

MarÃ-a Victoria Borrachero

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Potential use of ceramic sanitary ware waste as pozzolanic material. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2022, 61, 611-621.	1.9	11
2	Activadores alternativos para cementos de activación alcalina. Revista ALCONPAT, 2022, 12, 16-31.	0.3	3
3	Durability of Glass Fiber Reinforced Cement (GRC) Containing a High Proportion of Pozzolans. Applied Sciences (Switzerland), 2022, 12, 3696.	2.5	2
4	Hybrid Lime-Pozzolan Geopolymer Systems: Microstructural, Mechanical and Durability Studies. Materials, 2022, 15, 2736.	2.9	2
5	The role of dissolved rice husk ash in the development of binary blast furnace slag-sewage sludge ash alkali-activated mortars. Journal of Building Engineering, 2022, 52, 104472.	3.4	3
6	Reusing Construction and Demolition Waste to Prepare Alkali-Activated Cement. Materials, 2022, 15, 3437.	2.9	11
7	Comparison of original and washed pure sugar cane bagasse ashes as supplementary cementing materials. Construction and Building Materials, 2021, 272, 122001.	7.2	15
8	Lime/pozzolan/geopolymer systems: Performance in pastes and mortars. Construction and Building Materials, 2021, 276, 122208.	7.2	10
9	Air-Void System Characterization of Eco-Cellular Concretes. Journal of Materials in Civil Engineering, 2021, 33, 04021088.	2.9	0
10	Evaluation of the Pozzolanic Activity of Uncontrolled-Combusted Sewage Sludge Ash. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	2
11	Evaluation of the long-term compressive strength development of the sewage sludge ash/metakaolin-based geopolymer. Materiales De Construcción, 2021, 71, e254.	0.7	3
12	Almond-shell biomass ash (ABA): A greener alternative to the use of commercial alkaline reagents in alkali-activated cement. Construction and Building Materials, 2021, 290, 123251.	7.2	14
13	Evaluation of Rice Straw Ash as a Pozzolanic Addition in Cementitious Mixtures. Applied Sciences (Switzerland), 2021, 11, 773.	2.5	14
14	Design and properties of 100% waste-based ternary alkali-activated mortars: Blast furnace slag, olive-stone biomass ash and rice husk ash. Journal of Cleaner Production, 2020, 243, 118568.	9.3	62
15	Stabilization of soil by means alternative alkali-activated cement prepared with spent FCC catalyst. International Journal of Applied Ceramic Technology, 2020, 17, 190-196.	2.1	1
16	Formulation of Alkali-Activated Slag Binder Destined for Use in Developing Countries. Applied Sciences (Switzerland), 2020, 10, 9088.	2.5	3
17	Sustainable Soil-Compacted Blocks Containing Blast Furnace Slag (BFS) Activated with Olive Stone BIOMASS Ash (OBA). Sustainability, 2020, 12, 9824.	3.2	4
18	One-part eco-cellular concrete for the precast industry: Functional features and life cycle assessment. Journal of Cleaner Production, 2020, 269, 122203.	9.3	21

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19	One-part blast furnace slag mortars activated with almond-shell biomass ash: A new 100% waste-based material. <i>Materials Letters</i> , 2020, 272, 127882.	2.6	21
20	Effect of different high surface area silicas on the rheology of cement paste. <i>Materiales De Construccion</i> , 2020, 70, 231.	0.7	4
21	Effect of sewage sludge ash on mechanical and microstructural properties of geopolymers based on metakaolin. <i>Construction and Building Materials</i> , 2019, 203, 95-103.	7.2	42
22	Nonlinear Acoustic Spectroscopy and Frequency Sweep Ultrasonics: Case on Thermal Damage Assessment in Mortar. <i>Journal of Nondestructive Evaluation</i> , 2019, 38, 1.	2.4	4
23	Production of bamboo leaf ash by auto-combustion for pozzolanic and sustainable use in cementitious matrices. <i>Construction and Building Materials</i> , 2019, 208, 369-380.	7.2	31
24	Application of alkali-activated industrial waste. , 2019, , 357-424.		17
25	Sewage sludge ash. , 2019, , 121-152.		9
26	Use of residual diatomaceous earth as a silica source in geopolymer production. <i>Materials Letters</i> , 2018, 223, 10-13.	2.6	32
27	Influence of calcium additions on the compressive strength and microstructure of alkali-activated ceramic sanitary-ware. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3094-3104.	3.8	20
