

Angeles G De La Torre

List of Publications by Citations

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84
papers

3,499
citations

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h-index

58
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88
ext. papers

4,157
ext. citations

5.6
avg, IF

5.32
L-index

#	Paper	IF	Citations
84	An XRD study of the effect of the SiO ₂ /Na ₂ O ratio on the alkali activation of fly ash. <i>Cement and Concrete Research</i> , 2007 , 37, 671-679	10.3	328
83	Rietveld quantitative amorphous content analysis. <i>Journal of Applied Crystallography</i> , 2001 , 34, 196-202	3.8	231
82	Quantitative determination of phases in the alkali activation of fly ash. Part I. Potential ash reactivity. <i>Fuel</i> , 2006 , 85, 625-634	7.1	188
81	Quantitative determination of phases in the alkaline activation of fly ash. Part II: Degree of reaction. <i>Fuel</i> , 2006 , 85, 1960-1969	7.1	144
80	The superstructure of C3S from synchrotron and neutron powder diffraction and its role in quantitative phase analyses. <i>Cement and Concrete Research</i> , 2002 , 32, 1347-1356	10.3	136
79	Rietveld quantitative phase analysis of Yeelimite-containing cements. <i>Cement and Concrete Research</i> , 2012 , 42, 960-971	10.3	134
78	Hydration studies of calcium sulfoaluminate cements blended with fly ash. <i>Cement and Concrete Research</i> , 2013 , 54, 12-20	10.3	106
77	Effect of calcium sulfate source on the hydration of calcium sulfoaluminate eco-cement. <i>Cement and Concrete Composites</i> , 2015 , 55, 53-61	8.6	104
76	Structure, Atomistic Simulations, and Phase Transition of Stoichiometric Yeelimite. <i>Chemistry of Materials</i> , 2013 , 25, 1680-1687	9.6	104
75	Rietveld Quantitative Phase Analysis of OPC Clinkers, Cements and Hydration Products. <i>Reviews in Mineralogy and Geochemistry</i> , 2012 , 74, 169-209	7.1	98
74	Aluminum-rich belite sulfoaluminate cements: Clinkering and early age hydration. <i>Cement and Concrete Research</i> , 2010 , 40, 359-369	10.3	94
73	Hydration mechanisms of two polymorphs of synthetic ye'elimite. <i>Cement and Concrete Research</i> , 2014 , 63, 127-136	10.3	90
72	Accuracy in Rietveld quantitative phase analysis of Portland cements. <i>Journal of Applied Crystallography</i> , 2003 , 36, 1169-1176	3.8	87
71	Active iron-rich belite sulfoaluminate cements: clinkering and hydration. <i>Environmental Science & Technology</i> , 2010 , 44, 6855-62	10.3	76
70	Rheological and hydration characterization of calcium sulfoaluminate cement pastes. <i>Cement and Concrete Composites</i> , 2012 , 34, 684-691	8.6	70
69	Evolution with Temperature of Crystalline and Amorphous Phases in Porcelain Stoneware. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 229-234	3.8	68
68	Crystal structures and in-situ formation study of mayenite electrides. <i>Inorganic Chemistry</i> , 2007 , 46, 4167-76	7.6	68

67	Full phase analysis of portland clinker by penetrating synchrotron powder diffraction. <i>Analytical Chemistry</i> , 2001 , 73, 151-6	7.8	66
66	Mineralogical phase analysis of alkali and sulfate bearing belite rich laboratory clinkers. <i>Cement and Concrete Research</i> , 2007 , 37, 639-646	10.3	64
65	Pseudocubic Crystal Structure and Phase Transition in Doped Ye β limate. <i>Crystal Growth and Design</i> , 2014 , 14, 5158-5163	3.5	59
64	Reactive belite stabilization mechanisms by boron-bearing dopants. <i>Cement and Concrete Research</i> , 2012 , 42, 598-606	10.3	58
63	Crystal structure of low magnesium-content alite: Application to Rietveld quantitative phase analysis. <i>Cement and Concrete Research</i> , 2008 , 38, 1261-1269	10.3	56
62	Multiscale understanding of tricalcium silicate hydration reactions. <i>Scientific Reports</i> , 2018 , 8, 8544	4.9	52
61	Phase development in conventional and active belite cement pastes by Rietveld analysis and chemical constraints. <i>Cement and Concrete Research</i> , 2009 , 39, 833-842	10.3	48
60	Quantitative Phase Analysis of Laboratory-Active Belite Clinkers by Synchrotron Powder Diffraction. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3205-3212	3.8	48
59	Round robin on Rietveld quantitative phase analysis of Portland cements. <i>Journal of Applied Crystallography</i> , 2009 , 42, 906-916	3.8	47
58	Structure and microstructure of gypsum and its relevance to Rietveld quantitative phase analyses. <i>Powder Diffraction</i> , 2004 , 19, 240-246	1.8	44
57	Hydration Reactions and Mechanical Strength Developments of Iron-Rich Sulfo-belite Eco-cements. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16606-16614	3.9	43
56	In-situ early-age hydration study of sulfo-belite cements by synchrotron powder diffraction. <i>Cement and Concrete Research</i> , 2014 , 56, 12-19	10.3	40
55	Sulfoaluminate cement 2013 , 488-522		37
54	Hydration of belite β -elimit β -errite cements with different calcium sulfate sources. <i>Advances in Cement Research</i> , 2016 , 28, 529-543	1.8	35
53	Clinkering and hydration of belite-alite-ye β limate cement. <i>Cement and Concrete Composites</i> , 2017 , 80, 333-341	8.6	33
52	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	3.8	31
51	In situ powder diffraction study of belite sulfoaluminate β clinkering. <i>Journal of Synchrotron Radiation</i> , 2011 , 18, 506-14	2.4	31
50	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	3.8	30

