Jose Maria Monzo Balbuena

List of Publications by Year in Descending Order

111 papers	3,629 citations	36 h-index	57 g-index
114 ext. papers	4,177 ext. citations	5.4 avg, IF	5.18 L-index

#	Paper	IF	Citations
111	Activadores alternativos para cementos de activaci□ alcalina. *Revista ALCONPAT*, **2022**, 12, 16-31	1.7	0
110	Durability of Glass Fiber Reinforced Cement (GRC) Containing a High Proportion of Pozzolans. *Applied Sciences (Switzerland)*, **2022**, 12, 3696	2.6	0
109	Reusing Construction and Demolition Waste to Prepare Alkali-Activated Cement. *Materials*, **2022**, 15, 3437	3.5	1
108	Lime/pozzolan/geopolymer systems: Performance in pastes and mortars. *Construction and Building Materials*, **2021**, 276, 122208	6.7	4
107	Air-Void System Characterization of Eco-Cellular Concretes. *Journal of Materials in Civil Engineering*, **2021**, 33, 04021088	3	
106	Evaluation of Rice Straw Ash as a Pozzolanic Addition in Cementitious Mixtures. *Applied Sciences (Switzerland)*, **2021**, 11, 773	2.6	4
105	Sustainable Soil-Compacted Blocks Containing Blast Furnace Slag (BFS) Activated with Olive Stone BIOMASS Ash (OBA). *Sustainability*, **2020**, 12, 9824	3.6	3
104	One-part eco-cellular concrete for the precast industry: Functional features and life cycle assessment. *Journal of Cleaner Production*, **2020**, 269, 122203	10.3	10
103	One-part blast furnace slag mortars activated with almond-shell biomass ash: A new 100% waste-based material. *Materials Letters*, **2020**, 272, 127882	3.3	9
102	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
101	Formulation of Alkali-Activated Slag Binder Destined for Use in Developing Countries. *Applied Sciences (Switzerland)*, **2020**, 10, 9088	2.6	2
100	Nonlinear Acoustic Spectroscopy and Frequency Sweep Ultrasonics: Case on Thermal Damage Assessment in Mortar. *Journal of Nondestructive Evaluation*, **2019**, 38, 1	2.1	3
99	Use of residual diatomaceous earth as a silica source in geopolymer production. *Materials Letters*, **2018**, 223, 10-13	3.3	19
98	Influence of calcium additions on the compressive strength and microstructure of alkali-activated ceramic sanitary-ware. *Journal of the American Ceramic Society*, **2018**, 101, 3094-3104	3.8	11
97	Mineralogical evolution of cement pastes at early ages based on thermogravimetric analysis (TG). *Journal of Thermal Analysis and Calorimetry*, **2018**, 132, 39-46	4.1	15
96	New use of sugar cane straw ash in alkali-activated materials: A silica source for the preparation of the alkaline activator. *Construction and Building Materials*, **2018**, 171, 611-621	6.7	31
95	Optimum Use of Sugar Cane Straw Ash in Alkali-Activated Binders Based on Blast Furnace Slag. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018084	3	4

94	Olive-stone biomass ash (OBA): An alternative alkaline source for the blast furnace slag activation. *Construction and Building Materials*, **2018**, 178, 327-338	6.7	27
93	Influence of Addition of Fluid Catalytic Cracking Residue (FCC) and the SiO2 Concentration in Alkali-Activated Ceramic Sanitary-Ware (CSW) Binders. *Minerals (Basel, Switzerland)*, **2018**, 8, 123	2.4	6
92	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	2.4	4
91	Bagasse ash **2018**, 559-598		13
90	Valorisation of sugarcane bagasse ash (SCBA) with high quartz content as pozzolanic material in Portland cement mixtures. *Materiales De Construccion*, **2018**, 68, 153	1.8	13
89	An Approach to a New Supplementary Cementing Material: Arundo donax Straw Ash. *Sustainability*, **2018**, 10, 4273	3.6	3
88	New eco-cellular concretes: sustainable and energy-efficient materials. *Green Chemistry*, **2018**, 20, 4684-4694		20
87	Resistance to acid attack of alkali-activated binders: Simple new techniques to measure susceptibility. *Construction and Building Materials*, **2017**, 150, 355-366	6.7	11
86	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	3.3	28
85	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	6.7	20
84	Rice straw ash: A potential pozzolanic supplementary material for cementing systems. *Industrial Crops and Products*, **2017**, 103, 39-50	5.9	53
83	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	10.3	23
82	Compressive strength and microstructure of alkali-activated mortars with high ceramic waste content. *Ceramics International*, **2017**, 43, 13622-13634	5.1	38
81	Degradation Process of Postconsumer Waste Bottle Fibers Used in Portland Cement-Based Composites. *Journal of Materials in Civil Engineering*, **2017**, 29, 04017183	3	5
80	New inorganic binders containing ashes from agricultural wastes **2017**, 127-164		5
79	Ceramic tiles waste as replacement material in Portland cement. *Advances in Cement Research*, **2016**, 28, 221-232	1.8	19
78	Increasing the sustainability of alkali-activated binders: The use of sugar cane straw ash (SCSA). *Construction and Building Materials*, **2016**, 124, 148-154	6.7	27
77	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	8.3	11

