

# Yiannis Pontikes

## List of Publications by Year in descending order

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129  
papers

6,205  
citations

66343

42  
h-index

74163

75  
g-index

131  
all docs

131  
docs citations

131  
times ranked

4478  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards zero-waste valorisation of rare-earth-containing industrial process residues: a critical review. <i>Journal of Cleaner Production</i> , 2015, 99, 17-38.	9.3	463
2	Leaching of rare earths from bauxite residue (red mud). <i>Minerals Engineering</i> , 2015, 76, 20-27.	4.3	368
3	Enhanced Landfill Mining in view of multiple resource recovery: a critical review. <i>Journal of Cleaner Production</i> , 2013, 55, 45-55.	9.3	282
4	Productive sugar isomerization with highly active Sn in dealuminated $\hat{1}^2$ zeolites. <i>Green Chemistry</i> , 2013, 15, 2777.	9.0	232
5	Recovery of Rare Earths and Other Valuable Metals From Bauxite Residue (Red Mud): A Review. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 365-386.	2.3	231
6	Characterization of landfilled materials: screening of the enhanced landfill mining potential. <i>Journal of Cleaner Production</i> , 2013, 55, 72-83.	9.3	209
7	Advances in alkali-activation of clay minerals. <i>Cement and Concrete Research</i> , 2020, 132, 106050.	11.0	201
8	Cooperative Catalysis for Multistep Biomass Conversion with Sn/Al Beta Zeolite. <i>ACS Catalysis</i> , 2015, 5, 928-940.	11.2	164
9	Effect of mechanical activation on the hydraulic properties of stainless steel slags. <i>Cement and Concrete Research</i> , 2012, 42, 778-788.	11.0	145
10	Selective recovery of rare earths from bauxite residue by combination of sulfation, roasting and leaching. <i>Minerals Engineering</i> , 2016, 92, 151-159.	4.3	140
11	Bauxite residue in cement and cementitious applications: Current status and a possible way forward. <i>Resources, Conservation and Recycling</i> , 2013, 73, 53-63.	10.8	136
12	Smelting of Bauxite Residue (Red Mud) in View of Iron and Selective Rare Earths Recovery. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 28-37.	2.3	126
13	Effect of accelerated carbonation on AOD stainless steel slag for its valorisation as a CO <sub>2</sub> -sequestering construction material. <i>Chemical Engineering Journal</i> , 2014, 246, 39-52.	12.7	121
14	Near-zero-waste processing of low-grade, complex primary ores and secondary raw materials in Europe: technology development trends. <i>Resources, Conservation and Recycling</i> , 2020, 160, 104919.	10.8	114
15	Post-synthesis Sn $\hat{1}^2$ : An exploration of synthesis parameters and catalysis. <i>Journal of Catalysis</i> , 2015, 330, 545-557.	6.2	89
16	Effect of firing temperature and atmosphere on ceramics made of NW Peloponnese clay sediments. Part I: Reaction paths, crystalline phases, microstructure and colour. <i>Journal of the European Ceramic Society</i> , 2010, 30, 1841-1851.	5.7	87
17	Valorisation of electric arc furnace steel slag as raw material for low energy belite cements. <i>Journal of Hazardous Materials</i> , 2011, 196, 287-294.	12.4	87
18	Slags with a high Al and Fe content as precursors for inorganic polymers. <i>Applied Clay Science</i> , 2013, 73, 93-102.	5.2	85

