Isabel Santacruz

List of Publications by Year in descending order

86 papers	2,432 citations	172386 29 h-index	223716 46 g-index
87 all docs	87 docs citations	87 times ranked	1731 citing authors

#	Article	IF	Citations
1	Phase-selective degree of hydration at setting: An in situ synchrotron diffraction study. Construction and Building Materials, 2022, 328, 127117.	3.2	4
2	Local structure and Ca/Si ratio in C-S-H gels from hydration of blends of tricalcium silicate and silica fume. Cement and Concrete Research, 2021, 143, 106405.	4.6	45
3	Effect of Boron and Water-to-Cement Ratio on the Performances of Laboratory Prepared Belite-Yeâ€™elimite-Ferrite (BYF) Cements. Materials, 2021, 14, 4862.	1.3	6
4	Phase and microstructure evolutions in LC3 binders by multi-technique approach including synchrotron microtomography. Construction and Building Materials, 2021, 300, 124054.	3.2	15
5	Processing and characterisation of standard and doped alite-belite-ye'elimite ecocement pastes and mortars. Cement and Concrete Research, 2020, 127, 105911.	4.6	24
6	Hydration development and thermal performance of calcium sulphoaluminate cements containing microencapsulated phase change materials. Cement and Concrete Research, 2020, 132, 106039.	4.6	34
7	Hydration Activation of Alite-Belite-Yeâ€™elimite Cements by Doping with Boron. ACS Sustainable Chemistry and Engineering, 2020, 8, 3583-3590.	3.2	6
8	Synchrotron pair distribution function analyses of ye'elimite-based pastes. Advances in Cement Research, 2019, 31, 138-146.	0.7	7
9	Effect of microencapsulated phase change materials on the flow behavior of cement composites. Construction and Building Materials, 2019, 202, 353-362.	3.2	33
10	Alite-belite-ye'elimite cements: Effect of dopants on the clinker phase composition and properties. Cement and Concrete Research, 2019, 115, 192-202.	4.6	41
11	Quantitative disentanglement of nanocrystalline phases in cement pastes by synchrotron ptychographic X-ray tomography. IUCrJ, 2019, 6, 473-491.	1.0	22
12	X-ray diffraction, cements and environment, three worlds in one.. MATEC Web of Conferences, 2018, 149, 01003.	0.1	1
13	Influence of fly ash blending on hydration and physical behavior of beliteâ€“aliteâ€“yeâ€™elimite cements. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	1.3	10
14	Multiscale understanding of tricalcium silicate hydration reactions. Scientific Reports, 2018, 8, 8544.	1.6	92
15	X-ray diffraction, cements and environment, three worlds in one.. MATEC Web of Conferences, 2018, 149, 01003.	0.1	0
16	Chemistry and Mass Density of Aluminum Hydroxide Gel in Eco-Cements by Ptychographic X-ray Computed Tomography. Journal of Physical Chemistry C, 2017, 121, 3044-3054.	1.5	37
17	Clinkering and hydration of belite-alite-yeÂ´elimite cement. Cement and Concrete Composites, 2017, 80, 333-341.	4.6	55
18	Experimental and theoretical high pressure study of calcium hydroxyaluminate phases. Cement and Concrete Research, 2017, 97, 1-10.	4.6	8

#	Article	IF	Citations
19	Aluminum hydroxide gel characterization within a calcium aluminate cement paste by combined Pair Distribution Function and Rietveld analyses. Cement and Concrete Research, 2017, 96, 1-12.	4.6	40
20	2. Diffraction and crystallography applied to hydrating cements. , 2017, , 31-60.		3
21	1. Diffraction and crystallography applied to anhydrous cements. , 2017, , 3-30.		5
22	Synchrotron Radiation Pair Distribution Function Analysis of Gels in Cements. Crystals, 2017, 7, 317.	1.0	18
23	Understanding cement hydration by pair distribution function and Rietveld analyses. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C884-C884.	0.0	0
24	Structure of stratlingite and effect of hydration methodology on microstructure. Advances in Cement Research, 2016, 28, 13-22.	0.7	35
25	Hydration of beliteâ€“ye'elimiteâ€“ferrite cements with different calcium sulfate sources. Advances in Cement Research, 2016, 28, 529-543.	0.7	47
26	Tailored setting times with high compressive strengths in bassanite calcium sulfoaluminate eco-cements. Cement and Concrete Composites, 2016, 72, 39-47.	4.6	29
27	Accuracy in Rietveld quantitative phase analysis: a comparative study of strictly monochromatic Mo and Cu radiations. Journal of Applied Crystallography, 2016, 49, 722-735.	1.9	37
28	Amorphous determination in calcium sulfoaluminate materials by external and internal methods. Advances in Cement Research, 2015, 27, 417-423.	0.7	15
29	Hydration of C4AF in the presence of other phases: A synchrotron X-ray powder diffraction study. Construction and Building Materials, 2015, 101, 818-827.	3.2	39
30	Colloidal processing and characterisation of lanthanum tungstate sheets, La5.5WO11.25, prepared by tape casting and reaction sintering. Ceramics International, 2015, 41, 11334-11340.	2.3	3
31	Rietveld quantitative phase analysis with molybdenum radiation. Powder Diffraction, 2015, 30, 25-35.	0.4	6
32	Strontium and cobalt doped-lanthanum chromite: Characterisation of synthesised powders and sintered materials. Ceramics International, 2015, 41, 1177-1187.	2.3	13
33	Effect of calcium sulfate source on the hydration of calcium sulfoaluminate eco-cement. Cement and Concrete Composites, 2015, 55, 53-61.	4.6	165
34	Shaping of Dense Advanced Ceramics and Coatings by Gelation of Polysaccharides. Advanced Engineering Materials, 2014, 16, 637-654.	1.6	19
35	Pseudocubic Crystal Structure and Phase Transition in Doped Yeâ€™elimite. Crystal Growth and Design, 2014, 14, 5158-5163.	1.4	71
36	In-situ early-age hydration study of sulfobelite cements by synchrotron powder diffraction. Cement and Concrete Research, 2014, 56, 12-19.	4.6	52

