

# Mara Teresa Blanco-Varela

## List of Publications by Citations

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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	Alkali-activated fly ashes. <i>Cement and Concrete Research</i> , <b>1999</b> , 29, 1323-1329	10.3	1373
95	Chemical stability of cementitious materials based on metakaolin. <i>Cement and Concrete Research</i> , <b>1999</b> , 29, 997-1004	10.3	369
94	FTIR study of the sol-gel synthesis of cementitious gels: CSH and NASH. <i>Journal of Sol-Gel Science and Technology</i> , <b>2008</b> , 45, 63-72	2.3	250
93	Pore solution in alkali-activated slag cement pastes. Relation to the composition and structure of calcium silicate hydrate. <i>Cement and Concrete Research</i> , <b>2004</b> , 34, 139-148	10.3	217
92	Micro-Raman spectroscopy applied to depth profiles of carbonates formed in lime mortar. <i>Cement and Concrete Research</i> , <b>2003</b> , 33, 2063-2068	10.3	119
91	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> , <b>2000</b> , 35, 6309-6315	4.3	115
90	Alkali activation of metakaolins: parameters affecting mechanical, structural and microstructural properties. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 2934-2943	4.3	114
89	Atmospheric deterioration of ancient and modern hydraulic mortars. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 539-548	5.3	104
88	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> , <b>2010</b> , 40, 778-786	10.3	103
87	FTIR study of the effect of temperature and nanosilica on the nano structure of CSH gel formed by hydrating tricalcium silicate. <i>Construction and Building Materials</i> , <b>2014</b> , 52, 314-323	6.7	88
86	The effect of using thermally dried sewage sludge as an alternative fuel on Portland cement clinker production. <i>Journal of Cleaner Production</i> , <b>2013</b> , 52, 94-102	10.3	82
85	Alkaline Activation of Metakaolin An Isothermal Conduction Calorimetry Study. <i>Magyar Ártud Kémia</i> , <b>1998</b> , 52, 957-965	0	61
84	SEM Study of the Corrosion Products of Galvanized Reinforcements Immersed in Solutions in the pH Range 12 to 13. <i>Corrosion Engineering Science and Technology</i> , <b>1984</b> , 19, 41-48		56
83	Ettringite decomposition in the presence of barium carbonate. <i>Cement and Concrete Research</i> , <b>2013</b> , 52, 140-148	10.3	54
82	Alkali-activated mortars: Workability and rheological behaviour. <i>Construction and Building Materials</i> , <b>2017</b> , 145, 576-587	6.7	50
81	Archaeal communities in two disparate deteriorated ancient wall paintings: detection, identification and temporal monitoring by denaturing gradient gel electrophoresis. <i>FEMS Microbiology Ecology</i> , <b>2001</b> , 37, 45-54	4.3	48
80	Compatibility between gypsum and polyamide powder waste to produce lightweight plaster with enhanced thermal properties. <i>Construction and Building Materials</i> , <b>2012</b> , 34, 179-185	6.7	47

