

Jose Maria Monzo Balbuena

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111
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36
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57
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114
ext. papers

4,177
ext. citations

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avg, IF

5.18
L-index

#	Paper	IF	Citations
111	Properties and microstructure of alkali-activated red clay brick waste. <i>Construction and Building Materials</i> , 2013 , 43, 98-106	6.7	176
110	Sugar-cane bagasse ash (SCBA): studies on its properties for reusing in concrete production. <i>Journal of Chemical Technology and Biotechnology</i> , 2002 , 77, 321-325	3.5	113
109	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
108	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
107	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
106	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
105	Enhanced conductivity measurement techniques for evaluation of fly ash pozzolanic activity. <i>Cement and Concrete Research</i> , 2001 , 31, 41-49	10.3	90
104	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
103	Fluid catalytic cracking catalyst residue (FC3R). <i>Cement and Concrete Research</i> , 1999 , 29, 1773-1779	10.3	88
102	Alkaline Activation of Ceramic Waste Materials. <i>Waste and Biomass Valorization</i> , 2013 , 4, 729-736	3.2	87
101	Use of sewage sludge ash(SSA)-cement admixtures in mortars. <i>Cement and Concrete Research</i> , 1996 , 26, 1389-1398	10.3	87
100	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
99	Mechanical and physical properties of cement blended with sewage sludge ash. <i>Waste Management</i> , 2008 , 28, 2495-502	8.6	84
98	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
97	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
96	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
95	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

94	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
93	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
92	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
91	Thermogravimetric Methods for Determining Carbon Content in Fly Ashes. <i>Cement and Concrete Research</i> , 1998 , 28, 675-686	10.3	64
90	Mechanical treatment of fly ashes. <i>Cement and Concrete Research</i> , 2000 , 30, 543-551	10.3	60
89	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
88	Rice straw ash: A potential pozzolanic supplementary material for cementing systems. <i>Industrial Crops and Products</i> , 2017 , 103, 39-50	5.9	53
87	Physical and mechanical properties of foamed Portland cement composite containing crumb rubber from worn tires. <i>Materials & Design</i> , 2014 , 59, 550-557		53
86	The use of thermogravimetric analysis technique for the characterization of construction materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008 , 91, 503-509	4.1	53
85	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
84	Refluxed rice husk ash/NaOH suspension for preparing alkali activated binders. <i>Materials Letters</i> , 2014 , 115, 72-74	3.3	52
83	Geopolymers based on spent catalyst residue from a fluid catalytic cracking (FCC) process. <i>Fuel</i> , 2013 , 109, 493-502	7.1	52
82	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
81	Advantages in the use of fly ashes in cements containing pozzolanic combustion residues: silica fume, sewage sludge ash, spent fluidized bed catalyst and rice husk ash. <i>Journal of Chemical Technology and Biotechnology</i> , 2002 , 77, 331-335	3.5	50
80	New geopolymeric binder based on fluid catalytic cracking catalyst residue (FCC). <i>Materials Letters</i> , 2012 , 80, 50-52	3.3	49
79	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
78	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
77	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

76	Compressive strength and microstructure of alkali-activated mortars with high ceramic waste content. <i>Ceramics International</i> , 2017 , 43, 13622-13634	5.1	38
75	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
74	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
73	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
72	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
71	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
70	Non-classical nonlinear feature extraction from standard resonance vibration data for damage detection. <i>Journal of the Acoustical Society of America</i> , 2014 , 135, EL82-7	2.2	28
69	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
68	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
67	A new geopolymeric binder from hydrated-carbonated cement. <i>Materials Letters</i> , 2012 , 74, 223-225	3.3	27
66	A preliminary study of fly ash granulometric influence on mortar strength. <i>Cement and Concrete Research</i> , 1994 , 24, 791-796	10.3	27
65	Increase of the reactivity of densified silica fume by sonication treatment. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 1099-107	8.9	26
64	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
63	Immobilization of Zn(II) in Portland cement pastes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 112, 1377-1389	4.1	24
62	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
61	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
60	Structure of Portland Cement Pastes Blended with Sonicated Silica Fume. <i>Journal of Materials in Civil Engineering</i> , 2012 , 24, 1295-1304	3	23
59	Cement equivalence factor evaluations for fluid catalytic cracking catalyst residue. <i>Cement and Concrete Composites</i> , 2013 , 39, 12-17	8.6	22