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19	Effect of NaOH content on hydration, mineralogy, porosity and strength in alkali/sulfate-activated binders from ground granulated blast furnace slag and phosphogypsum. <i>Cement and Concrete Research</i> , 2020, 132, 106054.	11.0	83
20	Ladle metallurgy stainless steel slag as a raw material in Ordinary Portland Cement production: a possibility for industrial symbiosis. <i>Journal of Cleaner Production</i> , 2016, 112, 872-881.	9.3	81
21	Use of boron wastes in the production of heavy clay ceramics. <i>Ceramics International</i> , 2009, 35, 447-452.	4.8	76
22	Geopolymers, inorganic polymers, alkali-activated materials and hybrid binders from bauxite residue (red mud) – Putting things in perspective. <i>Journal of Cleaner Production</i> , 2020, 258, 120610.	9.3	76
23	Thermal behaviour of clay mixtures with bauxite residue for the production of heavy-clay ceramics. <i>Journal of the European Ceramic Society</i> , 2007, 27, 1645-1649.	5.7	73
24	Influence of mechanical and chemical activation on the hydraulic properties of gamma dicalcium silicate. <i>Cement and Concrete Research</i> , 2014, 55, 59-68.	11.0	72
25	Cementitious binders from activated stainless steel refining slag and the effect of alkali solutions. <i>Journal of Hazardous Materials</i> , 2015, 286, 211-219.	12.4	71
26	Potassium-rich biomass ashes as activators in metakaolin-based inorganic polymers. <i>Applied Clay Science</i> , 2016, 119, 401-409.	5.2	69
27	Synthesis, characterization and properties of calcium ferroaluminate belite cements produced with electric arc furnace steel slag as raw material. <i>Cement and Concrete Composites</i> , 2013, 44, 1-8.	10.7	67
28	Recovery of Rare Earths and Major Metals from Bauxite Residue (Red Mud) by Alkali Roasting, Smelting, and Leaching. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 393-404.	2.3	65
29	Confinement Effects in Lewis Acid-Catalyzed Sugar Conversion: Steering Toward Functional Polyester Building Blocks. <i>ACS Catalysis</i> , 2015, 5, 5803-5811.	11.2	62
30	Effect of firing temperature and atmosphere on sintering of ceramics made from Bayer process bauxite residue. <i>Ceramics International</i> , 2009, 35, 401-407.	4.8	59
31	New perspectives and issues arising from the introduction of (NORM) residues in building materials: A critical assessment on the radiological behaviour. <i>Construction and Building Materials</i> , 2015, 82, 323-331.	7.2	56
32	Alkali-activated binders based on ground granulated blast furnace slag and phosphogypsum. <i>Construction and Building Materials</i> , 2019, 215, 371-380.	7.2	56
33	Use of modified bauxite residue-based porous inorganic polymer monoliths as adsorbents of methylene blue. <i>Journal of Cleaner Production</i> , 2019, 227, 877-889.	9.3	55
34	Sintered esseneite-wollastonite-plagioclase glass-ceramics from vitrified waste. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2921-2927.	5.7	52
35	A Proposal for a 100% Use of Bauxite Residue Towards Inorganic Polymer Mortar. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 394-404.	2.3	52
36	Byproduct-based ettringite binder – A synergy between ladle slag and gypsum. <i>Construction and Building Materials</i> , 2019, 197, 143-151.	7.2	51

