

Mara Teresa Blanco-Varela

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

4,362
citations

29
h-index

65
g-index

97
ext. papers

4,972
ext. citations

6.6
avg, IF

5.34
L-index

#	Paper	IF	Citations
96	New approach to nanolime synthesis at ambient temperature. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	3
95	Radiological behaviour of pigments and water repellents in cement-based mortars. <i>Construction and Building Materials</i> , 2019 , 225, 879-885	6.7	3
94	Use of nanosilica- or nanolime-added TEOS to consolidate cementitious materials in heritage structures: Physical and mechanical properties of mortars. <i>Cement and Concrete Composites</i> , 2019 , 95, 271-276	8.6	16
93	Sacrificial mortars for surface desalination. <i>Construction and Building Materials</i> , 2018 , 173, 452-460	6.7	8
92	Ternesite as a component of sulfobelitic cements. <i>MATEC Web of Conferences</i> , 2018 , 149, 01011	0.3	
91	Moroccan oil shale and coal waste as alternative raw materials in Portland cement clinker manufacture. Clinkerisation reactions and clinker characterisation. <i>Materiales De Construccion</i> , 2018 , 68, 166	1.8	
90	Rheology of Cementitious Materials: Alkali-Activated Materials or Geopolymers. <i>MATEC Web of Conferences</i> , 2018 , 149, 01002	0.3	1
89	Can calcium aluminates activate ternesite hydration?. <i>Cement and Concrete Research</i> , 2018 , 103, 204-215	10.3	25
88	Use of Genie 2000 and Excel VBA to correct for Ray interference in the determination of NORM building material activity concentrations. <i>Applied Radiation and Isotopes</i> , 2018 , 142, 1-7	1.7	11
87	Characterization and hydration of cements and pastes obtained from raw mix containing Moroccan oil shale and coal waste as a raw material. <i>Construction and Building Materials</i> , 2018 , 189, 539-549	6.7	7
86	Alkali-activated mortars: Workability and rheological behaviour. <i>Construction and Building Materials</i> , 2017 , 145, 576-587	6.7	50
85	Activated carbon as an alternative fuel. Effect of carbon ash on cement clinkerization. <i>Journal of Cleaner Production</i> , 2016 , 119, 50-58	10.3	11
84	Quantitative analysis of pure triclinic tricalcium silicate and CSH gels by ²⁹ Si NMR longitudinal relaxation time. <i>Construction and Building Materials</i> , 2016 , 107, 52-57	6.7	7
83	Freeze-Thaw and UV Resistance in Building Stone Coated with Two Permanent Anti-graffiti Treatments 2015 , 531-534		3
82	Thermal analysis of blended cements. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 121, 1197-1204	4.1	12
81	Effect of BaCO ₃ on C3A hydration. <i>Cement and Concrete Research</i> , 2015 , 73, 70-78	10.3	11
80	Interaction of TEOS with cementitious materials: Chemical and physical effects. <i>Cement and Concrete Composites</i> , 2015 , 55, 145-152	8.6	46