#	Article	IF	Citations
37	Alite sulfoaluminate clinker: Rietveld mineralogical and SEM-EDX analysis. Advances in Cement Research, 2014, 26, 10-20.	0.7	15
38	Hydration studies of calcium sulfoaluminate cements blended with fly ash. Cement and Concrete Research, 2013, 54, 12-20.	4.6	152
39	Hydration Reactions and Mechanical Strength Developments of Iron-Rich Sulfobelite Eco-cements. Industrial & Engineering Chemistry Research, 2013, 52, 16606-16614.	1.8	60
40	InfluÃªncia da atmosfera na sinterizaÃ§Ã£o do cromito de lantÃ¢nio dopado. Ceramica, 2013, 59, 366-371.	0.3	0
41	Photodegradation of Phenol over a Hybrid Organo-Inorganic Material: Iron(II) Hydroxyphosphonoacetate. Journal of Physical Chemistry C, 2012, 116, 14526-14533.	1.5	13
42	Preparation of photocatalytic TiO2 coatings by gel-dipping with polysaccharides. Ceramics International, 2012, 38, 6531-6540.	2.3	10
43	Colloidal Processing of Macroporous <scp><scp>TiO₂</scp></scp> Materials for Photocatalytic Water Treatment. Journal of the American Ceramic Society, 2012, 95, 502-508.	1.9	29
44	Influence of the Addition of Multiwall Carbon Nanotubes in the Sintering of Nanostructured Yttriaâ€Stabilized Tetragonal Zirconia Polycrystalline. International Journal of Applied Ceramic Technology, 2012, 9, 193-198.	1.1	6
45	Rheological and hydration characterization of calcium sulfoaluminate cement pastes. Cement and Concrete Composites, 2012, 34, 684-691.	4.6	96
46	Rietveld quantitative phase analysis of Yeelimite-containing cements. Cement and Concrete Research, 2012, 42, 960-971.	4.6	184
47	Oxy-apatite reaction sintering of colloidal and classic ceramic processed powders. Ceramics International, 2012, 38, 1851-1858.	2.3	9
48	Single step reactive sintering and chemical compatibility between La9Sr1Si6O26.5 and selected cathode materials. Ceramics International, 2012, 38, 3327-3335.	2.3	12
49	Structural characterization of bulk ZrTiO4 and its potential for thermal shock applications. Journal of the European Ceramic Society, 2012, 32, 299-306.	2.8	36
50	Reaction sintered zirconium titanateâ€“zirconia bulk materials from 3Y2O3-stabilized zirconia and TiO2. Phase composition and their potential for thermal shock applications. Journal of the European Ceramic Society, 2012, 32, 1205-1211.	2.8	10
51	Colloidal Processing and Characterization of Aluminum-Doped Lanthanum Oxyapatite, La10AlSi5O26.5. Journal of the American Ceramic Society, 2011, 94, 117-123.	1.9	12
52	Fabrication of Sr- and Co-doped lanthanum chromite interconnectors for SOFC. Materials Research Bulletin, 2011, 46, 983-986.	2.7	14
53	Reaction sintering of colloidal processed mixtures of sub-micrometric alumina and nano-titania. Ceramics International, 2011, 37, 1085-1092.	2.3	9
54	Dispersion of TiO2 nanopowders to obtain homogeneous nanostructured granules by spray-drying. Journal of the European Ceramic Society, 2011, 31, 1413-1419.	2.8	46