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37	Thermal behaviour of clays for traditional ceramics with soda-lime-silica waste glass admixture. <i>Journal of the European Ceramic Society</i> , 2007, 27, 1657-1663.	5.7	50
38	Effect of firing temperature and atmosphere on ceramics made of NW Peloponnese clay sediments: Part II. Chemistry of pyrometamorphic minerals and comparison with ancient ceramics. <i>Journal of the European Ceramic Society</i> , 2010, 30, 1853-1866.	5.7	48
39	Early Age Microstructural Transformations of an Inorganic Polymer Made of Fayalite Slag. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2269-2277.	3.8	48
40	Feasibility of incorporating phosphogypsum in ettringite-based binder from ladle slag. <i>Journal of Cleaner Production</i> , 2019, 237, 117793.	9.3	48
41	Effect of High Cooling Rates on the Mineralogy and Hydraulic Properties of Stainless Steel Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013, 44, 1173-1184.	2.1	46
42	Effect of curing temperatures on the alkali activation of crystalline continuous casting stainless steel slag. <i>Construction and Building Materials</i> , 2014, 71, 308-316.	7.2	45
43	The Rare Earth Elements Potential of Greek Bauxite Active Mines in the Light of a Sustainable REE Demand. <i>Journal of Sustainable Metallurgy</i> , 2019, 5, 20-47.	2.3	44
44	Inorganic polymers made of fayalite slag: On the microstructure and behavior of Fe. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2245-2257.	3.8	43
45	Nano-mineralogy and -geochemistry of high-grade diasporic karst-type bauxite from Parnassos-Ghiona mines, Greece. <i>Ore Geology Reviews</i> , 2017, 84, 228-244.	2.7	42
46	Molecular structure of $\text{CaO-FeO-SiO}_2$ glassy slags and resultant inorganic polymer binders. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5846-5857.	3.8	40
47	Mix-design Parameters and Real-life Considerations in the Pursuit of Lower Environmental Impact Inorganic Polymers. <i>Waste and Biomass Valorization</i> , 2018, 9, 879-889.	3.4	39
48	The impact of slag fineness on the reactivity of blended cements with high-volume non-ferrous metallurgy slag. <i>Construction and Building Materials</i> , 2020, 257, 119400.	7.2	39
49	Boosting the use of bauxite residue (red mud) in cement - Production of an Fe-rich calciumsulfoaluminate-ferrite clinker and characterisation of the hydration. <i>Cement and Concrete Research</i> , 2021, 145, 106463.	11.0	39
50	Inorganic Polymers from a Plasma Converter Slag: Effect of Activating Solution on Microstructure and Properties. <i>Journal of Sustainable Metallurgy</i> , 2015, 1, 240-251.	2.3	38
51	Upcycling of non-ferrous metallurgy slags: Identifying the most reactive slag for inorganic polymer construction materials. <i>Resources, Conservation and Recycling</i> , 2020, 154, 104627.	10.8	38
52	Inorganic Polymer Cement from Fe-Silicate Glasses: Varying the Activating Solution to Glass Ratio. <i>Waste and Biomass Valorization</i> , 2014, 5, 411-428.	3.4	37
53	The influence of curing conditions on the mechanical properties and leaching of inorganic polymers made of fayalitic slag. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 317-327.	4.4	37
54	The fate of iron during the alkali-activation of synthetic $(\text{CaO-FeO-SiO}_2)$ slags: An Fe K-edge XANES study. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2107-2118.	3.8	36