79	Use of barium carbonate to inhibit sulfate attack in cements. <i>Cement and Concrete Research</i> , 2015 , 69, 96-104	10.3	18
78	Calorimetric study of the early stages of the nanosilica - tricalcium silicate hydration. Effect of temperature. <i>Materiales De Construccion</i> , 2015 , 65, e070	1.8	5
77	FTIR study of the effect of temperature and nanosilica on the nano structure of C ₃ S gel formed by hydrating tricalcium silicate. <i>Construction and Building Materials</i> , 2014 , 52, 314-323	6.7	88
76	Effect of temperature on C ₃ S gel nanostructure in white cement. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014 , 47, 1867-1878	3.4	9
75	Conduction calorimetric studies of ternary binders based on Portland cement, calcium aluminate cement and calcium sulphate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 799-807	4.1	27
74	Assessment of the physico-mechanical behaviour of gypsum-lime repair mortars as a function of curing time. <i>Environmental Earth Sciences</i> , 2013 , 70, 1605-1618	2.9	9
73	The effect of using thermally dried sewage sludge as an alternative fuel on Portland cement clinker production. <i>Journal of Cleaner Production</i> , 2013 , 52, 94-102	10.3	82
72	Mineralogical Composition of Clinker as an Indicator of Sulfate Resistance: A Rietveld XRD/Takashima Approach. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3637-3642	3.8	1
71	Ettringite decomposition in the presence of barium carbonate. <i>Cement and Concrete Research</i> , 2013 , 52, 140-148	10.3	54
70	Combined Effect of Amorphous Nanosilica and Temperature on White Portland Cement Hydration. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 11866-11874	3.9	10
69	Effect of Temperature on C ₃ S and C ₃ S + Nanosilica Hydration and C ₃ S Structure. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 957-965	3.8	30
68	Role of organic admixtures on thaumasite precipitation. <i>Cement and Concrete Research</i> , 2012 , 42, 994-1000	10.3	9
67	Compatibility between gypsum and polyamide powder waste to produce lightweight plaster with enhanced thermal properties. <i>Construction and Building Materials</i> , 2012 , 34, 179-185	6.7	47
66	Evaluation of a lime-mediated sewage sludge stabilisation process. Product characterisation and technological validation for its use in the cement industry. <i>Waste Management</i> , 2012 , 32, 550-60	8.6	29
65	Caracterizaci3n de morteros mudjares de la iglesia de San Gil Abad (Zaragoza, Espa2a): Investigaci3n de la tecnolog3a de fabricaci3n de morteros hist3ricos de yeso. <i>Materiales De Construccion</i> , 2012 , 62, 515-529	1.8	8
64	Surface dispersive energy determined with IGC-ID in anti-graffiti-coated building materials. <i>Progress in Organic Coatings</i> , 2011 , 71, 207-212	4.8	13
63	Evaluation of spray-dried sludge from drinking water treatment plants as a prime material for clinker manufacture. <i>Cement and Concrete Composites</i> , 2011 , 33, 267-275	8.6	38
62	Thaumasite formation in sugary solutions: Effect of temperature and sucrose concentration. <i>Construction and Building Materials</i> , 2011 , 25, 21-29	6.7	9

61	Effectiveness of antigraffiti treatments in connection with penetration depth determined by different techniques. <i>Journal of Cultural Heritage</i> , 2010 , 11, 297-303	2.9	25
60	Protective performances of two anti-graffiti treatments towards sulfite and sulfate formation in SO ₂ polluted model environment. <i>Applied Surface Science</i> , 2010 , 257, 852-856	6.7	13
59	Re-use of drinking water treatment plant (DWTP) sludge: Characterization and technological behaviour of cement mortars with atomized sludge additions. <i>Cement and Concrete Research</i> , 2010 , 40, 778-786	10.3	103
58	Interaction between two anti-graffiti treatments and cement mortar (paste). <i>Cement and Concrete Research</i> , 2010 , 40, 723-730	10.3	18
57	Surface water repellent-mediated change in lime mortar colour and gloss. <i>Construction and Building Materials</i> , 2010 , 24, 2188-2193	6.7	14
56	Effect of concentration, particle size and the presence of protective coatings in DRIFT spectra of building materials. <i>Vibrational Spectroscopy</i> , 2009 , 50, 312-318	2.1	5
55	Fases termodinámicamente estables en el sistema cerrado CaO-SiO ₂ -Al ₂ O ₃ -CaSO ₄ -H ₂ O a 25 °C. Aplicación a sistemas cementantes. <i>Materiales De Construccion</i> , 2009 , 59, 31-39	1.8	5
54	FTIR study of the sol-gel synthesis of cementitious gels: C ₃ S and N ₃ S. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 45, 63-72	2.3	250
53	Alkali activation of metakaolins: parameters affecting mechanical, structural and microstructural properties. <i>Journal of Materials Science</i> , 2007 , 42, 2934-2943	4.3	114
52	Pozzolanic reactivity of zeolitic rocks from two different Cuban deposits: Characterization of reaction products. <i>Applied Clay Science</i> , 2006 , 32, 40-52	5.2	41
51	Characterization and pozzolanicity of zeolitic rocks from two Cuban deposits. <i>Applied Clay Science</i> , 2006 , 33, 149-159	5.2	34
50	Evolution of ordinary Portland cement hydration with admixtures by spectroscopic techniques. <i>Advances in Cement Research</i> , 2006 , 18, 111-117	1.8	3
49	Effect of cement C ₃ A content, temperature and storage medium on thaumasite formation in carbonated mortars. <i>Cement and Concrete Research</i> , 2006 , 36, 707-715	10.3	37
48	Modelling of slaked lime-metakaolin mortar engineering characteristics in terms of process variables. <i>Cement and Concrete Composites</i> , 2006 , 28, 458-467	8.6	40
47	Synthesis and crystal structure solution of potassium dawsonite: An intermediate compound in the alkaline hydrolysis of calcium aluminate cements. <i>Cement and Concrete Research</i> , 2005 , 35, 641-646	10.3	22
46	Role of alkalis of aggregate origin in the deterioration of CAC concrete. <i>Cement and Concrete Research</i> , 2005 , 35, 1698-1704	10.3	6
45	Modificaciones inducidas por la adición de puzolanas naturales zeolíticas en las pastas de cemento. <i>Materiales De Construccion</i> , 2005 , 55, 27-42	1.8	3
44	Pore solution in alkali-activated slag cement pastes. Relation to the composition and structure of calcium silicate hydrate. <i>Cement and Concrete Research</i> , 2004 , 34, 139-148	10.3	217