49	Colloidal Processing of Macroporous TiO ₂ Materials for Photocatalytic Water Treatment. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 502-508	3.8	29
48	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	10.3	28
47	Quantitative analysis of mineralized white Portland clinkers: The structure of Fluorellestadite. <i>Powder Diffraction</i> , 2002 , 17, 281-286	1.8	25
46	Mechanism of stabilization of dicalcium silicate solid solution with aluminium. <i>Dalton Transactions</i> , 2014 , 43, 2176-82	4.3	23
45	Structure of stratlingite and effect of hydration methodology on microstructure. <i>Advances in Cement Research</i> , 2016 , 28, 13-22	1.8	23
44	Alite-belite-ye'elimites cements: Effect of dopants on the clinker phase composition and properties. <i>Cement and Concrete Research</i> , 2019 , 115, 192-202	10.3	23
43	Tailored setting times with high compressive strengths in bassanite calcium sulfoaluminate eco-cements. <i>Cement and Concrete Composites</i> , 2016 , 72, 39-47	8.6	22
42	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	6.7	22
41	Direct mineralogical composition of a MgO-C refractory material obtained by Rietveld methodology. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 2587-2592	6	22
40	Effects of sulfates on the hydration of Portland cement [A review]. <i>Construction and Building Materials</i> , 2021 , 279, 122428	6.7	21
39	Error Analysis and Correction for Quantitative Phase Analysis Based on Rietveld-Internal Standard Method: Whether the Minor Phases Can Be Ignored?. <i>Crystals</i> , 2018 , 8, 110	2.3	20
38	In situ synchrotron powder diffraction study of active belite clinkers. <i>Journal of Applied Crystallography</i> , 2007 , 40, 999-1007	3.8	19
37	Effect of microencapsulated phase change materials on the flow behavior of cement composites. <i>Construction and Building Materials</i> , 2019 , 202, 353-362	6.7	17
36	Rietveld Quantitative Analysis of Buen Retiro Porcelains. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 449-454	3.8	17
35	Rietveld quantitative phase analyses of SRM 2686a: A standard Portland clinker. <i>Cement and Concrete Research</i> , 2019 , 115, 361-366	10.3	17
34	Synchrotron Radiation Pair Distribution Function Analysis of Gels in Cements. <i>Crystals</i> , 2017 , 7, 317	2.3	15
33	Oxide and proton conductivity in aluminum-doped tricalcium oxy-silicate. <i>Solid State Ionics</i> , 2007 , 178, 1073-1080	3.3	15
32	Assessment of the quantitative accuracy of Rietveld/XRD analysis of crystalline and amorphous phases in fly ash. <i>Analytical Methods</i> , 2017 , 9, 2415-2424	3.2	14

