

Isabel Santacruz

List of Publications by Year in descending order

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docs citations

87
times ranked

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#	ARTICLE	IF	CITATIONS
1	Rietveld quantitative phase analysis of Yeelimite-containing cements. <i>Cement and Concrete Research</i> , 2012, 42, 960-971.	4.6	184
2	Effect of calcium sulfate source on the hydration of calcium sulfoaluminate eco-cement. <i>Cement and Concrete Composites</i> , 2015, 55, 53-61.	4.6	165
3	Hydration studies of calcium sulfoaluminate cements blended with fly ash. <i>Cement and Concrete Research</i> , 2013, 54, 12-20.	4.6	152
4	Dense nanostructured zirconia by two stage conventional/hybrid microwave sintering. <i>Journal of the European Ceramic Society</i> , 2008, 28, 973-977.	2.8	106
5	Rheological and hydration characterization of calcium sulfoaluminate cement pastes. <i>Cement and Concrete Composites</i> , 2012, 34, 684-691.	4.6	96
6	Multiscale understanding of tricalcium silicate hydration reactions. <i>Scientific Reports</i> , 2018, 8, 8544.	1.6	92
7	Pseudocubic Crystal Structure and Phase Transition in Doped Ye TM elimitite. <i>Crystal Growth and Design</i> , 2014, 14, 5158-5163.	1.4	71
8	Alumina bodies with near-to-theoretical density by aqueous gelcasting using concentrated agarose solutions. <i>Ceramics International</i> , 2005, 31, 439-445.	2.3	69
9	Hydration Reactions and Mechanical Strength Developments of Iron-Rich Sulfoaluminato Eco-cements. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16606-16614.	1.8	60
10	Preparation of High Solids Content Nanozirconia Suspensions. <i>Journal of the American Ceramic Society</i> , 2008, 91, 398-405.	1.9	55
11	Clinkering and hydration of belite-alite-ye TM elimitite cement. <i>Cement and Concrete Composites</i> , 2017, 80, 333-341.	4.6	55
12	Slip casting of nanozirconia/MWCNT composites using a heterocoagulation process. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1939-1945.	2.8	52
13	In-situ early-age hydration study of sulfoaluminato cements by synchrotron powder diffraction. <i>Cement and Concrete Research</i> , 2014, 56, 12-19.	4.6	52
14	Hydration of belite-ye TM elimitite-ferrite cements with different calcium sulfate sources. <i>Advances in Cement Research</i> , 2016, 28, 529-543.	0.7	47
15	Dispersion of TiO ₂ nanopowders to obtain homogeneous nanostructured granules by spray-drying. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1413-1419.	2.8	46
16	Local structure and Ca/Si ratio in C-S-H gels from hydration of blends of tricalcium silicate and silica fume. <i>Cement and Concrete Research</i> , 2021, 143, 106405.	4.6	45
17	Preparation and spray drying of Al ₂ O ₃ -TiO ₂ nanoparticle suspensions to obtain nanostructured coatings by APS. <i>Surface and Coatings Technology</i> , 2010, 205, 987-992.	2.2	41
18	Alite-belite-ye TM elimitite cements: Effect of dopants on the clinker phase composition and properties. <i>Cement and Concrete Research</i> , 2019, 115, 192-202.	4.6	41

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19	Aluminum hydroxide gel characterization within a calcium aluminate cement paste by combined Pair Distribution Function and Rietveld analyses. <i>Cement and Concrete Research</i> , 2017, 96, 1-12.	4.6	40
20	Hydration of C4AF in the presence of other phases: A synchrotron X-ray powder diffraction study. <i>Construction and Building Materials</i> , 2015, 101, 818-827.	3.2	39
21	Accuracy in Rietveld quantitative phase analysis: a comparative study of strictly monochromatic Mo and Cu radiations. <i>Journal of Applied Crystallography</i> , 2016, 49, 722-735.	1.9	37
22	Chemistry and Mass Density of Aluminum Hydroxide Gel in Eco-Cements by Ptychographic X-ray Computed Tomography. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3044-3054.	1.5	37
23	Structural characterization of bulk ZrTiO ₄ and its potential for thermal shock applications. <i>Journal of the European Ceramic Society</i> , 2012, 32, 299-306.	2.8	36
24	Structure of stratlingite and effect of hydration methodology on microstructure. <i>Advances in Cement Research</i> , 2016, 28, 13-22.	0.7	35
25	Hydration development and thermal performance of calcium sulphoaluminate cements containing microencapsulated phase change materials. <i>Cement and Concrete Research</i> , 2020, 132, 106039.	4.6	34
26	Effect of microencapsulated phase change materials on the flow behavior of cement composites. <i>Construction and Building Materials</i> , 2019, 202, 353-362.	3.2	33
27	Rheological Characterization of Synergistic Mixtures of Carrageenan and Locust Bean Gum for Aqueous Gelcasting of Alumina. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2432-2436.	1.9	30
28	Application of alginate gelation to aqueous tape casting technology. <i>Materials Research Bulletin</i> , 2002, 37, 671-682.	2.7	29
29	Colloidal Processing of Macroporous TiO_2 Materials for Photocatalytic Water Treatment. <i>Journal of the American Ceramic Society</i> , 2012, 95, 502-508.	1.9	29
30	Tailored setting times with high compressive strengths in bassanite calcium sulfoaluminate eco-cements. <i>Cement and Concrete Composites</i> , 2016, 72, 39-47.	4.6	29
31	Improved green properties of gelcast alumina through multiple synergistic interaction of polysaccharides. <i>Journal of the European Ceramic Society</i> , 2003, 23, 1785-1793.	2.8	27
32	Zirconia-MWCNT nanocomposites for biomedical applications obtained by colloidal processing. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1445-1451.	1.7	26
33	Processing and characterisation of standard and doped alite-belite-ye'elinite ecocement pastes and mortars. <i>Cement and Concrete Research</i> , 2020, 127, 105911.	4.6	24
34	Improved Green Strength of Ceramics Through Aqueous Gelcasting. <i>Advanced Engineering Materials</i> , 2004, 6, 672-676.	1.6	22
35	Preparation of Cordierite Materials with Tailored Porosity by Gelcasting with Polysaccharides. <i>International Journal of Applied Ceramic Technology</i> , 2008, 5, 74-83.	1.1	22
36	Quantitative disentanglement of nanocrystalline phases in cement pastes by synchrotron ptychographic X-ray tomography. <i>IUCr</i> , 2019, 6, 473-491.	1.0	22

