

Mara Victoria Borrachero

List of Publications by Citations

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120
papers

3,555
citations

35
h-index

55
g-index

124
ext. papers

4,145
ext. citations

5.3
avg, IF

5.25
L-index

#	Paper	IF	Citations
120	Properties and microstructure of alkali-activated red clay brick waste. <i>Construction and Building Materials</i> , 2013 , 43, 98-106	6.7	176
119	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	10.3	113
118	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	8.6	106
117	Mechanical treatment of fly ashes. Part I: Physico-chemical characterization of ground fly ashes. <i>Cement and Concrete Research</i> , 1995 , 25, 1469-1479	10.3	104
116	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, 373-81	8.6	100
115	Enhanced conductivity measurement techniques for evaluation of fly ash pozzolanic activity. <i>Cement and Concrete Research</i> , 2001 , 31, 41-49	10.3	90
114	Mechanical treatment of fly ashes part II: Particle morphologies in ground fly ashes (GFA) and workability of GFA-cement mortars. <i>Cement and Concrete Research</i> , 1996 , 26, 225-235	10.3	90
113	Fluid catalytic cracking catalyst residue (FC3R). <i>Cement and Concrete Research</i> , 1999 , 29, 1773-1779	10.3	88
112	Alkaline Activation of Ceramic Waste Materials. <i>Waste and Biomass Valorization</i> , 2013 , 4, 729-736	3.2	87
111	Use of sewage sludge ash(SSA)-cement admixtures in mortars. <i>Cement and Concrete Research</i> , 1996 , 26, 1389-1398	10.3	87
110	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	3.7	85
109	Mechanical and physical properties of cement blended with sewage sludge ash. <i>Waste Management</i> , 2008 , 28, 2495-502	8.6	84
108	Determination of amorphous silica in rice husk ash by a rapid analytical method. <i>Cement and Concrete Research</i> , 2001 , 31, 227-231	10.3	83
107	Mechanical behavior of mortars containing sewage sludge ash (SSA) and Portland cements with different tricalcium aluminate content. <i>Cement and Concrete Research</i> , 1999 , 29, 87-94	10.3	80
106	Mechanical treatments of fly ashes. Part III: Studies on strength development of ground fly ashes (GFA) [Cement mortars. <i>Cement and Concrete Research</i> , 1997 , 27, 1365-1377	10.3	77
105	Determination of the pozzolanic activity of fluid catalytic cracking residue. Thermogravimetric analysis studies on FC3R-cement pastes. <i>Cement and Concrete Research</i> , 2003 , 33, 1085-1091	10.3	74
104	Use of Slag/Sugar Cane Bagasse Ash (SCBA) Blends in the Production of Alkali-Activated Materials. <i>Materials</i> , 2013 , 6, 3108-3127	3.5	73

103	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	5.1	65
102	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	6.7	64
101	Thermogravimetric Methods for Determining Carbon Content in Fly Ashes. <i>Cement and Concrete Research</i> , 1998 , 28, 675-686	10.3	64
100	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	6.7	63
99	Mechanical treatment of fly ashes. <i>Cement and Concrete Research</i> , 2000 , 30, 543-551	10.3	60
98	Physical, chemical and mechanical properties of fluid catalytic cracking catalyst residue (FC3R) blended cements. <i>Cement and Concrete Research</i> , 2001 , 31, 57-61	10.3	56
97	Early-strength development of portland cement mortars containing air classified fly ashes. <i>Cement and Concrete Research</i> , 1995 , 25, 449-456	10.3	53
96	Refluxed rice husk ash/NaOH suspension for preparing alkali activated binders. <i>Materials Letters</i> , 2014 , 115, 72-74	3.3	52
95	Geopolymers based on spent catalyst residue from a fluid catalytic cracking (FCC) process. <i>Fuel</i> , 2013 , 109, 493-502	7.1	52
94	Use of ancient copper slags in Portland cement and alkali activated cement matrices. <i>Journal of Environmental Management</i> , 2016 , 167, 115-23	7.9	50
93	New geopolymeric binder based on fluid catalytic cracking catalyst residue (FCC). <i>Materials Letters</i> , 2012 , 80, 50-52	3.3	49
92	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	10.3	49
91	Effect of pozzolans on the hydration process of Portland cement cured at low temperatures. <i>Cement and Concrete Composites</i> , 2013 , 42, 41-48	8.6	43
90	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	5.9	43
89	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	8.6	40
88	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	7.1	38
87	Compressive strength and microstructure of alkali-activated mortars with high ceramic waste content. <i>Ceramics International</i> , 2017 , 43, 13622-13634	5.1	38
86	Design and properties of 100% waste-based ternary alkali-activated mortars: Blast furnace slag, olive-stone biomass ash and rice husk ash. <i>Journal of Cleaner Production</i> , 2020 , 243, 118568	10.3	36