76	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	6.7	21
75	Evaluation of the pozzolanic activity of spent FCC catalyst/fly ash mixtures in Portland cement pastes. *Thermochimica Acta*, **2016**, 632, 29-36	2.9	30
74	Study of the binary system fly ash/sugarcane bagasse ash (FA/SCBA) in SiO2/K2O alkali-activated binders. *Fuel*, **2016**, 174, 307-316	7.1	25
73	Assessment of pozzolanic/hydraulic reactivity of vitreous calcium aluminosilicate (VCAS). *Materials and Design*, **2016**, 96, 424-430	8.1	11
72	Use of ancient copper slags in Portland cement and alkali activated cement matrices. *Journal of Environmental Management*, **2016**, 167, 115-23	7.9	50
71	Influence of calcium aluminate cement (CAC) on alkaline activation of red clay brick waste (RCBW). *Cement and Concrete Composites*, **2016**, 65, 177-185	8.6	40
70	Caracterizaci□n de escorias de cobre de fundiciones chilenas del Siglo XIX. *Revista De Metalurgia*, **2016**, 52, 083	0.4	5
69	Preliminary studies on hydrated cement for its reuse in geopolymers. *DYNA (Colombia)*, **2016**, 83, 229-238	8.6	2
68	Portland cement, gypsum and fly ash binder systems characterization for lignocellulosic fiber-cement. *Construction and Building Materials*, **2016**, 124, 208-218	6.7	19
67	Assessment of sugar cane straw ash (SCSA) as pozzolanic material in blended Portland cement: Microstructural characterization of pastes and mechanical strength of mortars. *Construction and Building Materials*, **2015**, 94, 670-677	6.7	64
66	Effect of carbonation on the linear and nonlinear dynamic properties of cement-based materials. *Optical Engineering*, **2015**, 55, 011004	1.1	5
65	Mechanical and durability properties of alkali-activated mortar based on sugarcane bagasse ash and blast furnace slag. *Ceramics International*, **2015**, 41, 13012-13024	5.1	65
64	Carbon footprint of geopolymeric mortar: study of the contribution of the alkaline activating solution and assessment of an alternative route. *RSC Advances*, **2014**, 4, 23846-23852	3.7	85
63	Physical and mechanical properties of foamed Portland cement composite containing crumb rubber from worn tires. *Materials & Design*, **2014**, 59, 550-557		53
62	Influence of the activator concentration and calcium hydroxide addition on the properties of alkali-activated porcelain stoneware. *Construction and Building Materials*, **2014**, 63, 214-222	6.7	32
61	Refluxed rice husk ash/NaOH suspension for preparing alkali activated binders. *Materials Letters*, **2014**, 115, 72-74	3.3	52
60	Evaluation of frost damage in cement-based materials by a nonlinear elastic wave technique **2014**,		5
59	Assessment of the Pozzolanic Activity of a Spent Catalyst by Conductivity Measurement of Aqueous Suspensions with Calcium Hydroxide. *Materials*, **2014**, 7, 2561-2576	3.5	10