79	Interaction of TEOS with cementitious materials: Chemical and physical effects. <i>Cement and Concrete Composites</i> , <b>2015</b> , 55, 145-152	8.6	46
78	Pozzolanic reactivity of zeolitic rocks from two different Cuban deposits: Characterization of reaction products. <i>Applied Clay Science</i> , <b>2006</b> , 32, 40-52	5.2	41
77	Modelling of slaked lime-tetakaolin mortar engineering characteristics in terms of process variables. <i>Cement and Concrete Composites</i> , <b>2006</b> , 28, 458-467	8.6	40
76	Evolution of ettringite in presence of carbonate, and silicate ions. <i>Cement and Concrete Composites</i> , <b>2003</b> , 25, 861-865	8.6	40
75	Procedure of synthesis of thaumasite. <i>Cement and Concrete Research</i> , <b>2001</b> , 31, 1163-1168	10.3	40
74	Evaluation of spray-dried sludge from drinking water treatment plants as a prime material for clinker manufacture. <i>Cement and Concrete Composites</i> , <b>2011</b> , 33, 267-275	8.6	38
73	Effect of cement C3A content, temperature and storage medium on thaumasite formation in carbonated mortars. <i>Cement and Concrete Research</i> , <b>2006</b> , 36, 707-715	10.3	37
72	Characterization and pozzolanicity of zeolitic rocks from two Cuban deposits. <i>Applied Clay Science</i> , <b>2006</b> , 33, 149-159	5.2	34
71	Kinetics of the thermal decomposition of C4A3S in air. <i>Cement and Concrete Research</i> , <b>1995</b> , 25, 572-580	10.3	32
70	Studies on degradation of lime mortars in atmospheric simulation chambers. <i>Cement and Concrete Research</i> , <b>1997</b> , 27, 777-784	10.3	31
69	Carbonation process and properties of a new lime mortar with added sepiolite. <i>Cement and Concrete Research</i> , <b>1995</b> , 25, 39-50	10.3	31
68	Effect of Temperature on C3S and C3S + Nanosilica Hydration and CSH Structure. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 957-965	3.8	30
67	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> , <b>2012</b> , 32, 550-60	8.6	29
66	Conduction calorimetric studies of ternary binders based on Portland cement, calcium aluminate cement and calcium sulphate. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 114, 799-807	4.1	27
65	Formation of thaumasite in carbonated mortars. <i>Cement and Concrete Composites</i> , <b>2003</b> , 25, 991-996	8.6	26
64	Effectiveness of antigraffiti treatments in connection with penetration depth determined by different techniques. <i>Journal of Cultural Heritage</i> , <b>2010</b> , 11, 297-303	2.9	25
63	Quantitative analysis of mineralized white Portland clinkers: The structure of Fluorellestadite. <i>Powder Diffraction</i> , <b>2002</b> , 17, 281-286	1.8	25
62	Can calcium aluminates activate ternesite hydration?. <i>Cement and Concrete Research</i> , <b>2018</b> , 103, 204-215	10.3	25

61	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> , <b>2005</b> , 35, 641-646	10.3	22
60	Behaviour of cement mortars containing an industrial waste from aluminium refining: Stability in Ca(OH) <sub>2</sub> solutions. <i>Cement and Concrete Research</i> , <b>1999</b> , 29, 1673-1680	10.3	21
59	A study of a new liquid phase to obtain low-energy cements. <i>Cement and Concrete Research</i> , <b>1986</b> , 16, 97-104	10.3	19
58	Use of barium carbonate to inhibit sulfate attack in cements. <i>Cement and Concrete Research</i> , <b>2015</b> , 69, 96-104	10.3	18
57	Interaction between two anti-graffiti treatments and cement mortar (paste). <i>Cement and Concrete Research</i> , <b>2010</b> , 40, 723-730	10.3	18
56	Behaviour of Repair Lime Mortars by Wet Deposition Process. <i>Cement and Concrete Research</i> , <b>1998</b> , 28, 221-229	10.3	16
55	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> , <b>2019</b> , 95, 271-276	8.6	16
54	CaF <sub>2</sub> and CaSO <sub>4</sub> in white cement clinker production. <i>Advances in Cement Research</i> , <b>1997</b> , 9, 105-113	1.8	15
53	Effect of Dry Deposition of Pollutants on the Degradation of Lime Mortars with Sepiolite. <i>Cement and Concrete Research</i> , <b>1998</b> , 28, 125-133	10.3	15
52	Surface water repellent-mediated change in lime mortar colour and gloss. <i>Construction and Building Materials</i> , <b>2010</b> , 24, 2188-2193	6.7	14
51	Stability of sepiolite in neutral and alkaline media at room temperature. <i>Clay Minerals</i> , <b>1996</b> , 31, 225-232	1.3	14
50	Solid state phases relationship in the CaO?SiO <sub>2</sub> ?Al <sub>2</sub> O <sub>3</sub> ?CaF <sub>2</sub> ?CaSO <sub>4</sub> system. <i>Cement and Concrete Research</i> , <b>1995</b> , 25, 870-882	10.3	14
49	Surface dispersive energy determined with IGC-ID in anti-graffiti-coated building materials. <i>Progress in Organic Coatings</i> , <b>2011</b> , 71, 207-212	4.8	13
48	Protective performances of two anti-graffiti treatments towards sulfite and sulfate formation in SO <sub>2</sub> polluted model environment. <i>Applied Surface Science</i> , <b>2010</b> , 257, 852-856	6.7	13
47	Effect of fluorspar on the formation of clinker phases. <i>Cement and Concrete Research</i> , <b>1984</b> , 14, 397-406	10.3	13
46	Thermal analysis of blended cements. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 1197-1204	4.1	12
45	Effect of BaCO <sub>3</sub> on C <sub>3</sub> A hydration. <i>Cement and Concrete Research</i> , <b>2015</b> , 73, 70-78	10.3	11
44	Activated carbon as an alternative fuel. Effect of carbon ash on cement clinkerization. <i>Journal of Cleaner Production</i> , <b>2016</b> , 119, 50-58	10.3	11

