Gwenn Le Saout

List of Publications by Citations

50 papers	5,016 citations	30 h-index	52 g-index
52 ext. papers	5,992 ext. citations	6.6 avg, IF	5.62 L-index

#	Paper	IF	Citations
50	Influence of limestone on the hydration of Portland cements. *Cement and Concrete Research*, **2008**, 38, 848-860	10.3	782
49	Hydration mechanisms of ternary Portland cements containing limestone powder and fly ash. *Cement and Concrete Research*, **2011**, 41, 279-291	10.3	599
48	Influence of activator type on hydration kinetics, hydrate assemblage and microstructural development of alkali activated blast-furnace slags. *Cement and Concrete Research*, **2011**, 41, 301-310	10.3	489
47	Influence of slag chemistry on the hydration of alkali-activated blast-furnace slag Part I: Effect of MgO. *Cement and Concrete Research*, **2011**, 41, 955-963	10.3	363
46	Influence of slag chemistry on the hydration of alkali-activated blast-furnace slag Part II: Effect of Al2O3. *Cement and Concrete Research*, **2012**, 42, 74-83	10.3	283
45	Impact of chloride on the mineralogy of hydrated Portland cement systems. *Cement and Concrete Research*, **2010**, 40, 1009-1022	10.3	249
44	Incorporation of aluminium in calcium-silicate-hydrates. *Cement and Concrete Research*, **2015**, 75, 91-103	10.3	193
43	Influence of limestone and anhydrite on the hydration of Portland cements. *Cement and Concrete Composites*, **2014**, 46, 99-108	8.6	188
42	Application of the Rietveld method to the analysis of anhydrous cement. *Cement and Concrete Research*, **2011**, 41, 133-148	10.3	138
41	Hydration of Portland cement with additions of calcium sulfoaluminates. *Cement and Concrete Research*, **2013**, 43, 81-94	10.3	137
40	Hydration of a low-alkali CEM III/B SiO2 cement (LAC). *Cement and Concrete Research*, **2012**, 42, 410-423	10.3	113
39	The origin of early age expansions induced in cementitious materials containing shrinkage reducing admixtures. *Cement and Concrete Research*, **2011**, 41, 218-229	10.3	110
38	Alkali Silica Reaction: the Influence of Calcium on Silica Dissolution and the Formation of Reaction Products. *Journal of the American Ceramic Society*, **2011**, 94, 1243-1249	3.8	103
37	Raman and infrared study of (PbO)x(P2O5)(1 x) glasses. *Journal of Raman Spectroscopy*, **2002**, 33, 740-746	2.3	97
36	Hydration Degree of Alkali-Activated Slags: A 29Si NMR Study. *Journal of the American Ceramic Society*, **2011**, 94, 4541-4547	3.8	89
35	Influence of the calcium sulphate source on the hydration mechanism of Portland cement calcium sulphoaluminate clinker calcium sulphate binders. *Cement and Concrete Composites*, **2011**, 33, 551-561	8.6	88
34	Immobilization of metal hexacyanoferrates in chitin beads for cesium sorption: synthesis and characterization. *Journal of Materials Chemistry A*, **2014**, 2, 10007	13	83