31	Hydration development and thermal performance of calcium sulphoaluminate cements containing microencapsulated phase change materials. <i>Cement and Concrete Research</i> , 2020 , 132, 106039	10.3	14
30	Clāqueres Portland Belāicos. Sāntesis y Anālisis Mineralōgico. <i>Boletín De La Sociedad Espanola De Ceramīca Y Vidrio</i> , 2005 , 44, 185-191	1.9	14
29	Amorphous determination in calcium sulfoaluminate materials by external and internal methods. <i>Advances in Cement Research</i> , 2015 , 27, 417-423	1.8	11
28	High-resolution synchrotron powder diffraction analysis of ordinary Portland cements: Phase coexistence of alite. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 238, 87-91	1.2	11
27	Alite sulfoaluminate clinker: Rietveld mineralogical and SEM-EDX analysis. <i>Advances in Cement Research</i> , 2014 , 26, 10-20	1.8	10
26	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	10.3	10
25	Strontium and cobalt doped-lanthanum chromite: Characterisation of synthesised powders and sintered materials. <i>Ceramics International</i> , 2015 , 41, 1177-1187	5.1	9
24	The effects of MgO, Na ₂ O and SO ₃ on industrial clinkering process: phase composition, polymorphism, microstructure and hydration, using a multidisciplinary approach. <i>Materials Characterization</i> , 2019 , 155, 109809	3.9	9
23	Quantitative disentanglement of nanocrystalline phases in cement pastes by synchrotron ptychographic X-ray tomography. <i>IUCrJ</i> , 2019 , 6, 473-491	4.7	9
22	A new family of oxide ion conductors based on tricalcium oxy-silicate. <i>Dalton Transactions</i> , 2006 , 2691-7	4.3	8
21	Processing and characterisation of standard and doped alite-belite-ye'elimitite ecocement pastes and mortars. <i>Cement and Concrete Research</i> , 2020 , 127, 105911	10.3	7
20	Influence of fly ash blending on hydration and physical behavior of belite-alite-ye'elimitite cements. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018 , 51, 1	3.4	7
19	Experimental and theoretical high pressure study of calcium hydroxyaluminate phases. <i>Cement and Concrete Research</i> , 2017 , 97, 1-10	10.3	6
18	Preparation of photocatalytic TiO ₂ coatings by gel-dipping with polysaccharides. <i>Ceramics International</i> , 2012 , 38, 6531-6540	5.1	6
17	Influence of curing temperature on belite cement hydration: A comparative study with Portland cement. <i>Cement and Concrete Research</i> , 2021 , 147, 106499	10.3	6
16	Rietveld quantitative phase analysis with molybdenum radiation. <i>Powder Diffraction</i> , 2015 , 30, 25-35	1.8	5
15	Synchrotron pair distribution function analyses of ye'elimitite-based pastes. <i>Advances in Cement Research</i> , 2019 , 31, 138-146	1.8	5
14	Effect of substitution of lime stone in CPJ45 by Jorf Lasfer fly and bottom ash on the hydration of cement and on the mechanical proprieties of mortar. <i>MATEC Web of Conferences</i> , 2014 , 11, 01046	0.3	3

13	Ceramic Pigments and the European REACH Legislation: Black Fe ₂ O ₃ /Cr ₂ O ₃ , a Case Study. <i>International Journal of Applied Ceramic Technology</i> , 2011 , 8, 905-910	2	3
12	High-pressure and -temperature spinning capillary cell for in situ synchrotron X-ray powder diffraction. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1238-1244	2.4	3
11	Belite hydration at high temperature and pressure by in situ synchrotron powder diffraction. <i>Construction and Building Materials</i> , 2020 , 262, 120825	6.7	3
10	A Comparative Study of Experimental Configurations in Synchrotron Pair Distribution Function. <i>Materials</i> , 2019 , 12,	3.5	2
9	Hydration Activation of Alite-Belite-Yeβlimate Cements by Doping with Boron. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3583-3590	8.3	2
8	Rietveld Quantitative Phase Analysis of Oil Well Cement: In Situ Hydration Study at 150 Bars and 150 °C. <i>Materials</i> , 2019 , 12,	3.5	2
7	1. Diffraction and crystallography applied to anhydrous cements 2017 , 3-30		2
6	Powder diffraction analysis of gemstone inclusions. <i>Powder Diffraction</i> , 2011 , 26, 48-52	1.8	2
5	Preparaci3n y caracterizaci3n de cementos bel3ticos blancos activados con dopantes alcalinos. <i>Materiales De Construccion</i> , 2009 , 59, 19-29	1.8	1
4	The role of sodium and sulfate sources on the rheology and hydration of C3A polymorphs. <i>Cement and Concrete Research</i> , 2022 , 151, 106639	10.3	1
3	X-ray Total Scattering Study of Phases Formed from Cement Phases Carbonation. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 519	2.4	1
2	Portland and Belite Cement Hydration Acceleration by C-S-H Seeds with Variable w/c Ratios. <i>Materials</i> , 2022 , 15, 3553	3.5	1
1	Hydration of C3S and Al-doped C3S in the presence of gypsum. <i>Cement and Concrete Research</i> , 2022 , 152, 106686	10.3	0