28	Mineralogical evolution of cement pastes at early ages based on thermogravimetric analysis (TG). <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 39-46.	3.6	31
29	New use of sugar cane straw ash in alkali-activated materials: A silica source for the preparation of the alkaline activator. <i>Construction and Building Materials</i> , 2018, 171, 611-621.	7.2	57
30	Optimum Use of Sugar Cane Straw Ash in Alkali-Activated Binders Based on Blast Furnace Slag. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, 04018084.	2.9	6
31	An Approach to a New Supplementary Cementing Material: Arundo donax Straw Ash. <i>Sustainability</i> , 2018, 10, 4273.	3.2	6
32	Microscopic Chemical Characterization and Reactivity in Cementing Systems of Elephant Grass Leaf Ashes. <i>Microscopy and Microanalysis</i> , 2018, 24, 593-603.	0.4	3
33	New eco-cellular concretes: sustainable and energy-efficient materials. <i>Green Chemistry</i> , 2018, 20, 4684-4694.	9.0	26
34	Effect of Pyrogenic Silica and Nanosilica on Portland Cement Matrices. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	2.9	10
35	Olive-stone biomass ash (OBA): An alternative alkaline source for the blast furnace slag activation. <i>Construction and Building Materials</i> , 2018, 178, 327-338.	7.2	52
36	Influence of Addition of Fluid Catalytic Cracking Residue (FCC) and the SiO ₂ Concentration in Alkali-Activated Ceramic Sanitary-Ware (CSW) Binders. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 123.	2.0	13

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37	The Compressive Strength and Microstructure of Alkali-Activated Binary Cements Developed by Combining Ceramic Sanitaryware with Fly Ash or Blast Furnace Slag. Minerals (Basel, Switzerland), 2018, 8, 337.	2.0	5
38	Influence of microwave oven calcination on the pozzolanicity of sugar cane bagasse ashes (SCBA) from the cogeneration industry. Construction and Building Materials, 2018, 187, 892-902.	7.2	19
39	Bagasse ash. , 2018, , 559-598.		19
40	Resistance to acid attack of alkali-activated binders: Simple new techniques to measure susceptibility. Construction and Building Materials, 2017, 150, 355-366.	7.2	23
41	A 100% waste-based alkali-activated material by using olive-stone biomass ash (OBA) and blast furnace slag (BFS). Materials Letters, 2017, 203, 46-49.	2.6	44
42	Effect of sugar cane straw ash (SCSA) as solid precursor and the alkaline activator composition on alkali-activated binders based on blast furnace slag (BFS). Construction and Building Materials, 2017, 144, 214-224.	7.2	34
43	Geopolymer eco-cellular concrete (GECC) based on fluid catalytic cracking catalyst residue (FCC) with addition of recycled aluminium foil powder. Journal of Cleaner Production, 2017, 168, 1120-1131.	9.3	28
44	Compressive strength and microstructure of alkali-activated mortars with high ceramic waste content. Ceramics International, 2017, 43, 13622-13634.	4.8	55
45	Compressive Strength and Microstructure of Alkali-Activated Blast Furnace Slag/Sewage Sludge Ash (GGBS/SSA) Blends Cured at Room Temperature. Waste and Biomass Valorization, 2017, 8, 1441-1451.	3.4	32
46	New inorganic binders containing ashes from agricultural wastes. , 2017, , 127-164.		7
47	Preliminary studies on hydrated cement for its reuse in geopolymers. DYNA (Colombia), 2016, 83, 229-238.	0.4	3
48	Portland cement, gypsum and fly ash binder systems characterization for lignocellulosic fiber-cement. Construction and Building Materials, 2016, 124, 208-218.	7.2	25
49	Ceramic tiles waste as replacement material in Portland cement. Advances in Cement Research, 2016, 28, 221-232.	1.6	41
50	Increasing the sustainability of alkali-activated binders: The use of sugar cane straw ash (SCSA). Construction and Building Materials, 2016, 124, 148-154.	7.2	42
51	Behaviour of metakaolin-based geopolymers incorporating sewage sludge ash (SSA). Materials Letters, 2016, 180, 192-195.	2.6	35
52	Pozzolanic Reactivity Studies on a Biomass-Derived Waste from Sugar Cane Production: Sugar Cane Straw Ash (SCSA). ACS Sustainable Chemistry and Engineering, 2016, 4, 4273-4279.	6.7	15