43	Micro-Raman spectroscopy applied to depth profiles of carbonates formed in lime mortar. <i>Cement and Concrete Research</i> , 2003 , 33, 2063-2068	10.3	119
42	Evolution of ettringite in presence of carbonate, and silicate ions. <i>Cement and Concrete Composites</i> , 2003 , 25, 861-865	8.6	40
41	Thaumasite formation due to atmospheric SO ₂ hydraulic mortar interaction. <i>Cement and Concrete Composites</i> , 2003 , 25, 983-990	8.6	7
40	Formation of thaumasite in carbonated mortars. <i>Cement and Concrete Composites</i> , 2003 , 25, 991-996	8.6	26
39	Quantitative analysis of mineralized white Portland clinkers: The structure of Fluorellestadite. <i>Powder Diffraction</i> , 2002 , 17, 281-286	1.8	25
38	Archaeal communities in two disparate deteriorated ancient wall paintings: detection, identification and temporal monitoring by denaturing gradient gel electrophoresis. <i>FEMS Microbiology Ecology</i> , 2001 , 37, 45-54	4.3	48
37	Archaeal communities in two disparate deteriorated ancient wall paintings: detection, identification and temporal monitoring by denaturing gradient gel electrophoresis. <i>FEMS Microbiology Ecology</i> , 2001 , 37, 45-54	4.3	5
36	Atmospheric deterioration of ancient and modern hydraulic mortars. <i>Atmospheric Environment</i> , 2001 , 35, 539-548	5.3	104
35	Procedure of synthesis of thaumasite. <i>Cement and Concrete Research</i> , 2001 , 31, 1163-1168	10.3	40
34	Hydration of high alumina cement in the presence of alkalis. <i>Advances in Cement Research</i> , 2000 , 12, 143-152	10.3	6
33	Influence of the starting kaolin on alkali-activated materials based on metakaolin. Study of the reaction parameters by isothermal conduction calorimetry. <i>Journal of Materials Science</i> , 2000 , 35, 6309-6315	4.3	115
32	Alkali-activated fly ashes. <i>Cement and Concrete Research</i> , 1999 , 29, 1323-1329	10.3	1373
31	Chemical stability of cementitious materials based on metakaolin. <i>Cement and Concrete Research</i> , 1999 , 29, 997-1004	10.3	369
30	Behaviour of cement mortars containing an industrial waste from aluminium refining: Stability in Ca(OH) ₂ solutions. <i>Cement and Concrete Research</i> , 1999 , 29, 1673-1680	10.3	21
29	Effect of Dry Deposition of Pollutants on the Degradation of Lime Mortars with Sepiolite. <i>Cement and Concrete Research</i> , 1998 , 28, 125-133	10.3	15
28	Behaviour of Repair Lime Mortars by Wet Deposition Process. <i>Cement and Concrete Research</i> , 1998 , 28, 221-229	10.3	16
27	Alkaline Activation of Metakaolin An Isothermal Conduction Calorimetry Study. <i>Magyar Árvad Közlönyek</i> , 1998 , 52, 957-965	0	61
26	Solid state compatibilities in CaO-Al ₂ O ₃ -Al ₂ O ₃ -SO ₄ -CaF ₂ system. <i>Journal of Materials Science</i> , 1998 , 33, 2961-2964	4.3	1