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37	Tape casting of strontium and cobalt doped lanthanum chromite suspensions. Journal of the European Ceramic Society, 2010, 30, 2897-2903.	2.8	20
38	Preparation of aluminium lanthanum oxyapatite tapes, La ₁₀ AlSi ₅ O _{26.5} , by tape casting and reaction sintering. Journal of the European Ceramic Society, 2011, 31, 1573-1580.	2.8	20
39	Tape Casting Performance of Ethanol Slurries for the Processing of Textured PMN-PT Ceramics from Nanocrystalline Powder. Journal of the American Ceramic Society, 2009, 92, 996-1001.	1.9	19
40	Shaping of Dense Advanced Ceramics and Coatings by Gelation of Polysaccharides. Advanced Engineering Materials, 2014, 16, 637-654.	1.6	19
41	Aqueous injection moulding of porcelains. Journal of the European Ceramic Society, 2003, 23, 2053-2060.	2.8	18
42	Rheological Characterisation of Electrosterically Dispersed Alumina Suspensions During In Situ Coagulation. Journal of the American Ceramic Society, 2006, 89, 863-868.	1.9	18
43	Synchrotron Radiation Pair Distribution Function Analysis of Gels in Cements. Crystals, 2017, 7, 317.	1.0	18
44	Thermogelation of Al ₂ O ₃ /Y-TZP films produced by electrophoretic co-deposition. Journal of the European Ceramic Society, 2004, 24, 3073-3080.	2.8	16
45	Gel casting of aqueous suspensions of BaTiO ₃ nanopowders. Ceramics International, 2009, 35, 321-326.	2.3	15
46	Alite sulfoaluminate clinker: Rietveld mineralogical and SEM-EDX analysis. Advances in Cement Research, 2014, 26, 10-20.	0.7	15
47	Amorphous determination in calcium sulfoaluminate materials by external and internal methods. Advances in Cement Research, 2015, 27, 417-423.	0.7	15
48	Phase and microstructure evolutions in LC3 binders by multi-technique approach including synchrotron microtomography. Construction and Building Materials, 2021, 300, 124054.	3.2	15
49	Wet forming of concentrated nano-BaTiO ₃ suspensions. Journal of the European Ceramic Society, 2009, 29, 881-886.	2.8	14
50	Fabrication of Sr- and Co-doped lanthanum chromite interconnectors for SOFC. Materials Research Bulletin, 2011, 46, 983-986.	2.7	14
51	Rheological Characterization and Coagulation Casting of Al ₂ O ₃ "Nano Zirconia Suspensions. Journal of the American Ceramic Society, 2008, 91, 33-40.	1.9	13
52	Photodegradation of Phenol over a Hybrid Organo-Inorganic Material: Iron(II) Hydroxyphosphonoacetate. Journal of Physical Chemistry C, 2012, 116, 14526-14533.	1.5	13
53	Strontium and cobalt doped-lanthanum chromite: Characterisation of synthesised powders and sintered materials. Ceramics International, 2015, 41, 1177-1187.	2.3	13
54	Gel-Extrusion: A New Continuous Forming Technique. Advanced Engineering Materials, 2002, 4, 913-915.	1.6	12