53	High strength mortars using ordinary Portland cement+fly ash+fluid catalytic cracking catalyst residue ternary system (OPC/FA/FCC). Construction and Building Materials, 2016, 106, 228-235.	7.2	33
54	Evaluation of the pozzolanic activity of spent FCC catalyst/fly ash mixtures in Portland cement pastes. Thermochemica Acta, 2016, 632, 29-36.	2.7	50

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55	Study of the binary system fly ash/sugarcane bagasse ash (FA/SCBA) in SiO ₂ /K ₂ O alkali-activated binders. <i>Fuel</i> , 2016, 174, 307-316.	6.4	44
56	Use of ancient copper slags in Portland cement and alkali activated cement matrices. <i>Journal of Environmental Management</i> , 2016, 167, 115-123.	7.8	76
57	Influence of calcium aluminate cement (CAC) on alkaline activation of red clay brick waste (RCBW). <i>Cement and Concrete Composites</i> , 2016, 65, 177-185.	10.7	60
58	Caracterización de escorias de cobre de fundiciones chilenas del Siglo XIX. <i>Revista De Metalurgia</i> , 2016, 52, 083.	0.5	5
59	Preliminary study on short-term sulphate attack evaluation by non-linear impact resonance acoustic spectroscopy technique. <i>Construction and Building Materials</i> , 2015, 78, 295-302.	7.2	17
60	Assessment of sugar cane straw ash (SCSA) as pozzolanic material in blended Portland cement: Microstructural characterization of pastes and mechanical strength of mortars. <i>Construction and Building Materials</i> , 2015, 94, 670-677.	7.2	77
61	The effects of moisture and micro-structural modifications in drying mortars on vibration-based NDT methods. <i>Construction and Building Materials</i> , 2015, 94, 565-571.	7.2	23
62	Effect of carbonation on the linear and nonlinear dynamic properties of cement-based materials. <i>Optical Engineering</i> , 2015, 55, 011004.	1.0	8
63	Mechanical and durability properties of alkali-activated mortar based on sugarcane bagasse ash and blast furnace slag. <i>Ceramics International</i> , 2015, 41, 13012-13024.	4.8	93
64	Spent FCC Catalyst for Preparing Alkali-Activated Binders: An Opportunity for a High-Degree Valorization. <i>Key Engineering Materials</i> , 2014, 600, 709-716.	0.4	7
65	Assessment of the Pozzolanic Activity of a Spent Catalyst by Conductivity Measurement of Aqueous Suspensions with Calcium Hydroxide. <i>Materials</i> , 2014, 7, 2561-2576.	2.9	11
66	Assessment of Pozzolanic Activity Using Methods Based on the Measurement of Electrical Conductivity of Suspensions of Portland Cement and Pozzolan. <i>Materials</i> , 2014, 7, 7533-7547.	2.9	9
67	Carbon footprint of geopolymetric mortar: study of the contribution of the alkaline activating solution and assessment of an alternative route. <i>RSC Advances</i> , 2014, 4, 23846-23852.	3.6	115
68	Influence of the activator concentration and calcium hydroxide addition on the properties of alkali-activated porcelain stoneware. <i>Construction and Building Materials</i> , 2014, 63, 214-222.	7.2	52
69	Refluxed rice husk ash/NaOH suspension for preparing alkali activated binders. <i>Materials Letters</i> , 2014, 115, 72-74.	2.6	79
70	New method to assess the pozzolanic reactivity of mineral admixtures by means of pH and electrical conductivity measurements in lime:pozzolan suspensions. <i>Materiales De Construccion</i> , 2014, 64, e032.	0.7	18
71	Potential use of sewage sludge ash (SSA) as a cement replacement in precast concrete blocks. <i>Materiales De Construccion</i> , 2014, 64, e002.	0.7	24
72	Effect of pozzolans on the hydration process of Portland cement cured at low temperatures. <i>Cement and Concrete Composites</i> , 2013, 42, 41-48.	10.7	62

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73	Alkaline Activation of Ceramic Waste Materials. <i>Waste and Biomass Valorization</i> , 2013, 4, 729-736.	3.4	114
74	Use of highly reactive rice husk ash in the production of cement matrix reinforced with green coconut fiber. <i>Industrial Crops and Products</i> , 2013, 49, 88-96.	5.2	53
