, 199, 849-859.	9.3	80
68	Synthesis and properties of inorganic polymers (geopolymers) derived from Cameroon-meta-halloysite. Ceramics International, 2018, 44, 18499-18508.	4.8	48
69	Effect of silicate modulus on the setting, mechanical strength and microstructure of iron-rich aluminosilicate (laterite) based-geopolymer cured at room temperature. Ceramics International, 2018, 44, 21442-21450.	4.8	97
70	Water resistance and thermal behavior of metakaolin-phosphate-based geopolymer cements. Journal of Asian Ceramic Societies, 2018, 6, 271-283.	2.3	57
71	The role of kyanite in the crystallization and densification of the high strength mullite matrix composites. Journal of Thermal Analysis and Calorimetry, 2018, 131, 969-982.	3.6	10
72	The corrosion of kaolinite by iron minerals and the effects on geopolymerization. Applied Clay Science, 2017, 138, 48-62.	5.2	98

#	Article	IF	Citations
73	Utilization of sodium waterglass from sugar cane bagasse ash as a new alternative hardener for producing metakaolin-based geopolymer cement. Chemie Der Erde, 2017, 77, 257-266.	2.0	71
74	Design of ceramic filters using Clay/Sawdust composites: Effect of pore network on the hydraulic permeability. Ceramics International, 2017, 43, 4496-4507.	4.8	17
75	Geopolymerization as Cold-Consolidation Techniques for Hazardous and Non-Hazardous Wastes. Key Engineering Materials, 2017, 751, 527-531.	0.4	4
76	Effect of slag and calcium carbonate addition on the development of geopolymer from indurated laterite. Applied Clay Science, 2017, 148, 109-117.	5.2	36
77	Influence of the molar concentration of phosphoric acid solution on the properties of metakaolin-phosphate-based geopolymer cements. Applied Clay Science, 2017, 147, 184-194.	5.2	100
78	The influence of gibbsite in kaolin and the formation of berlinite on the properties of metakaolin-phosphate-based geopolymer cements. Materials Chemistry and Physics, 2017, 199, 280-288.	4.0	56
79	Substitution of sodium silicate with rice husk ash-NaOH solution in metakaolin based geopolymer cement concerning reduction in global warming. Journal of Cleaner Production, 2017, 142, 3050-3060.	9.3	131
80	Thermal Behavior of Metakaolin-Based Geopolymer Cements Using Sodium Waterglass from Rice Husk Ash and Waste Glass as Alternative Activators. Waste and Biomass Valorization, 2017, 8, 573-584.	3.4	67
81	Properties of Geopolymers Made from Fired Clay Bricks Wastes and Rice Husk Ash (RHA)-Sodium Hydroxide (NaOH) Activator. Materials Sciences and Applications, 2017, 08, 537-552.	0.4	14
82	Design of Inorganic Polymer Mortar from Ferricalsialic and Calsialic Slags for Indoor Humidity Control. Materials, 2016, 9, 410.	2.9	13
83	Geopolymer binders from metakaolin using sodium waterglass from waste glass and rice husk ash as alternative activators: A comparative study. Construction and Building Materials, 2016, 114, 276-289.	7.2	202
84	The role of kyanite in the improvement in the crystallization and densification of the high strength mullite matrix. Journal of Thermal Analysis and Calorimetry, 2016, 126, 1211-1222.	3.6	15
85	Self-compacting geopolymer concretes: Effects of addition of aluminosilicate-rich fines. Journal of Building Engineering, 2016, 5, 211-221.	3.4	21
86	Comparison of metakaolin-based geopolymer cements from commercial sodium waterglass and sodium waterglass from rice husk ash. Journal of Sol-Gel Science and Technology, 2016, 78, 492-506.	2.4	68
87	Potassium alkali concentration and heat treatment affected metakaolin-based geopolymer. Construction and Building Materials, 2016, 104, 293-297.	7.2	54
88	Cold-setting refractory composites from cordierite and mulliteâ€“cordierite design with geopolymer paste as binder: Thermal behavior and phase evolution. Materials Chemistry and Physics, 2015, 154, 66-77.	4.0	22
89	Recycled natural wastes in metakaolin based porous geopolymers for insulating applications. Journal of Building Engineering, 2015, 3, 58-69.	3.4	38
90	Cleaner production of the lightweight insulating composites: Microstructure, pore network and thermal conductivity. Energy and Buildings, 2015, 107, 113-122.	6.7	40