58	Assessment of Pozzolanic Activity Using Methods Based on the Measurement of Electrical Conductivity of Suspensions of Portland Cement and Pozzolan. *Materials*, **2014**, 7, 7533-7547	3.5	7
57	Non-classical nonlinear feature extraction from standard resonance vibration data for damage detection. *Journal of the Acoustical Society of America*, **2014**, 135, EL82-7	2.2	28
56	New method to assess the pozzolanic reactivity of mineral admixtures by means of pH and electrical conductivity measurements in lime:pozzolan suspensions. *Materiales De Construccion*, **2014**, 64, e032	1.8	14
55	Immobilization of Zn(II) in Portland cement pastes. *Journal of Thermal Analysis and Calorimetry*, **2013**, 112, 1377-1389	4.1	24
54	Effect of pozzolans on the hydration process of Portland cement cured at low temperatures. *Cement and Concrete Composites*, **2013**, 42, 41-48	8.6	43
53	Alkaline Activation of Ceramic Waste Materials. *Waste and Biomass Valorization*, **2013**, 4, 729-736	3.2	87
52	Effect of curing time on microstructure and mechanical strength development of alkali activated binders based on vitreous calcium aluminosilicate (VCAS). *Bulletin of Materials Science*, **2013**, 36, 245-249	1.7	17
51	Alkali activated materials based on fluid catalytic cracking catalyst residue (FCC): Influence of SiO2/Na2O and H2O/FCC ratio on mechanical strength and microstructure. *Fuel*, **2013**, 108, 833-839	7.1	38
50	Effect of nanosilica-based activators on the performance of an alkali-activated fly ash binder. *Cement and Concrete Composites*, **2013**, 35, 1-11	8.6	106
49	Mechanical and physical performance of low alkalinity cementitious composites reinforced with recycled cellulosic fibres pulp from cement kraft bags. *Industrial Crops and Products*, **2013**, 49, 422-427	5.9	32
48	Geopolymers based on spent catalyst residue from a fluid catalytic cracking (FCC) process. *Fuel*, **2013**, 109, 493-502	7.1	52
47	Properties and microstructure of alkali-activated red clay brick waste. *Construction and Building Materials*, **2013**, 43, 98-106	6.7	176
46	Cement equivalence factor evaluations for fluid catalytic cracking catalyst residue. *Cement and Concrete Composites*, **2013**, 39, 12-17	8.6	22
45	Use of Slag/Sugar Cane Bagasse Ash (SCBA) Blends in the Production of Alkali-Activated Materials. *Materials*, **2013**, 6, 3108-3127	3.5	73
44	Pozzolanic reaction rate of fluid catalytic cracking catalyst residue (FC3R) in cement pastes. *Advances in Cement Research*, **2013**, 25, 112-118	1.8	14
43	Novel geopolymeric material cured at room temperature. *Advances in Applied Ceramics*, **2013**, 112, 179-183	1.3	10
42	A new geopolymeric binder from hydrated-carbonated cement. *Materials Letters*, **2012**, 74, 223-225	3.3	27
41	New geopolymeric binder based on fluid catalytic cracking catalyst residue (FCC). *Materials Letters*, **2012**, 80, 50-52	3.3	49

40	Increase of the reactivity of densified silica fume by sonication treatment. *Ultrasonics Sonochemistry*, **2012**, 19, 1099-107	8.9	26
39	Structure of Portland Cement Pastes Blended with Sonicated Silica Fume. *Journal of Materials in Civil Engineering*, **2012**, 24, 1295-1304	3	23
38	Mechanical Strength of Lime-Rice Husk Ash Mortars: A Preliminary Study. *Key Engineering Materials*, **2012**, 517, 495-499	0.4	6
37	Effect of sonication on the reactivity of silica fume in Portland cement mortars. *Advances in Cement Research*, **2011**, 23, 23-31	1.8	18
36	Accelerated carbonation of cement pastes partially substituted with fluid catalytic cracking catalyst residue (FC3R). *Cement and Concrete Composites*, **2009**, 31, 134-138	8.6	19
35	The carbonation of OPC mortars partially substituted with spent fluid catalytic catalyst (FC3R) and its influence on their mechanical properties. *Construction and Building Materials*, **2009**, 23, 1323-1328	6.7	19
34	Estudio del comportamiento de diversos residuos de catalizadores de craqueo catalítico (FCC) en cemento Portland. *Materiales De Construccion*, **2009**, 59, 37-52	1.8	13
33	Granulometric activation of densified silica fume (CSF) by sonication. *Advances in Cement Research*, **2008**, 20, 129-135	1.8	13
32	The use of thermogravimetric analysis technique for the characterization of construction materials. *Journal of Thermal Analysis and Calorimetry*, **2008**, 91, 503-509	4.1	53
31	Mechanical and physical properties of cement blended with sewage sludge ash. *Waste Management* , **2008**, 28, 2495-502	8.6	84
30	Reusing fly ash in glass fibre reinforced cement: a new generation of high-quality GRC composites. *Waste Management*, **2007**, 27, 1416-21	8.6	16
29	Compatibility of fluid catalytic cracking catalyst residue (FC3R) with various types of cement. *Advances in Cement Research*, **2007**, 19, 117-124	1.8	13
28	Chemical activation of pozzolanic reaction of fluid catalytic cracking catalyst residue (FC3R) in lime pastes: thermal analysis. *Advances in Cement Research*, **2004**, 16, 123-130	1.8	6
27	Evaluation of the pozzolanic activity of fluid catalytic cracking catalyst residue (FC3R). Thermogravimetric analysis studies on FC3R-Portland cement pastes. *Cement and Concrete Research*, **2003**, 33, 603-609	10.3	113
26	Determination of the pozzolanic activity of fluid catalytic cracking residue. Thermogravimetric analysis studies on FC3R-lime pastes. *Cement and Concrete Research*, **2003**, 33, 1085-1091	10.3	74
25	Reuse of sewage sludge ashes (SSA) in cement mixtures: the effect of SSA on the workability of cement mortars. *Waste Management*, **2003**, 23, 373-81	8.6	100
24	Sugar-cane bagasse ash (SCBA): studies on its properties for reusing in concrete production. *Journal of Chemical Technology and Biotechnology*, **2002**, 77, 321-325	3.5	113
23	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. *Journal of Chemical Technology and Biotechnology*, **2002**, 77, 331-335	3.5	50

