

Andre Nonat

List of Publications by Year in descending order

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57
papers

6,707
citations

116194

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58
all docs

58
docs citations

58
times ranked

4349
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of nucleation and growth processes of ettringite in diluted conditions. Cement and Concrete Research, 2020, 127, 105915.	4.6	26
2	Natural fluorapatite as a raw material for Portland clinker. Cement and Concrete Research, 2018, 105, 72-80.	4.6	26
3	Rate-limiting reaction of C 3 S hydration - A reply to the discussion "A new view on the kinetics of tricalcium silicate hydration" by E. Gartner. Cement and Concrete Research, 2018, 104, 118-122.	4.6	14
4	Experimental study and numerical simulation of the dissolution anisotropy of tricalcium silicate. Chemical Geology, 2018, 497, 64-73.	1.4	26
5	Effects of hexitols on the hydration of tricalcium silicate. Cement and Concrete Research, 2017, 91, 87-96.	4.6	11
6	Mesocrystalline calcium silicate hydrate: A bioinspired route toward elastic concrete materials. Science Advances, 2017, 3, e1701216.	4.7	96
7	Revised Atomistic Models of the Crystal Structure of C-S-H with high C/S Ratio. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1411-1424.	1.4	22
8	Interactions between calcium silicate hydrate (C-S-H) and calcium chloride, bromide and nitrate. Cement and Concrete Research, 2016, 90, 89-96.	4.6	89
9	Ionic complexation and adsorption of small organic molecules on calcium silicate hydrate: Relation with their retarding effect on the hydration of C3S. Cement and Concrete Research, 2016, 89, 97-108.	4.6	44
10	Impacts of hexitols on the hydration of a tricalcium aluminate-calcium sulfate mixture. Cement and Concrete Research, 2016, 89, 177-186.	4.6	8
11	Retarding effectiveness of hexitols on the hydration of the silicate phases of cement: Interaction with the aluminate and sulfate phases. Cement and Concrete Research, 2016, 90, 137-143.	4.6	14
12	Effects of functionality and stereochemistry of small organic molecules on the hydration of tricalcium silicate. Cement and Concrete Research, 2016, 87, 97-104.	4.6	37
13	Fluidizing efficiency of comb-like superplasticizers: The effect of the anionic function, the side chain length and the grafting degree. Cement and Concrete Research, 2015, 71, 115-123.	4.6	79
14	Modification of the rate of formation and surface area of ettringite by polycarboxylate ether superplasticizers during early C3A-CaSO4 hydration. Cement and Concrete Research, 2015, 69, 105-113.	4.6	88
15	Calcium silicate hydrates: Solid and liquid phase composition. Cement and Concrete Research, 2015, 78, 57-70.	4.6	317
16	From C-S-H to A-S-H: Experimental study and thermodynamic modelling. Cement and Concrete Research, 2015, 68, 124-138.	4.6	134
17	Atomistic modeling of crystal structure of Ca 1.67 SiH x. Cement and Concrete Research, 2015, 67, 197-203.	4.6	63
18	Tailoring the anionic function and the side chains of comb-like superplasticizers to improve their adsorption. Cement and Concrete Research, 2015, 67, 21-30.	4.6	134

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19	Identification of Binding Peptides on Calcium Silicate Hydrate: A Novel View on Cement Additives. <i>Advanced Materials</i> , 2014, 26, 1135-1140.	11.1	46
20	Surface Relaxivity of Cement Hydrates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8387-8396.	1.5	40
21	Ion-specific effects influencing the dissolution of tricalcium silicate. <i>Cement and Concrete Research</i> , 2014, 59, 118-138.	4.6	179
22	Stability of Negatively Charged Platelets in Calcium-Rich Anionic Copolymer Solutions. <i>Langmuir</i> , 2014, 30, 6713-6720.	1.6	22
23	²⁷ Al and ²⁹ Si Solid-State NMR Characterization of Calcium-Aluminosilicate-Hydrate. <i>Inorganic Chemistry</i> , 2012, 51, 1827-1836.	1.9	234
24	A reply to the discussion "Accelerated growth of calcium silicate hydrates: Experiments and simulations" by S. Bishnoi and K. Scrivener. <i>Cement and Concrete Research</i> , 2012, 42, 881-887.	4.6	7
25	Calcium Mediated Polyelectrolyte Adsorption on Like-Charged Surfaces. <i>Langmuir</i> , 2011, 27, 13572-13581.	1.6	62
26	Mechanisms of cement hydration. <i>Cement and Concrete Research</i> , 2011, 41, 1208-1223.	4.6	1,446
27	C-S-H/solution interface: Experimental and Monte Carlo studies. <i>Cement and Concrete Research</i> , 2011, 41, 161-168.	4.6	103
28	Hydration of cementitious materials, present and future. <i>Cement and Concrete Research</i> , 2011, 41, 651-665.	4.6	561
29	Ettringite surface chemistry: Interplay of electrostatic and ion specificity. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 765-770.	5.0	24
30	Engineering Photocatalytic Cements: Understanding TiO ₂ Surface Chemistry to Control and Modulate Photocatalytic Performances. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3360-3369.	1.9	105
31	A new calcium sulfate hemi-hydrate. <i>Dalton Transactions</i> , 2010, 39, 2044.	1.6	21
32	Surface and Intercalation Chemistry of Polycarboxylate Copolymers in Cementitious Systems. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2471-2488.	1.9	95
33	Experimental study of Si ⁴⁺ Al substitution in calcium-silicate-hydrate (C-S-H) prepared under equilibrium conditions. <i>Cement and Concrete Research</i> , 2009, 39, 637-643.	4.6	162
34	Mechanisms and parameters controlling the tricalcium aluminate reactivity in the presence of gypsum. <i>Cement and Concrete Research</i> , 2007, 37, 1418-1426.	4.6	270
35	Experimental and theoretical evidence of overcharging of calcium silicate hydrate. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 303-307.	5.0	94
36	Surface Charge Density and Electrokinetic Potential of Highly Charged Minerals: Experiments and Monte Carlo Simulations on Calcium Silicate Hydrate. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9219-9230.	1.2	136