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55	Metakaolinite Phosphate Cementitious Matrix: Inorganic Polymer Obtained by Acidic Activation. <i>Materials</i> , 2019, 12, 442.	2.9	36
56	Identifying hotspots of environmental impact in the development of novel inorganic polymer paving blocks from bauxite residue. <i>Resources, Conservation and Recycling</i> , 2018, 138, 87-98.	10.8	34
57	Progress and Prospects in the Field of Biomass and Waste to Energy and Added-Value Materials. <i>Waste and Biomass Valorization</i> , 2017, 8, 1875-1884.	3.4	32
58	Inorganic Polymers From CaO-FeOx-SiO <sub>2</sub> Slag: The Start of Oxidation of Fe and the Formation of a Mixed Valence Binder. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	32
59	Valorisation of different types of boron-containing wastes for the production of lightweight aggregates. <i>Journal of Hazardous Materials</i> , 2011, 185, 1381-1389.	12.4	29
60	Integrated Mineral Carbonation Reactor Technology for Sustainable Carbon Dioxide Sequestration: "CO <sub>2</sub> Energy Reactor"™. <i>Energy Procedia</i> , 2013, 37, 5884-5891.	1.8	26
61	Incorporating Cs and Sr into blast furnace slag inorganic polymers and their effect on matrix properties. <i>Journal of Nuclear Materials</i> , 2018, 503, 1-12.	2.7	26
62	Porous, Sintered Glass-Ceramics from Inorganic Polymers Based on Fayalite Slag. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1985-1991.	3.8	25
63	Mud2Metal: Lessons Learned on the Path for Complete Utilization of Bauxite Residue Through Industrial Symbiosis. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 551-560.	2.3	24
64	Transforming Enhanced Landfill Mining Derived Gasification/Vitrification Glass into Low-Carbon Inorganic Polymer Binders and Building Products. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 405-415.	2.3	24
65	Radiological and leaching assessment of an ettringite-based mortar from ladle slag and phosphogypsum. <i>Cement and Concrete Research</i> , 2020, 128, 105954.	11.0	24
66	Unraveling the nano-structure of a glassy CaO-FeO-SiO <sub>2</sub> slag by molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2020, 528, 119771.	3.1	23
67	Classical and alternative fuel mix optimization in cement production using mathematical programming. <i>Fuel</i> , 2011, 90, 1277-1284.	6.4	22
68	Magnetic Glass Ceramics by Sintering of Borosilicate Glass and Inorganic Waste. <i>Materials</i> , 2014, 7, 5565-5580.	2.9	22
69	Radon immobilization potential of alkali-activated materials containing ground granulated blast furnace slag and phosphogypsum. <i>Construction and Building Materials</i> , 2018, 184, 68-75.	7.2	22
70	Impact of the solidification path of FeO <sub>x</sub> -SiO <sub>2</sub> slags on the resultant inorganic polymers. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2173-2184.	3.8	21
71	Influence of CaO/FeO ratio on the formation mechanism and properties of alkali-activated Fe-rich slags. <i>Cement and Concrete Research</i> , 2021, 146, 106466.	11.0	20
72	The influence of air and temperature on the reaction mechanism and molecular structure of Fe-silicate inorganic polymers. <i>Journal of Non-Crystalline Solids</i> , 2019, 526, 119675.	3.1	19

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73	Modifications of basic-oxygen-furnace slag microstructure and their effect on the rheology and the strength of alkali-activated binders. <i>Cement and Concrete Composites</i> , 2019, 97, 143-153.	10.7	19
74	Reaction kinetics and structural analysis of alkali activated Fe-Si-Ca rich materials. <i>Journal of Cleaner Production</i> , 2020, 246, 119065.	9.3	19
75	Comparative Analysis of Processes for Recovery of Rare Earths from Bauxite Residue. <i>Jom</i> , 2016, 68, 2958-2962.	1.9	18
76	Radiological and non-radiological leaching assessment of alkali-activated materials containing ground granulated blast furnace slag and phosphogypsum. <i>Science of the Total Environment</i> , 2019, 660, 1098-1107.	8.0	18
77	Shrinkage and Mitigation Strategies to Improve the Dimensional Stability of CaO-FeOx-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Inorganic Polymers. <i>Materials</i> , 2019, 12, 3679.	2.9	18
78	Alkali Activation of AOD Stainless Steel Slag Under Steam Curing Conditions. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3062-3074.	3.8	17
79	The influence of porosity on radon emanation in alkali-activated mortars containing high volume bauxite residue. <i>Construction and Building Materials</i> , 2020, 230, 116982.	7.2	17
80	Evolution of microstructure, mineralogy and properties during firing of clay-based ceramics with borates. <i>Ceramics International</i> , 2010, 36, 567-575.	4.8	16
81	Stabilisation and Microstructural Modification of Stainless Steel Converter Slag by Addition of an Alumina Rich By-Product. <i>Waste and Biomass Valorization</i> , 2014, 5, 343-353.	3.4	16
82	The role of nano-perovskite in the negligible thorium release in seawater from Greek bauxite residue (red mud). <i>Scientific Reports</i> , 2016, 6, 21737.	3.3	16
83	Silica-Carbon Nanocomposite Acid Catalyst with Large Mesopore Interconnectivity by Vapor-Phase Assisted Hydrothermal Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7859-7870.	6.7	15
84	In-situ measurements of high-temperature dielectric properties of municipal solid waste incinerator bottom ash. <i>Ceramics International</i> , 2019, 45, 18751-18759.	4.8	15
85	A new approach for the vitrification of municipal solid waste incinerator bottom ash by microwave irradiation. <i>Journal of Cleaner Production</i> , 2021, 284, 124787.	9.3	15
86	On a new hydraulic binder from stainless steel converter slag. <i>Advances in Cement Research</i> , 2013, 25, 21-31.	1.6	14
87	Hydraulic Behavior of Mechanically and Chemically Activated Synthetic Merwinite. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3973-3981.	3.8	13
88	Understanding the leaching behavior of inorganic polymers made of iron rich slags. <i>Journal of Cleaner Production</i> , 2019, 238, 117736.	9.3	13
89	Valorising Slags from Non-ferrous Metallurgy into Hybrid Cementitious Binders: Mix Design and Performance. <i>Waste and Biomass Valorization</i> , 2021, 12, 4679-4694.	3.4	13
90	Evaluating the material resource efficiency of secondary aluminium production: A Monte Carlo-based decision-support tool. <i>Journal of Cleaner Production</i> , 2019, 215, 488-496.	9.3	12