22	Loss on ignition and carbon content in pulverized fuel ashes (PFA): two crucial parameters for quality control. *Journal of Chemical Technology and Biotechnology*, **2002**, 77, 251-255	3.5	13
21	Physical, chemical and mechanical properties of fluid catalytic cracking catalyst residue (FC3R) blended cements. *Cement and Concrete Research*, **2001**, 31, 57-61	10.3	56
20	Enhanced conductivity measurement techniques for evaluation of fly ash pozzolanic activity. *Cement and Concrete Research*, **2001**, 31, 41-49	10.3	90
19	Determination of amorphous silica in rice husk ash by a rapid analytical method. *Cement and Concrete Research*, **2001**, 31, 227-231	10.3	83
18	Mechanical treatment of fly ashes. *Cement and Concrete Research*, **2000**, 30, 543-551	10.3	60
17	Properties of Portland cement mortars incorporating high amounts of oil-fuel ashes. *Waste Management*, **1999**, 19, 1-7	8.6	13
16	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	10.3	80
15	Fluid catalytic cracking catalyst residue (FC3R). *Cement and Concrete Research*, **1999**, 29, 1773-1779	10.3	88
14	Thermogravimetric Methods for Determining Carbon Content in Fly Ashes. *Cement and Concrete Research*, **1998**, 28, 675-686	10.3	64
13	Mechanical treatments of fly ashes. Part III: Studies on strength development of ground fly ashes (GFA) Cement mortars. *Cement and Concrete Research*, **1997**, 27, 1365-1377	10.3	77
12	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	10.3	90
11	Use of sewage sludge ash(SSA)-cement admixtures in mortars. *Cement and Concrete Research*, **1996** , 26, 1389-1398	10.3	87
10	Comparisons among magnetic and non-magnetic fly ash fractions: Strength development of cement-fly ash mortars. *Waste Management*, **1996**, 16, 119-124	8.6	24
9	Mechanical treatment of fly ashes. Part I: Physico-chemical characterization of ground fly ashes. *Cement and Concrete Research*, **1995**, 25, 1469-1479	10.3	104
8	Early-strength development of portland cement mortars containing air classified fly ashes. *Cement and Concrete Research*, **1995**, 25, 449-456	10.3	53
7	A preliminary study of fly ash granulometric influence on mortar strength. *Cement and Concrete Research*, **1994**, 24, 791-796	10.3	27
6	The Assessment of Pollutant Charge of Dredged Sediments as a Tool to Minimize Adverse Environmental Effects. *Studies in Environmental Science*, **1994**, 60, 929-938		
5	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). *Fresenius Journal of Analytical Chemistry*, **1992**, 343, 593-596		1

4	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). *Fresenius Journal of Analytical Chemistry*, **1991**, 341, 606-610		5
3	Determination of elemental sulfur, mercaptan and disulfide in petroleum naphtha by differential-pulse polarography. *Fresenius Journal of Analytical Chemistry*, **1990**, 337, 372-376		3
2	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). *Fresenius Journal of Analytical Chemistry*, **1990**, 337, 382-388		8
1	Spectrophotometric determination of boron in water with prior distillation and hydrolysis of the methyl borate. *Analyst, The*, **1988**, 113, 1069-1072	5	7