#	Article	IF	Citations
55	Preparation of aluminium lanthanum oxyapatite tapes, La10AlSi5O26.5, by tape casting and reaction sintering. Journal of the European Ceramic Society, 2011, 31, 1573-1580.	2.8	20
56	Comportamento reolÃ³gico de suspensÃµes aquosas de cromito de lantÃ¢nio. Ceramica, 2011, 57, 237-243.	0.3	0
57	Dispersion and Rheology of Aqueous Suspensions of Nanosized BaTiO₃. International Journal of Applied Ceramic Technology, 2010, 7, E135.	1.1	1
58	Zirconia-MWCNT nanocomposites for biomedical applications obtained by colloidal processing. Journal of Materials Science: Materials in Medicine, 2010, 21, 1445-1451.	1.7	26
59	Tape casting of strontium and cobalt doped lanthanum chromite suspensions. Journal of the European Ceramic Society, 2010, 30, 2897-2903.	2.8	20
60	Preparation and spray drying of Al2O3â€“TiO2 nanoparticle suspensions to obtain nanostructured coatings by APS. Surface and Coatings Technology, 2010, 205, 987-992.	2.2	41
61	Tapeâ€Casting Performance of Ethanol Slurries for the Processing of Textured PMNâ€“PT Ceramics from Nanocrystalline Powder. Journal of the American Ceramic Society, 2009, 92, 996-1001.	1.9	19
62	Wet forming of concentrated nano-BaTiO3 suspensions. Journal of the European Ceramic Society, 2009, 29, 881-886.	2.8	14
63	Slip casting of nanozirconia/MWCNT composites using a heterocoagulation process. Journal of the European Ceramic Society, 2009, 29, 1939-1945.	2.8	52
64	Gel casting of aqueous suspensions of BaTiO3 nanopowders. Ceramics International, 2009, 35, 321-326.	2.3	15
65	Rheological Characterization and Coagulation Casting of Al₂O₃â€“Nano Zirconia Suspensions. Journal of the American Ceramic Society, 2008, 91, 33-40.	1.9	13
66	Dense nanostructured zirconia by two stage conventional/hybrid microwave sintering. Journal of the European Ceramic Society, 2008, 28, 973-977.	2.8	106
67	Preparation of Cordierite Materials with Tailored Porosity by Gelcasting with Polysaccharides. International Journal of Applied Ceramic Technology, 2008, 5, 74-83.	1.1	22
68	Preparation of High Solids Content Nanozirconia Suspensions. Journal of the American Ceramic Society, 2008, 91, 398-405.	1.9	55
69	Rheological Characterisation of Electrosterically Dispersed Alumina Suspensions During In Situ Coagulation. Journal of the American Ceramic Society, 2006, 89, 863-868.	1.9	18
70	Thermogelation of Composite Films Produced by Electrophoretic Codeposition. Key Engineering Materials, 2006, 314, 63-68.	0.4	0
71	Alumina bodies with near-to-theoretical density by aqueous gelcasting using concentrated agarose solutions. Ceramics International, 2005, 31, 439-445.	2.3	69
72	A Novel Method to Prepare Zeolites with Hierarchical Porosity. Advanced Engineering Materials, 2005, 7, 858-861.	1.6	12

#	Article	IF	Citations
73	Nuevas aplicaciones de los alginatos en el conformado cerÃ¡mico. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 45-52.	0.9	1
74	Gelcasting of Dense Alumina Bodies Using Concentrated Agarose Gels. Key Engineering Materials, 2004, 264-268, 193-196.	0.4	0
75	Forming of Ceramic Coatings by Dipping and EPD Through Carrageenan Gelation. Key Engineering Materials, 2004, 264-268, 185-188.	0.4	0
76	Improved Green Strength of Ceramics Through Aqueous Gelcasting. Advanced Engineering Materials, 2004, 6, 672-676.	1.6	22
77	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
78	Graded ceramic coatings produced by thermogelation of polysaccharides. Materials Letters, 2004, 58, 2579-2582.	1.3	8
79	Ceramic Films Produced by a Gel-Dipping Process. Advanced Engineering Materials, 2003, 5, 647-650.	1.6	8
80	Improved green properties of gelcast alumina through multiple synergistic interaction of polysaccharides. Journal of the European Ceramic Society, 2003, 23, 1785-1793.	2.8	27
81	Aqueous injection moulding of porcelains. Journal of the European Ceramic Society, 2003, 23, 2053-2060.	2.8	18
82	Aqueous Tape Casting of Al₂O₃ Based on Alginate Gelation. Key Engineering Materials, 2002, 206-213, 409-412.	0.4	0
83	Application of alginate gelation to aqueous tape casting technology. Materials Research Bulletin, 2002, 37, 671-682.	2.7	29
84	Gel-Extrusion: A New Continuous Forming Technique. Advanced Engineering Materials, 2002, 4, 913-915.	1.6	12
85	Rheological Characterization of Synergistic Mixtures of Carrageenan and Locust Bean Gum for Aqueous Gelcasting of Alumina. Journal of the American Ceramic Society, 2002, 85, 2432-2436.	1.9	30
86	Fast Consolidation in Aqueous Tape Casting through Alginate Gelation. Advanced Engineering Materials, 2001, 3, 906.	1.6	8