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55	A Novel Method to Prepare Zeolites with Hierarchical Porosity. <i>Advanced Engineering Materials</i> , 2005, 7, 858-861.	1.6	12
56	Colloidal Processing and Characterization of Aluminum-Doped Lanthanum Oxyapatite, La ₁₀ AlSi ₅ O _{26.5} . <i>Journal of the American Ceramic Society</i> , 2011, 94, 117-123.	1.9	12
57	Single step reactive sintering and chemical compatibility between La ₉ Sr ₁ Si ₆ O _{26.5} and selected cathode materials. <i>Ceramics International</i> , 2012, 38, 3327-3335.	2.3	12
58	Preparation of photocatalytic TiO ₂ coatings by gel-dipping with polysaccharides. <i>Ceramics International</i> , 2012, 38, 6531-6540.	2.3	10
59	Reaction sintered zirconium titanate zirconia bulk materials from 3Y ₂ O ₃ -stabilized zirconia and TiO ₂ . Phase composition and their potential for thermal shock applications. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1205-1211.	2.8	10
60	Influence of fly ash blending on hydration and physical behavior of belite alite ye'elite cements. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	1.3	10
61	Reaction sintering of colloidal processed mixtures of sub-micrometric alumina and nano-titania. <i>Ceramics International</i> , 2011, 37, 1085-1092.	2.3	9
62	Oxy-apatite reaction sintering of colloidal and classic ceramic processed powders. <i>Ceramics International</i> , 2012, 38, 1851-1858.	2.3	9
63	Fast Consolidation in Aqueous Tape Casting through Alginate Gelation. <i>Advanced Engineering Materials</i> , 2001, 3, 906.	1.6	8
64	Ceramic Films Produced by a Gel-Dipping Process. <i>Advanced Engineering Materials</i> , 2003, 5, 647-650.	1.6	8
65	Graded ceramic coatings produced by thermogelation of polysaccharides. <i>Materials Letters</i> , 2004, 58, 2579-2582.	1.3	8
66	Experimental and theoretical high pressure study of calcium hydroxyaluminate phases. <i>Cement and Concrete Research</i> , 2017, 97, 1-10.	4.6	8
67	Synchrotron pair distribution function analyses of ye'elite-based pastes. <i>Advances in Cement Research</i> , 2019, 31, 138-146.	0.7	7
68	Influence of the Addition of Multiwall Carbon Nanotubes in the Sintering of Nanostructured Yttria-stabilized Tetragonal Zirconia Polycrystalline. <i>International Journal of Applied Ceramic Technology</i> , 2012, 9, 193-198.	1.1	6
69	Rietveld quantitative phase analysis with molybdenum radiation. <i>Powder Diffraction</i> , 2015, 30, 25-35.	0.4	6
70	Hydration Activation of Alite-Belite-Ye'elite Cements by Doping with Boron. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3583-3590.	3.2	6
71	Effect of Boron and Water-to-Cement Ratio on the Performances of Laboratory Prepared Belite-Ye'elite-Ferrite (BYF) Cements. <i>Materials</i> , 2021, 14, 4862.	1.3	6
72	1. Diffraction and crystallography applied to anhydrous cements. , 2017, , 3-30.		5

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73	Phase-selective degree of hydration at setting: An in situ synchrotron diffraction study. Construction and Building Materials, 2022, 328, 127117.	3.2	4
74	Colloidal processing and characterisation of lanthanum tungstate sheets, La ₅ WO _{11.25} , prepared by tape casting and reaction sintering. Ceramics International, 2015, 41, 11334-11340.	2.3	3
75	2. Diffraction and crystallography applied to hydrating cements. , 2017, , 31-60.		3
76	Dispersion and Rheology of Aqueous Suspensions of Nanosized BaTiO ₃ . International Journal of Applied Ceramic Technology, 2010, 7, E135.	1.1	1
77	X-ray diffraction, cements and environment, three worlds in one.. MATEC Web of Conferences, 2018, 149, 01003.	0.1	1
78	Nuevas aplicaciones de los alginatos en el conformado cerámico. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2005, 44, 45-52.	0.9	1
79	Aqueous Tape Casting of Al ₂ O ₃ Based on Alginate Gelation. Key Engineering Materials, 2002, 206-213, 409-412.	0.4	0
80	Gelcasting of Dense Alumina Bodies Using Concentrated Agarose Gels. Key Engineering Materials, 2004, 264-268, 193-196.	0.4	0
81	Forming of Ceramic Coatings by Dipping and EPD Through Carrageenan Gelation. Key Engineering Materials, 2004, 264-268, 185-188.	0.4	0
82	Thermogelation of Composite Films Produced by Electrophoretic Codeposition. Key Engineering Materials, 2006, 314, 63-68.	0.4	0
83	Influência da atmosfera na sinterização do cromito de lantânio dopado. Ceramica, 2013, 59, 366-371.	0.3	0
84	Understanding cement hydration by pair distribution function and Rietveld analyses. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C884-C884.	0.0	0
85	Comportamento reológico de suspensões aquosas de cromito de lantânio. Ceramica, 2011, 57, 237-243.	0.3	0
86	X-ray diffraction, cements and environment, three worlds in one.. MATEC Web of Conferences, 2018, 149, 01003.	0.1	0