43	Modelling of the burnability of white cement raw mixes made with CaF <sub>2</sub> and CaSO <sub>4</sub> . <i>Cement and Concrete Research</i> , <b>1996</b> , 26, 457-464	10.3	11
42	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> , <b>2018</b> , 142, 1-7	1.7	11
41	Combined Effect of Amorphous Nanosilica and Temperature on White Portland Cement Hydration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 11866-11874	3.9	10
40	Acrylic fibres as reinforcement for cement pastes. <i>Cement and Concrete Composites</i> , <b>1994</b> , 16, 31-37	8.6	10
39	Decay of Roman and repair mortars in mosaics from Italica, Spain. <i>Science of the Total Environment</i> , <b>1994</b> , 153, 123-131	10.2	10
38	Assessment of the physico-mechanical behaviour of gypsum-lime repair mortars as a function of curing time. <i>Environmental Earth Sciences</i> , <b>2013</b> , 70, 1605-1618	2.9	9
37	Effect of temperature on CSH gel nanostructure in white cement. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2014</b> , 47, 1867-1878	3.4	9
36	Role of organic admixtures on thaumasite precipitation. <i>Cement and Concrete Research</i> , <b>2012</b> , 42, 994-1000	10.3	9
35	Thaumasite formation in sugary solutions: Effect of temperature and sucrose concentration. <i>Construction and Building Materials</i> , <b>2011</b> , 25, 21-29	6.7	9
34	Sacrificial mortars for surface desalination. <i>Construction and Building Materials</i> , <b>2018</b> , 173, 452-460	6.7	8
33	Characterization of Ca <sub>2</sub> AlMnO <sub>5</sub> . A comparative study between Ca <sub>2</sub> AlMnO <sub>5</sub> and Ca <sub>2</sub> AlFeO <sub>5</sub> . <i>Cement and Concrete Research</i> , <b>1990</b> , 20, 429-438	10.3	8
32	Caracterizaci3n de morteros mud3res 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> , <b>2012</b> , 62, 515-529	1.8	8
31	Quantitative analysis of pure triclinic tricalcium silicate and CSH gels by <sup>29</sup> Si NMR longitudinal relaxation time. <i>Construction and Building Materials</i> , <b>2016</b> , 107, 52-57	6.7	7
30	Thaumasite formation due to atmospheric SO <sub>2</sub> /hydraulic mortar interaction. <i>Cement and Concrete Composites</i> , <b>2003</b> , 25, 983-990	8.6	7
29	Influence of sand nature on burnability of white cement RAW mixes made using CaF <sub>2</sub> and CaSO <sub>4</sub> fluxing/mineralizer pair. <i>Cement and Concrete Research</i> , <b>1996</b> , 26, 1361-1367	10.3	7
28	Influence of KOH solution on the hydration and carbonation of high alumina cement mortars. <i>Journal of Materials Science</i> , <b>1996</b> , 31, 2819-2827	4.3	7
27	Influence of the kiln atmosphere on manganese solid solution in Ca <sub>3</sub> SiO <sub>5</sub> and CA <sub>2</sub> SiO <sub>4</sub> . <i>Cement and Concrete Research</i> , <b>1988</b> , 18, 783-788	10.3	7
26	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> , <b>2018</b> , 189, 539-549	6.7	7