85	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	6.7	32
84	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	5.9	32
83	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	6.7	31
82	Evaluation of the pozzolanic activity of spent FCC catalyst/fly ash mixtures in Portland cement pastes. <i>Thermochimica Acta</i> , 2016 , 632, 29-36	2.9	30
81	A 100% waste-based alkali-activated material by using olive-stone biomass ash (OBA) and blast furnace slag (BFS). <i>Materials Letters</i> , 2017 , 203, 46-49	3.3	28
80	Increasing the sustainability of alkali-activated binders: The use of sugar cane straw ash (SCSA). <i>Construction and Building Materials</i> , 2016 , 124, 148-154	6.7	27
79	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	6.7	27
78	A new geopolymeric binder from hydrated-carbonated cement. <i>Materials Letters</i> , 2012 , 74, 223-225	3.3	27
77	Increase of the reactivity of densified silica fume by sonication treatment. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 1099-107	8.9	26
76	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	7.1	25
75	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	6.7	24
74	Comparisons among magnetic and non-magnetic fly ash fractions: Strength development of cement-fly ash mortars. <i>Waste Management</i> , 1996 , 16, 119-124	8.6	24
73	Geopolymer eco-cellular concrete (GECC) based on fluid catalytic cracking catalyst residue (FCC) with addition of recycled aluminium foil powder. <i>Journal of Cleaner Production</i> , 2017 , 168, 1120-1131	10.3	23
72	Structure of Portland Cement Pastes Blended with Sonicated Silica Fume. <i>Journal of Materials in Civil Engineering</i> , 2012 , 24, 1295-1304	3	23
71	Cement equivalence factor evaluations for fluid catalytic cracking catalyst residue. <i>Cement and Concrete Composites</i> , 2013 , 39, 12-17	8.6	22
70	High strength mortars using ordinary Portland cement fly ash fluid catalytic cracking catalyst residue ternary system (OPC/FA/FCC). <i>Construction and Building Materials</i> , 2016 , 106, 228-235	6.7	21
69	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). <i>Construction and Building Materials</i> , 2017 , 144, 214-224	6.7	20
68	New eco-cellular concretes: sustainable and energy-efficient materials. <i>Green Chemistry</i> , 2018 , 20, 4684-4694	4.6	20