75	Effect of curing time on microstructure and mechanical strength development of alkali activated binders based on vitreous calcium aluminosilicate (VCAS). <i>Bulletin of Materials Science</i> , 2013, 36, 245-249.	1.7	20
76	Alkali activated materials based on fluid catalytic cracking catalyst residue (FCC): Influence of SiO ₂ /Na ₂ O and H ₂ O/FCC ratio on mechanical strength and microstructure. <i>Fuel</i> , 2013, 108, 833-839.	6.4	45
77	Effect of nanosilica-based activators on the performance of an alkali-activated fly ash binder. <i>Cement and Concrete Composites</i> , 2013, 35, 1-11.	10.7	142
78	Mechanical and physical performance of low alkalinity cementitious composites reinforced with recycled cellulosic fibres pulp from cement kraft bags. <i>Industrial Crops and Products</i> , 2013, 49, 422-427.	5.2	39
79	Geopolymers based on spent catalyst residue from a fluid catalytic cracking (FCC) process. <i>Fuel</i> , 2013, 109, 493-502.	6.4	66
80	The use of electrical impedance spectroscopy for monitoring the hydration products of Portland cement mortars with high percentage of pozzolans. <i>Cement and Concrete Research</i> , 2013, 50, 51-61.	11.0	79
81	Properties and microstructure of alkali-activated red clay brick waste. <i>Construction and Building Materials</i> , 2013, 43, 98-106.	7.2	252
82	Cement equivalence factor evaluations for fluid catalytic cracking catalyst residue. <i>Cement and Concrete Composites</i> , 2013, 39, 12-17.	10.7	28
83	Use of Slag/Sugar Cane Bagasse Ash (SCBA) Blends in the Production of Alkali-Activated Materials. <i>Materials</i> , 2013, 6, 3108-3127.	2.9	93
84	Pozzolanic reaction rate of fluid catalytic cracking catalyst residue (FC3R) in cement pastes. <i>Advances in Cement Research</i> , 2013, 25, 112-118.	1.6	20
85	Efecto de un aditivo extraído de la planta <i>Agave americana</i> sobre las propiedades físicas y mecánicas de un yeso. <i>Materiales De Construccion</i> , 2013, 63, 79-92.	0.7	1
86	Mechanical Strength of Lime-Rice Husk Ash Mortars: A Preliminary Study. <i>Key Engineering Materials</i> , 2012, 517, 495-499.	0.4	8
87	Alkali activation of vitreous calcium aluminosilicate derived from glass fiber waste. <i>Journal of Sustainable Cement-Based Materials</i> , 2012, 1, 83-93.	3.1	18
88	Mineralogical evolution of Portland cement blended with silica nanoparticles and its effect on mechanical strength. <i>Construction and Building Materials</i> , 2012, 36, 736-742.	7.2	80
89	Structure of Portland Cement Pastes Blended with Sonicated Silica Fume. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 1295-1304.	2.9	25
90	A new geopolymeric binder from hydrated-carbonated cement. <i>Materials Letters</i> , 2012, 74, 223-225.	2.6	29

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91	New geopolymeric binder based on fluid catalytic cracking catalyst residue (FCC). <i>Materials Letters</i> , 2012, 80, 50-52.	2.6	54
92	Increase of the reactivity of densified silica fume by sonication treatment. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 1099-1107.	8.2	32
93	Accelerated carbonation of cement pastes partially substituted with fluid catalytic cracking catalyst residue (FC3R). <i>Cement and Concrete Composites</i> , 2009, 31, 134-138.	10.7	23
94	The carbonation of OPC mortars partially substituted with spent fluid catalytic catalyst (FC3R) and its influence on their mechanical properties. <i>Construction and Building Materials</i> , 2009, 23, 1323-1328.	7.2	23
95	Estudio del comportamiento de diversos residuos de catalizadores de craqueo catalítico (FCC) en cemento Portland. <i>Materiales De Construccion</i> , 2009, 59, 37-52.	0.7	14
96	Mechanical and physical properties of cement blended with sewage sludge ash. <i>Waste Management</i> , 2008, 28, 2495-2502.	7.4	110
97	Granulometric activation of densified silica fume (CSF) by sonication. <i>Advances in Cement Research</i> , 2008, 20, 129-135.	1.6	15
98	Compatibility of fluid catalytic cracking catalyst residue (FC3R) with various types of cement. <i>Advances in Cement Research</i> , 2007, 19, 117-124.	1.6	15
99	The chemical activation of pozzolanic reaction of fluid catalytic cracking catalyst residue (FC3R) in lime pastes. <i>Advances in Cement Research</i> , 2007, 19, 9-16.	1.6	12