#	Article	IF	Citations
91	Influence of fine aggregates on the microstructure, porosity and chemico-mechanical stability of inorganic polymer concretes. Construction and Building Materials, 2015, 96, 473-483.	7.2	21
92	Transformation of the geopolymer gels to crystalline bonds in cold-setting refractory concretes: Pore evolution, mechanical strength and microstructure. Materials and Design, 2015, 88, 336-344.	7.0	21
93	Cumulative pore volume, pore size distribution and phases percolation in porous inorganic polymer composites: Relation microstructure and effective thermal conductivity. Energy and Buildings, 2015, 88, 45-56.	6.7	72
94	A Sustainable Approach for the Geopolymerization of Natural Iron-Rich Aluminosilicate Materials. Sustainability, 2014, 6, 5535-5553.	3.2	65
95	Mineralogical and Physical Changes during Sintering of Plastic Red Clays from Sanaga Swampy Valley, Cameroon. InterCeram: International Ceramic Review, 2014, 63, 186-192.	0.2	4
96	Metakaolin-based inorganic polymer composite: Effects of fine aggregate composition and structure on porosity evolution, microstructure and mechanical properties. Cement and Concrete Composites, 2014, 53, 258-269.	10.7	56
97	Reaction sintering and microstructural evolution in metakaolin-metastable alumina composites. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1035-1045.	3.6	15
98	Use of bauxite from Cameroon for solid state sintering and characterization of calcium dialuminate (CaOÂ·2Al2O3) refractory cement. Ceramics International, 2014, 40, 1961-1970.	4.8	16
99	Influence of the processing temperature on the compressive strength of Na activated lateritic soil for building applications. Construction and Building Materials, 2014, 65, 60-66.	7.2	58
100	Binder Chemistry â€“ Low-Calcium Alkali-Activated Materials. RILEM State-of-the-Art Reports, 2014, , 93-123.	0.7	23
101	Sintering behaviors of two porcelainized stoneware compositions using pegmatite and nepheline syenite minerals. Journal of Thermal Analysis and Calorimetry, 2013, 114, 113-123.	3.6	14
102	Mix-design and characterization of alkali activated materials based on metakaolin and ladle slag. Applied Clay Science, 2013, 73, 78-85.	5.2	105
103	Porcelain stoneware with pegmatite and nepheline syenite solid solutions: Pore size distribution and descriptive microstructure. Journal of the European Ceramic Society, 2013, 33, 2775-2784.	5.7	22
104	Design of inorganic polymer cements: Effects of matrix strengthening on microstructure. Construction and Building Materials, 2013, 38, 1135-1145.	7.2	49
105	Correlation between microstructural evolution and mechanical properties ofÎ±-quartz and alumina reinforced K-geopolymers during high temperature treatments. Advances in Applied Ceramics, 2012, 111, 120-128.	1.1	12
106	Insulating behavior of metakaolin-based geopolymer materials assess with heat flux meter and laser flash techniques. Journal of Thermal Analysis and Calorimetry, 2012, 108, 1189-1199.	3.6	56
107	Bulk composition and microstructure dependence of effective thermal conductivity of porous inorganic polymer cements. Journal of the European Ceramic Society, 2012, 32, 1593-1603.	5.7	153
108	Laterite Based Stabilized Products for Sustainable Building Applications in Tropical Countries: Review and Prospects for the Case of Cameroon. Sustainability, 2011, 3, 293-305.	3.2	49

#	Article	IF	Citations
109	Advancing the Use of Secondary Inputs in Geopolymer Binders for Sustainable Cementitious Composites: A Review. Sustainability, 2011, 3, 410-423.	3.2	33
110	Sintering behaviour of porous ceramic kaolinâ€“corundum composites: Phase evolution and densification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8311-8318.	5.6	25
111	Improving hydraulic properties of limeâ€“rice husk ash (RHA) binders with metakaolin (MK). Construction and Building Materials, 2011, 25, 2157-2161.	7.2	32
112	Enhanced thermal stability in K2O-metakaolin-based geopolymer concretes by Al2O3 and SiO2 fillers addition. Journal of Materials Science, 2010, 45, 1715-1724.	3.7	97
113	Chemical stability of geopolymers containing municipal solid waste incinerator fly ash. Waste Management, 2010, 30, 673-679.	7.4	136
114	Alkali-ions diffusion, mullite formation, and crystals dissolution during sintering of porcelain bodies: Microstructural approach. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2009, 223, 183-191.	1.1	2
115	DEHYDRATION, DEHYDROXYLATION, DENSIFICATION AND DEFORMATION DURING SINTERING OF GEOPOLYMERS BASED ON THE K 2 O-AL 2 O 3 -SIO 2 SYSTEM. , 2009, , 217.		2
116	Microstuctural evolution during thermal treatment of three kaolinitic clays from Cameroon. Advances in Applied Ceramics, 2009, 108, 338-346.	1.1	11
117	Descriptive microstructure and fracture surface observations of fired volcanic ash. Journal of Materials Science, 2009, 44, 4944-4952.	3.7	5
118	Use of noncontact dilatometry for the assessment of the sintering kinetics during mullitization of three kaolinitic clays from Cameroon. Journal of Thermal Analysis and Calorimetry, 2009, 98, 757-763.	3.6	13
119	Service life prediction for refractory materials. Journal of Materials Science, 2008, 43, 4079-4090.	3.7	19
120	Sintering behaviour, microstructure and mechanical properties of low quartz content vitrified ceramics using volcanic ash. Advances in Applied Ceramics, 2008, 107, 19-26.	1.1	7
121	Volcanic ash as alternative raw materials for traditional vitrified ceramic products. Advances in Applied Ceramics, 2007, 106, 135-141.	1.1	46
122	Characterisation of porcelain compositions using two china clays from Cameroon. Ceramics International, 2007, 33, 851-857.	4.8	95
123	Determination of thermal shock resistance in refractory materials by ultrasonic pulse velocity measurement. Journal of the European Ceramic Society, 2007, 27, 1859-1863.	5.7	51
124	Non-contact dilatometry of hard and soft porcelain compositions. Journal of Thermal Analysis and Calorimetry, 2007, 88, 571-576.	3.6	10
125	Geopolymer Development by Powders of Metakaolin and Wastes in Thailand. Advances in Science and Technology, 0, , .	0.2	22
126	Bi-Axial Four Points Flexural and Compressive Strength of Geopolymer Materials Based Na2O-K2O-Al2O3-SiO2 Systems. Ceramic Engineering and Science Proceedings, 0, , 155-164.	0.1	1