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91	Porous glass-ceramics made from microwave vitrified municipal solid waste incinerator bottom ash. <i>Construction and Building Materials</i> , 2021, 270, 121452.	7.2	12
92	Recycling and valorization of glass fibre thermoset composite waste by cold incorporation into a sustainable inorganic polymer matrix. <i>Composites Part B: Engineering</i> , 2021, 223, 109120.	12.0	12
93	Transformation of stainless steel slag toward a reactive cementitious binder. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1727-1736.	3.8	12
94	Correlating the amorphous phase structure of vitrified bauxite residue (red mud) to the initial reactivity in binder systems. <i>Cement and Concrete Composites</i> , 2022, 127, 104410.	10.7	12
95	The effect of gamma radiation on the mechanical and microstructural properties of Fe-rich inorganic polymers. <i>Journal of Nuclear Materials</i> , 2019, 521, 126-136.	2.7	11
96	Iron-rich slag addition in ternary binders of Portland cement, aluminate cement and calcium sulfate. <i>Cement and Concrete Research</i> , 2022, 153, 106689.	11.0	10
97	Characterization of bauxite residue (red mud) for 235 U, 238 U, 232 Th and 40 K using neutron activation analysis and the radiation dose levels as modeled by MCNP. <i>Journal of Environmental Radioactivity</i> , 2017, 173, 97-101.	1.7	9
98	Rheology of an alkali-activated Fe-rich slag suspension: Identifying the impact of the activator chemistry and slag particle interactions. <i>Journal of Non-Crystalline Solids</i> , 2021, 561, 120747.	3.1	9
99	Investigating the binding potential of continuous casting stainless steel slag by alkali activation. <i>Advances in Cement Research</i> , 2014, 26, 256-270.	1.6	8
100	Kinetics of pore formation and resulting properties of lightweight inorganic polymers. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3940-3950.	3.8	8
101	Hydrogen reduction of bauxite residue and selective metal recovery. <i>Materials Today: Proceedings</i> , 2022, 57, 705-710.	1.8	8
102	High-Temperature Behavior of CaO-FeOx-Al2O3-SiO2-Rich Alkali Activated Materials. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2572.	2.5	8
103	High performance mortars from vitrified bauxite residue; the quest for the optimal chemistry and processing conditions. <i>Cement and Concrete Research</i> , 2022, 155, 106739.	11.0	8
104	Revisiting the iron-rich "ordinary Portland cement" towards valorisation of wastes: study of Fe-to-Al ratio on the clinker production and the hydration reaction. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	3.1	7
105	Properties of calcium aluminate blended cement incorporating iron-rich slag: Evolution over a curing period of 1 year. <i>Construction and Building Materials</i> , 2021, 282, 122569.	7.2	7
106	Cementitious Binders Incorporating Residues. , 2014, , 219-229.		6
107	Scalable Synthesis of Acidic Mesostructured Silica-Carbon Nanocomposite Catalysts by Rotary Evaporation. <i>ChemCatChem</i> , 2017, 9, 65-69.	3.7	6
108	The effect of high dose rate gamma irradiation on the curing of CaO-FexOy-SiO2 slag based inorganic polymers: Mechanical and microstructural analysis. <i>Journal of Nuclear Materials</i> , 2020, 539, 152237.	2.7	6