100	Reusing fly ash in glass fibre reinforced cement: A new generation of high-quality GRC composites. <i>Waste Management</i> , 2007, 27, 1416-1421.	7.4	16
101	Chemical activation of pozzolanic reaction of fluid catalytic cracking catalyst residue (FC3R) in lime pastes: thermal analysis. <i>Advances in Cement Research</i> , 2004, 16, 123-130.	1.6	7
102	Evaluation of the pozzolanic activity of fluid catalytic cracking catalyst residue (FC3R). Thermogravimetric analysis studies on FC3R-Portland cement pastes. <i>Cement and Concrete Research</i> , 2003, 33, 603-609.	11.0	135
103	Determination of the pozzolanic activity of fluid catalytic cracking residue. Thermogravimetric analysis studies on FC3R-“lime pastes. <i>Cement and Concrete Research</i> , 2003, 33, 1085-1091.	11.0	93
104	Reuse of sewage sludge ashes (SSA) in cement mixtures: the effect of SSA on the workability of cement mortars. <i>Waste Management</i> , 2003, 23, 373-381.	7.4	130
105	Physical, chemical and mechanical properties of fluid catalytic cracking catalyst residue (FC3R) blended cements. <i>Cement and Concrete Research</i> , 2001, 31, 57-61.	11.0	68
106	Enhanced conductivity measurement techniques for evaluation of fly ash pozzolanic activity. <i>Cement and Concrete Research</i> , 2001, 31, 41-49.	11.0	116
107	Determination of amorphous silica in rice husk ash by a rapid analytical method. <i>Cement and Concrete Research</i> , 2001, 31, 227-231.	11.0	91
108	Characterization of lagoon sediments and their pollutant charge. Proposals for reusing. <i>Waste Management Series</i> , 2000, 1, 1014-1021.	0.0	1

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109	Mechanical treatment of fly ashes. Cement and Concrete Research, 2000, 30, 543-551.	11.0	74
110	Studies on crystalline rice husk ashes and the activation of their pozzolanic properties. Waste Management Series, 2000, 1, 493-503.	0.0	8
111	Properties of Portland cement mortars incorporating high amounts of oil-fuel ashes. Waste Management, 1999, 19, 1-7.	7.4	16
112	Mechanical behavior of mortars containing sewage sludge ash (SSA) and Portland cements with different tricalcium aluminate content. Cement and Concrete Research, 1999, 29, 87-94.	11.0	93
113	Fluid catalytic cracking catalyst residue (FC3R). Cement and Concrete Research, 1999, 29, 1773-1779.	11.0	103
114	Thermogravimetric Methods for Determining Carbon Content in Fly Ashes. Cement and Concrete Research, 1998, 28, 675-686.	11.0	74
115	Study of Cement-Based Mortars Containing Spanish Ground Sewage Sludge Ash. Studies in Environmental Science, 1997, 71, 349-354.	0.0	14
116	Mechanical treatments of fly ashes. Part III: Studies on strength development of ground fly ashes (GFA) in Cement mortars. Cement and Concrete Research, 1997, 27, 1365-1377.	11.0	90
117	Mechanical treatment of fly ashes part II: Particle morphologies in ground fly ashes (GFA) and workability of GFA-cement mortars. Cement and Concrete Research, 1996, 26, 225-235.	11.0	98
118	Use of sewage sludge ash(SSA)-cement admixtures in mortars. Cement and Concrete Research, 1996, 26, 1389-1398.	11.0	103
119	Comparisons among magnetic and non-magnetic fly ash fractions: Strength development of cement-fly ash mortars. Waste Management, 1996, 16, 119-124.	7.4	27
120	Mechanical treatment of fly ashes. Part I: Physico-chemical characterization of ground fly ashes. Cement and Concrete Research, 1995, 25, 1469-1479.	11.0	115
121	Early-strength development of portland cement mortars containing air classified fly ashes. Cement and Concrete Research, 1995, 25, 449-456.	11.0	60
122	Improvement of Portland Cement/Fly Ash Mortars Strength Using Classified Fly Ashes. Studies in Environmental Science, 1994, 60, 563-570.	0.0	3
123	Orthometallation reaction in dirhodium(II) compounds. Selective formation of doubly-metallated compounds with head-to-head structure. Polyhedron, 1993, 12, 1715-1717.	2.2	11
124	Preliminary Studies on the use of Sugar Cane Bagasse Ash (SCBA) in the Manufacture of Alkali Activated Binders. Key Engineering Materials, 0, 600, 689-698.	0.4	12