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37	Formation of the C-S-H Layer during Early Hydration of Tricalcium Silicate Grains with Different Sizes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 270-275.	1.2	98
38	Structural model of gelation processes of a sodium silicate sol destabilized by calcium ions: combination of SAXS and rheological measurements. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 351-354.	1.5	20
39	Nanoscale Experimental Investigation of Particle Interactions at the Origin of the Cohesion of Cement. <i>Langmuir</i> , 2005, 21, 7263-7270.	1.6	162
40	Investigation of the surface structure and elastic properties of calcium silicate hydrates at the nanoscale. <i>Ultramicroscopy</i> , 2004, 100, 331-338.	0.8	113
41	The structure and stoichiometry of C-S-H. <i>Cement and Concrete Research</i> , 2004, 34, 1521-1528.	4.6	448
42	Aggregation Processes and Formation of Silico-calco-alkaline Gels under High Ionic Strength. <i>Journal of Colloid and Interface Science</i> , 2002, 253, 140-149.	5.0	15
43	Hydrated Layer Formation on Tricalcium and Dicalcium Silicate Surfaces: Experimental Study and Numerical Simulations. <i>Langmuir</i> , 2001, 17, 8131-8138.	1.6	209
44	Investigation by atomic force microscopy of forces at the origin of cement cohesion. <i>Ultramicroscopy</i> , 2001, 86, 11-21.	0.8	98
45	Zeta-Potential Study of Calcium Silicate Hydrates Interacting with Alkaline Cations. <i>Journal of Colloid and Interface Science</i> , 2001, 244, 58-65.	5.0	209
46	²⁹ Si NMR and Small-Angle X-ray Scattering Studies of the Effect of Alkaline Ions (Li ⁺ , Na ⁺ , and K ⁺) in Silico-Alkaline Sols. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2091-2099.	1.2	49
47	Aggregation and Gel Formation in Basic Silico-calco-alkaline Solutions Studied: A SAXS, SANS, and ELS Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5775-5781.	1.2	50
48	Electrokinetic Properties which Control the Coagulation of Silicate Cement Suspensions during Early Age Hydration. <i>Journal of Colloid and Interface Science</i> , 1998, 202, 261-268.	5.0	145
49	Observation directe de la croissance d'hydrosilicate de calcium sur des surfaces d'alit et de silice par microscopie à force atomique. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1998, 327, 231-236.	0.2	4
50	NMR and Infrared Spectroscopies of C-S-H and Al-Substituted C-S-H Synthesised in Alkaline Solutions. , 1998, , 189-196.		9
51	C-S-H Structure Evolution with Calcium Content by Multinuclear NMR. , 1998, , 119-141.		37
52	The Structure, Stoichiometry and Properties of C-S-H Prepared by C3S Hydration Under Controlled Condition. , 1998, , 197-207.		29
53	Du gâchage à l'état durci, ce sont les mêmes liaisons qui sont à l'œuvre. <i>Revue Européenne De Génie Civil</i> , 1998, 2, 759-765.	0.0	2
54	Kinetics of Tricalcium Silicate Hydration in Diluted Suspensions by Microcalorimetric Measurements. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3319-3322.	1.9	82

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55	Lithium iodate: Phase transitions revisited. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1987, 144, 277-291.	0.9	12
56	Determination of the equilibrium molecular structure of inverting molecules by microwave spectroscopy: Application to aniline. <i>Journal of Molecular Spectroscopy</i> , 1986, 118, 180-188.	0.4	51
57	Microwave substitution structure of the amine group in meta-chloroaniline C ₆ H ₄ CINH ₂ . <i>Journal of Molecular Spectroscopy</i> , 1983, 99, 407-414.	0.4	14