25	CaF ₂ and CaSO ₄ in white cement clinker production. <i>Advances in Cement Research</i> , 1997 , 9, 105-113	1.8	15
24	Studies on degradation of lime mortars in atmospheric simulation chambers. <i>Cement and Concrete Research</i> , 1997 , 27, 777-784	10.3	31
23	Stability of sepiolite in neutral and alkaline media at room temperature. <i>Clay Minerals</i> , 1996 , 31, 225-232	1.3	14
22	Influence of sand nature on burnability of white cement RAW mixes made using CaF ₂ and CaSO ₄ fluxing/mineralizer pair. <i>Cement and Concrete Research</i> , 1996 , 26, 1361-1367	10.3	7
21	Modelling of the burnability of white cement raw mixes made with CaF ₂ and CaSO ₄ . <i>Cement and Concrete Research</i> , 1996 , 26, 457-464	10.3	11
20	Influence of KOH solution on the hydration and carbonation of high alumina cement mortars. <i>Journal of Materials Science</i> , 1996 , 31, 2819-2827	4.3	7
19	Reply to the discussion by J. Bensted of the Paper Studies about a sulfate resistant cement: Influence of admixtures. <i>Cement and Concrete Research</i> , 1995 , 25, 1131-1132	10.3	
18	Carbonation process and properties of a new lime mortar with added sepiolite. <i>Cement and Concrete Research</i> , 1995 , 25, 39-50	10.3	31
17	Kinetics of the thermal decomposition of C ₄ A ₃ S in air. <i>Cement and Concrete Research</i> , 1995 , 25, 572-580	10.3	32
16	Solid state phases relationship in the CaO-SiO ₂ -Al ₂ O ₃ -CaF ₂ -CaSO ₄ system. <i>Cement and Concrete Research</i> , 1995 , 25, 870-882	10.3	14
15	Morteros de reparaci3n basados en cal. Ensayos de envejecimiento acelerado. <i>Materiales De Construccion</i> , 1995 , 45, 35-45	1.8	2
14	Influencia de la incorporaci3n conjunta del CaF ₂ y del CaSO ₄ en el proceso de clinkerizaci3n. Obtenci3n de nuevos cementos. <i>Materiales De Construccion</i> , 1995 , 45, 21-39	1.8	6
13	Studies about a sulphate resistant cement. Influence of admixtures. <i>Cement and Concrete Research</i> , 1994 , 24, 1177-1184	10.3	6
12	Acrylic fibres as reinforcement for cement pastes. <i>Cement and Concrete Composites</i> , 1994 , 16, 31-37	8.6	10
11	Decay of Roman and repair mortars in mosaics from Italica, Spain. <i>Science of the Total Environment</i> , 1994 , 153, 123-131	10.2	10
10	Hydration of 4CaO·Al ₂ O ₃ ·Mn ₂ O ₃ in the absence and the presence of gypsum. A comparative study with the hydration of 4CaO·Al ₂ O ₃ ·Fe ₂ O ₃ . <i>Cement and Concrete Research</i> , 1993 , 23, 20-32	10.3	4
9	Phase relations in the system Ca ₂ SiO ₄ -CaO-CaSO ₄ -CaF ₂ relevant to cement clinkering. <i>Advances in Cement Research</i> , 1992 , 4, 81-86	1.8	4
8	The behaviour of a low energy cement in Na ₂ SO ₄ and sea water media. <i>Cement and Concrete Research</i> , 1992 , 22, 793-803	10.3	6

7	Cements reinforced by acrylic fibers. Infrared studies. I. Hydration and hydrolysis processes in the fibers. <i>Cement and Concrete Research</i> , 1990 , 20, 702-710	10.3	5
6	Characterization of Ca ₂ AlMnO ₅ . A comparative study between Ca ₂ AlMnO ₅ and Ca ₂ AlFeO ₅ . <i>Cement and Concrete Research</i> , 1990 , 20, 429-438	10.3	8
5	Modification on the tricalcium aluminate phase in cements by manganese substitution. <i>Cement and Concrete Research</i> , 1988 , 18, 837-842	10.3	2
4	Influence of the kiln atmosphere on manganese solid solution in Ca ₃ SiO ₅ and CA ₂ SiO ₄ . <i>Cement and Concrete Research</i> , 1988 , 18, 783-788	10.3	7
3	A study of a new liquid phase to obtain low-energy cements. <i>Cement and Concrete Research</i> , 1986 , 16, 97-104	10.3	19
2	Effect of fluorspar on the formation of clinker phases. <i>Cement and Concrete Research</i> , 1984 , 14, 397-406	10.3	13
1	SEM Study of the Corrosion Products of Galvanized Reinforcements Immersed in Solutions in the pH Range 12' 6 to 13' 6. <i>Corrosion Engineering Science and Technology</i> , 1984 , 19, 41-48		56