67	Use of residual diatomaceous earth as a silica source in geopolymer production. <i>Materials Letters</i> , 2018 , 223, 10-13	3.3	19
66	Ceramic tiles waste as replacement material in Portland cement. <i>Advances in Cement Research</i> , 2016 , 28, 221-232	1.8	19
65	Accelerated carbonation of cement pastes partially substituted with fluid catalytic cracking catalyst residue (FC3R). <i>Cement and Concrete Composites</i> , 2009 , 31, 134-138	8.6	19
64	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	6.7	19
63	Portland cement, gypsum and fly ash binder systems characterization for lignocellulosic fiber-cement. <i>Construction and Building Materials</i> , 2016 , 124, 208-218	6.7	19
62	Behaviour of metakaolin-based geopolymers incorporating sewage sludge ash (SSA). <i>Materials Letters</i> , 2016 , 180, 192-195	3.3	18
61	Compressive Strength and Microstructure of Alkali-Activated Blast Furnace Slag/Sewage Sludge Ash (GGBS/SSA) Blends Cured at Room Temperature. <i>Waste and Biomass Valorization</i> , 2017 , 8, 1441-1451	3.2	18
60	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	6.7	17
59	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	6.7	17
58	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	17
57	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	6.7	17
56	Reusing fly ash in glass fibre reinforced cement: a new generation of high-quality GRC composites. <i>Waste Management</i> , 2007 , 27, 1416-21	8.6	16
55	Potential use of sewage sludge ash (SSA) as a cement replacement in precast concrete blocks. <i>Materiales De Construccion</i> , 2014 , 64, e002	1.8	16
54	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	4.1	15
53	Pozzolanic reaction rate of fluid catalytic cracking catalyst residue (FC3R) in cement pastes. <i>Advances in Cement Research</i> , 2013 , 25, 112-118	1.8	14
52	Alkali activation of vitreous calcium aluminosilicate derived from glass fiber waste. <i>Journal of Sustainable Cement-Based Materials</i> , 2012 , 1, 83-93	3.6	14
51	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	1.8	14
50	Bagasse ash 2018 , 559-598		13

49	Granulometric activation of densified silica fume (CSF) by sonication. <i>Advances in Cement Research</i> , 2008 , 20, 129-135	1.8	13
48	Compatibility of fluid catalytic cracking catalyst residue (FC3R) with various types of cement. <i>Advances in Cement Research</i> , 2007 , 19, 117-124	1.8	13
47	Properties of Portland cement mortars incorporating high amounts of oil-fuel ashes. <i>Waste Management</i> , 1999 , 19, 1-7	8.6	13
46	Estudio del comportamiento de diversos residuos de catalizadores de craqueo catalítico (FCC) en cemento Portland. <i>Materiales De Construccion</i> , 2009 , 59, 37-52	1.8	13
45	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	1.8	12
44	Resistance to acid attack of alkali-activated binders: Simple new techniques to measure susceptibility. <i>Construction and Building Materials</i> , 2017 , 150, 355-366	6.7	11
43	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	11
42	Pozzolanic Reactivity Studies on a Biomass-Derived Waste from Sugar Cane Production: Sugar Cane Straw Ash (SCSA). <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4273-4279	8.3	11
41	One-part eco-cellular concrete for the precast industry: Functional features and life cycle assessment. <i>Journal of Cleaner Production</i> , 2020 , 269, 122203	10.3	10
40	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	3.5	10
39	Preliminary Studies on the use of Sugar Cane Bagasse Ash (SCBA) in the Manufacture of Alkali Activated Binders. <i>Key Engineering Materials</i> , 2014 , 600, 689-698	0.4	10
38	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	3.3	9
37	Effect of Pyrogenic Silica and Nanosilica on Portland Cement Matrices. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018266	3	9
36	Influence of microwave oven calcination on the pozzolanicity of sugar cane bagasse ashes (SCBA) from the cogeneration industry. <i>Construction and Building Materials</i> , 2018 , 187, 892-902	6.7	9
35	Orthometallation reaction in dirhodium(II) compounds. Selective formation of doubly-metallated compounds with head-to-head structure. <i>Polyhedron</i> , 1993 , 12, 1715-1717	2.7	9
34	Study of Cement-Based Mortars Containing Spanish Ground Sewage Sludge Ash. <i>Studies in Environmental Science</i> , 1997 , 71, 349-354		8
33	Application of alkali-activated industrial waste 2019 , 357-424		8
32	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	3.5	7