25	Role of alkalis of aggregate origin in the deterioration of CAC concrete. <i>Cement and Concrete Research</i> , <b>2005</b> , 35, 1698-1704	10.3	6
24	Hydration of high alumina cement in the presence of alkalis. <i>Advances in Cement Research</i> , <b>2000</b> , 12, 143-152	10.3	6
23	Studies about a sulphate resistant cement. Influence of admixtures. <i>Cement and Concrete Research</i> , <b>1994</b> , 24, 1177-1184	10.3	6
22	The behaviour of a low energy cement in Na <sub>2</sub> SO <sub>4</sub> and sea water media. <i>Cement and Concrete Research</i> , <b>1992</b> , 22, 793-803	10.3	6
21	Influencia de la incorporaci3n conjunta del CaF <sub>2</sub> y del CaSO <sub>4</sub> en el proceso de clinkerizaci3n. Obtenci3n de nuevos cementos. <i>Materiales De Construccion</i> , <b>1995</b> , 45, 21-39	1.8	6
20	Effect of concentration, particle size and the presence of protective coatings in DRIFT spectra of building materials. <i>Vibrational Spectroscopy</i> , <b>2009</b> , 50, 312-318	2.1	5
19	Archaeal communities in two disparate deteriorated ancient wall paintings: detection, identification and temporal monitoring by denaturing gradient gel electrophoresis. <i>FEMS Microbiology Ecology</i> , <b>2001</b> , 37, 45-54	4.3	5
18	Cements reinforced by acrylic fibers. Infrared studies. I. Hydration and hydrolysis processes in the fibers. <i>Cement and Concrete Research</i> , <b>1990</b> , 20, 702-710	10.3	5
17	Fases termodin3micamente estables en el sistema cerrado CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -CaSO <sub>4</sub> -H <sub>2</sub> O a 25 °C. Aplicaci3n a sistemas cementantes. <i>Materiales De Construccion</i> , <b>2009</b> , 59, 31-39	1.8	5
16	Calorimetric study of the early stages of the nanosilica - tricalcium silicate hydration. Effect of temperature. <i>Materiales De Construccion</i> , <b>2015</b> , 65, e070	1.8	5
15	Phase relations in the system Ca <sub>2</sub> SiO <sub>4</sub> -CaO-CaSO <sub>4</sub> -CaF <sub>2</sub> relevant to cement clinkering. <i>Advances in Cement Research</i> , <b>1992</b> , 4, 81-86	1.8	4
14	Hydration of 4CaO·Al <sub>2</sub> O <sub>3</sub> ·Mn <sub>2</sub> O <sub>3</sub> in the absence and the presence of gypsum. A comparative study with the hydration of 4CaO·Al <sub>2</sub> O <sub>3</sub> ·Fe <sub>2</sub> O <sub>3</sub> . <i>Cement and Concrete Research</i> , <b>1993</b> , 23, 20-32	10.3	4
13	New approach to nanolime synthesis at ambient temperature. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	3
12	Freeze-Thaw and UV Resistance in Building Stone Coated with Two Permanent Anti-graffiti Treatments <b>2015</b> , 531-534		3
11	Radiological behaviour of pigments and water repellents in cement-based mortars. <i>Construction and Building Materials</i> , <b>2019</b> , 225, 879-885	6.7	3
10	Evolution of ordinary Portland cement hydration with admixtures by spectroscopic techniques. <i>Advances in Cement Research</i> , <b>2006</b> , 18, 111-117	1.8	3
9	Modificaciones inducidas por la adici3n de puzolanas naturales zeol3micas en las pastas de cemento. <i>Materiales De Construccion</i> , <b>2005</b> , 55, 27-42	1.8	3
8	Modification on the tricalcium aluminate phase in cements by manganese substitution. <i>Cement and Concrete Research</i> , <b>1988</b> , 18, 837-842	10.3	2

7	Morteros de reparaci3n basados en cal. Ensayos de envejecimiento acelerado. <i>Materiales De Construccion</i> , <b>1995</b> , 45, 35-45	1.8	2
6	Mineralogical Composition of Clinker as an Indicator of Sulfate Resistance: A Rietveld XRD/Takashima Approach. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3637-3642	3.8	1
5	Solid state compatibilities in CaO-CaO $\cdot$ Al <sub>2</sub> O <sub>3</sub> -CaSO <sub>4</sub> -CaF <sub>2</sub> system. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 2961-2964	4.3	1
4	Rheology of Cementitious Materials: Alkali-Activated Materials or Geopolymers. <i>MATEC Web of Conferences</i> , <b>2018</b> , 149, 01002	0.3	1
3	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> , <b>1995</b> , 25, 1131-1132	10.3	
2	Ternesite as a component of sulfobeltic cements. <i>MATEC Web of Conferences</i> , <b>2018</b> , 149, 01011	0.3	
1	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> , <b>2018</b> , 68, 166	1.8	