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109	New Insights into the Mineralogy and Geochemistry of Sb Ores from Greece. Minerals (Basel), Tj ETQq1 1 0.784314.rgBT /Overlock 10T	2.9	6
110	Micromechanical and microstructural analysis of Fe-rich plasma slag-based inorganic polymers. Cement and Concrete Composites, 2021, 118, 103968.	10.7	6
111	Slag Valorisation as a Contribution to Zero-Waste Metallurgy. Journal of Sustainable Metallurgy, 2016, 2, 1-2.	2.3	5
112	Experimental and Mathematical Simulation Study on the Granulation of a Modified Basic Oxygen Furnace Steel Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1260-1268.	2.1	4
113	Shielding effectiveness of construction materials. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 137-144.	0.6	4
114	Preface to the 5th International Slag Valorisation Symposium: From Fundamentals to Applications. Journal of Sustainable Metallurgy, 2018, 4, 1-2.	2.3	3
115	Recovery of Rare Earths from Bauxite Residue (Red Mud). World Scientific Series in Current Energy Issues, 2019, , 343-356.	0.1	3
116	An integrated process for iron recovery and binder production from bauxite residue (red mud). Materials Letters, 2020, 264, 127273.	2.6	3
117	VALORISATION OF STAINLESS STEEL SLAGS AS A HYDRAULIC BINDER. Acta Metallurgica Slovaca, 2013, 19, 176-183.	0.7	3
118	INCREASING THE DIMENSIONAL STABILITY OF CAO-FEOX-AL2O3-SIO2 ALKALI-ACTIVATED MATERIALS: ON THE SWELLING POTENTIAL OF CALCIUM OXIDE-RICH ADMIXTURES. Detritus, 2019, Volume 08 - December 2019, 1.	0.9	3
119	H2-Based Processes for Fe and Al Recovery from Bauxite Residue (Red Mud): Comparing the Options. Materials Proceedings, 2021, 5, .	0.2	3
120	Forming zeolites and calcium silicate hydrates in Fe-rich, slag-based, porous inorganic polymers. Cement and Concrete Research, 2022, 153, 106655.	11.0	3
121	Alteration in molecular structure of alkali activated slag with various water to binder ratios under accelerated carbonation. Scientific Reports, 2022, 12, 5524.	3.3	3
122	Bauxite Residue Valorization and Best Practices: Preface for the Thematic Section and Some of the Work to Follow. Journal of Sustainable Metallurgy, 2016, 2, 313-315.	2.3	2
123	Synthesis of Inorganic Polymers Using a CaO-Al <sub>2</sub> O <sub>3</sub> -FeO-SiO <sub>2</sub> Slag. Advances in Science and Technology, 2014, 92, 32-37.	0.2	1
124	Scalable Synthesis of Acidic Mesostructured Silica-Carbon Nanocomposite Catalysts by Rotary Evaporation. ChemCatChem, 2017, 9, 3-3.	3.7	1
125	The Use of Alkali Activated Materials in Nuclear Industry. , 2020, , 537-556.		1
126	Performance of Fe-Rich Alkali-Activated Materials in Na2SO4 Solution: Role of MgO/(MgO + CaO) in the Slag. , 2022, 5, .		0



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127	Towards Sustainable Inorganic Polymers: Production and Use of Alternative Activator. , 2022, 5, .		0
128	The Development and Assessment of Alkali Activated Paving Blocks. , 0, , .		0
129	Formation of ceramics from K-activated FeOx-(Al <sub>2</sub> O <sub>3</sub> )-SiO <sub>2</sub> inorganic polymers: effect of Al/K and Si/K molar ratio. Journal of the European Ceramic Society, 2022, , .	5.7	0