31	Studies on crystalline rice husk ashes and the activation of their pozzolanic properties. <i>Waste Management Series</i> , 2000 , 1, 493-503		7
30	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	2.4	6
29	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	6
28	Mechanical Strength of Lime-Rice Husk Ash Mortars: A Preliminary Study. <i>Key Engineering Materials</i> , 2012 , 517, 495-499	0.4	6
27	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	1.8	6
26	Effect of carbonation on the linear and nonlinear dynamic properties of cement-based materials. <i>Optical Engineering</i> , 2015 , 55, 011004	1.1	5
25	New inorganic binders containing ashes from agricultural wastes 2017 , 127-164		5
24	Caracterizaci3n de escorias de cobre de fundiciones chilenas del Siglo XIX. <i>Revista De Metalurgia</i> , 2016 , 52, 083	0.4	5
23	Comparison of original and washed pure sugar cane bagasse ashes as supplementary cementing materials. <i>Construction and Building Materials</i> , 2021 , 272, 122001	6.7	5
22	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	3	4
21	The Compressive Strength and Microstructure of Alkali-Activated Binary Cements Developed by Combining Ceramic Sanitaryware with Fly Ash or Blast Furnace Slag. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 337	2.4	4
20	Lime/pozzolan/geopolymer systems: Performance in pastes and mortars. <i>Construction and Building Materials</i> , 2021 , 276, 122208	6.7	4
19	Almond-shell biomass ash (ABA): A greener alternative to the use of commercial alkaline reagents in alkali-activated cement. <i>Construction and Building Materials</i> , 2021 , 290, 123251	6.7	4
18	Evaluation of Rice Straw Ash as a Pozzolanic Addition in Cementitious Mixtures. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 773	2.6	4
17	Nonlinear Acoustic Spectroscopy and Frequency Sweep Ultrasonics: Case on Thermal Damage Assessment in Mortar. <i>Journal of Nondestructive Evaluation</i> , 2019 , 38, 1	2.1	3
16	Sustainable Soil-Compacted Blocks Containing Blast Furnace Slag (BFS) Activated with Olive Stone BIOMASS Ash (OBA). <i>Sustainability</i> , 2020 , 12, 9824	3.6	3
15	An Approach to a New Supplementary Cementing Material: Arundo donax Straw Ash. <i>Sustainability</i> , 2018 , 10, 4273	3.6	3
14	Improvement of Portland Cement/Fly Ash Mortars Strength Using Classified Fly Ashes. <i>Studies in Environmental Science</i> , 1994 , 60, 563-570		2

13	Formulation of Alkali-Activated Slag Binder Destined for Use in Developing Countries. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 9088	2.6	2
12	Preliminary studies on hydrated cement for its reuse in geopolymers. <i>DYNA (Colombia)</i> , 2016 , 83, 229-238.6		2
11	Sewage sludge ash 2019 , 121-152		2
10	Characterization of lagoon sediments and their pollutant charge. Proposals for reusing. <i>Waste Management Series</i> , 2000 , 1, 1014-1021		1
9	Effect of different high surface area silicas on the rheology of cement paste. <i>Materiales De Construccion</i> , 2020 , 70, 231	1.8	1
8	Efecto de un aditivo extraído de la planta Agave americana sobre las propiedades físicas y mecánicas de un yeso. <i>Materiales De Construccion</i> , 2013 , 63, 79-92	1.8	1
7	Stabilization of soil by means alternative alkali-activated cement prepared with spent FCC catalyst. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 190-196	2	1
6	Microscopic Chemical Characterization and Reactivity in Cementing Systems of Elephant Grass Leaf Ashes. <i>Microscopy and Microanalysis</i> , 2018 , 24, 593-603	0.5	1
5	Reusing Construction and Demolition Waste to Prepare Alkali-Activated Cement. <i>Materials</i> , 2022 , 15, 3437	3.5	1
4	Activadores alternativos para cementos de activación alcalina. <i>Revista ALCONPAT</i> , 2022 , 12, 16-31	1.7	0
3	Durability of Glass Fiber Reinforced Cement (GRC) Containing a High Proportion of Pozzolans. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3696	2.6	0
2	Air-Void System Characterization of Eco-Cellular Concretes. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04021088		3
1	The role of dissolved rice husk ash in the development of binary blast furnace slag-sewage sludge ash alkali-activated mortars. <i>Journal of Building Engineering</i> , 2022 , 104472	5.2	