58	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
57	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
56	New eco-cellular concretes: sustainable and energy-efficient materials. <i>Green Chemistry</i> , 2018 , 20, 4684-4694		20
55	Use of residual diatomaceous earth as a silica source in geopolymer production. <i>Materials Letters</i> , 2018 , 223, 10-13	3.3	19
54	Ceramic tiles waste as replacement material in Portland cement. <i>Advances in Cement Research</i> , 2016 , 28, 221-232	1.8	19
53	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
52	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
51	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
50	Effect of sonication on the reactivity of silica fume in Portland cement mortars. <i>Advances in Cement Research</i> , 2011 , 23, 23-31	1.8	18
49	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
48	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
47	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
46	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
45	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
44	Bagasse ash 2018 , 559-598		13
43	Granulometric activation of densified silica fume (CSF) by sonication. <i>Advances in Cement Research</i> , 2008 , 20, 129-135	1.8	13
42	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
41	Loss on ignition and carbon content in pulverized fuel ashes (PFA): two crucial parameters for quality control. <i>Journal of Chemical Technology and Biotechnology</i> , 2002 , 77, 251-255	3.5	13

40	Properties of Portland cement mortars incorporating high amounts of oil-fuel ashes. <i>Waste Management</i> , 1999 , 19, 1-7	8.6	13
39	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
38	Valorisation of sugarcane bagasse ash (SCBA) with high quartz content as pozzolanic material in Portland cement mixtures. <i>Materiales De Construccion</i> , 2018 , 68, 153	1.8	13
37	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
36	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
35	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
34	Assessment of pozzolanic/hydraulic reactivity of vitreous calcium aluminosilicate (VCAS). <i>Materials and Design</i> , 2016 , 96, 424-430	8.1	11
33	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
32	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
31	Novel geopolymeric material cured at room temperature. <i>Advances in Applied Ceramics</i> , 2013 , 112, 179-183	10	10
30	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
29	Study of corrosion on copper strips by petroleum naphtha in the ASTM D-130 test by means of electronic microscopy (SEM) and energy dispersive X-ray (EDX). <i>Fresenius Journal of Analytical Chemistry</i> , 1990 , 337, 382-388		8
28	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
27	Spectrophotometric determination of boron in water with prior distillation and hydrolysis of the methyl borate. <i>Analyst, The</i> , 1988 , 113, 1069-1072	5	7
26	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
25	Mechanical Strength of Lime-Rice Husk Ash Mortars: A Preliminary Study. <i>Key Engineering Materials</i> , 2012 , 517, 495-499	0.4	6
24	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
23	Effect of carbonation on the linear and nonlinear dynamic properties of cement-based materials. <i>Optical Engineering</i> , 2015 , 55, 011004	1.1	5

22	Evaluation of frost damage in cement-based materials by a nonlinear elastic wave technique 2014 ,		5
21	Degradation Process of Postconsumer Waste Bottle Fibers Used in Portland CementBased Composites. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04017183	3	5
20	New inorganic binders containing ashes from agricultural wastes 2017 , 127-164		5
19	Influence of elemental sulfur and mercaptans on corrosion of copper strips in the ASTM D-130 test by means of electronic microscopy (SEM) and energy dispersive X-ray (EDX). <i>FreseniusJournal of Analytical Chemistry</i> , 1991 , 341, 606-610		5
18	Caracterizaci3n de escorias de cobre de fundiciones chilenas del Siglo XIX. <i>Revista De Metalurgia</i> , 2016 , 52, 083	0.4	5
17	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
16	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
15	Lime/pozzolan/geopolymer systems: Performance in pastes and mortars. <i>Construction and Building Materials</i> , 2021 , 276, 122208	6.7	4
14	Evaluation of Rice Straw Ash as a Pozzolanic Addition in Cementitious Mixtures. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 773	2.6	4
13	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
12	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
11	Determination of elemental sulfur, mercaptan and disulfide in petroleum naphtha by differential-pulse polarography. <i>FreseniusJournal of Analytical Chemistry</i> , 1990 , 337, 372-376		3
10	An Approach to a New Supplementary Cementing Material: Arundo donax Straw Ash. <i>Sustainability</i> , 2018 , 10, 4273	3.6	3
9	Formulation of Alkali-Activated Slag Binder Destined for Use in Developing Countries. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 9088	2.6	2
8	Preliminary studies on hydrated cement for its reuse in geopolymers. <i>DYNA (Colombia)</i> , 2016 , 83, 229-238.6		2
7	Study of corrosion on copper strips by mixtures of mercaptans, sulphides and disulphides with elemental sulphur in the ASTM D-130 test by means of electron microscopy (SEM) and energy dispersive X-ray (EDX). <i>FreseniusJournal of Analytical Chemistry</i> , 1992 , 343, 593-596		1
6	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
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 activaci3n alcalina. *Revista ALCONPAT*, **2022**, 12, 16-31 1.7 0
- 3 Durability of Glass Fiber Reinforced Cement (GRC) Containing a High Proportion of Pozzolans. *Applied Sciences (Switzerland)*, **2022**, 12, 3696 2.6 0
- 2 The Assessment of Pollutant Charge of Dredged Sediments as a Tool to Minimize Adverse Environmental Effects. *Studies in Environmental Science*, **1994**, 60, 929-938
- 1 Air-Void System Characterization of Eco-Cellular Concretes. *Journal of Materials in Civil Engineering*, **2021**, 33, 04021088 3