33	Iron in carbonate containing AFm phases. *Cement and Concrete Research*, **2011**, 41, 311-323	10.3	82
32	Chemical structure of cement aged at normal and elevated temperatures and pressures. *Cement and Concrete Research*, **2006**, 36, 71-78	10.3	76
31	Through-bond phosphorus-phosphorus connectivities in crystalline and disordered phosphates by solid-state NMR. *Chemical Communications*, **2002**, 1702-3	5.8	58
30	Improved quantification of alite and belite in anhydrous Portland cements by (29)Si MAS NMR: effects of paramagnetic ions. *Solid State Nuclear Magnetic Resonance*, **2009**, 36, 32-44	3.1	57
29	The effect of temperature on the hydration of composite cements containing limestone powder and fly ash. *Materials and Structures/Materiaux Et Constructions*, **2012**, 45, 1101-1114	3.4	54
28	Chemical structure of cement aged at normal and elevated temperatures and pressures, Part II: Low permeability class G oilwell cement. *Cement and Concrete Research*, **2006**, 36, 428-433	10.3	48
27	The effect of chemical composition on the leaching behaviour of electric arc furnace (EAF) carbon steel slag during a standard leaching test. *Journal of Environmental Chemical Engineering*, **2016**, 4, 1050-1060	6.8	42
26	Solid solutions between CrO4- and SO4-ettringite Ca6(Al(OH)6)2[(CrO4)x(SO4)(1-x)]3*26 H2O. *Environmental Science & Technology*, **2010**, 44, 8983-8	10.3	41
25	The efficiency of quartz addition on electric arc furnace (EAF) carbon steel slag stability. *Journal of Hazardous Materials*, **2014**, 279, 586-96	12.8	40
24	Mitigation of ASR by the use of LiNO3□Characterization of the reaction products. *Cement and Concrete Research*, **2014**, 59, 73-86	10.3	39
23	The influence of sodium and potassium hydroxide on volume changes in cementitious materials. *Cement and Concrete Research*, **2012**, 42, 1447-1455	10.3	38
22	Influence of slag composition on the hydration of alkali-activated slags. *Journal of Sustainable Cement-Based Materials*, **2015**, 4, 85-100	3.6	36
21	Elucidating the Role of the Aluminous Source on Limestone Reactivity in Cementitious Materials. *Journal of the American Ceramic Society*, **2015**, 98, 4076-4089	3.8	36
20	A multispectroscopic study of PbOxZnO0.6□(P2O5)0.4 glasses. *Journal of Non-Crystalline Solids*, **2001**, 293-295, 657-662	3.9	30
19	Fresh behavior of mortar based on recycled sand □Influence of moisture condition. *Construction and Building Materials*, **2016**, 106, 35-42	6.7	29
18	Thermodynamic modeling of solid solutions between monosulfate and monochromate 3CaO □ Al2O3 □Ca[(CrO4)x(SO4)1-x] □nH2O. *Cement and Concrete Research*, **2012**, 42, 158-165	10.3	28
17	Hardened behavior of mortar based on recycled aggregate: Influence of saturation state at macro- and microscopic scales. *Construction and Building Materials*, **2017**, 141, 479-490	6.7	26
16	The effect of microstructure on the leaching behaviour of electric arc furnace (EAF) carbon steel slag. *Chemical Engineering Research and Design*, **2016**, 102, 810-821	5.5	23

15	Study of oilwell cements by solid-state NMR. *Comptes Rendus Chimie*, **2004**, 7, 383-388	2.7	20
14	Durability of Hardened Portland Cement Paste used for Oilwell Cementing. *Oil and Gas Science and Technology*, **2007**, 62, 335-345	1.9	18
13	The influence of slightly and highly soluble carbonate salts on phase relations in hydrated calcium aluminate cements. *Journal of Materials Science*, **2016**, 51, 6062-6074	4.3	14
12	Hydration of calcium aluminate cement blended with anhydrite. *Advances in Cement Research*, **2018**, 30, 24-36	1.8	14
11	Effects of thermal history on mechanical properties of (PbO)x(ZnO)(0.6□)(P2O5)0.4 glasses using Brillouin scattering. *Solid State Communications*, **2002**, 123, 49-54	1.6	13
10	Setting and hardening process of a wollastonite-based brushite cement. *Cement and Concrete Research*, **2018**, 106, 65-76	10.3	11
9	Raman and infrared structural investigation of (PbO)x(ZnO)(0.6□)(P2O5)0.4 glasses. *Journal of Raman Spectroscopy*, **2009**, 40, 522-526	2.3	10
8	Influence of triethanolamine on cement pastes at early age of hydration. *Advances in Cement Research*, **2018**, 30, 159-171	1.8	9
7	The Influence of Metakaolin on Limestone Reactivity in Cementitious Materials. *RILEM Bookseries*, **2015**, 11-19	0.5	5
6	Understanding the setting and hardening process of wollastonite-based brushite cement. Part 1: Influence of the Ca/P ratio and H3PO4 concentration of the mixing solution. *Cement and Concrete Research*, **2020**, 134, 106094	10.3	4
5	Effects of Basicity and Mesh on Cr Leaching of EAF Carbon Steel Slag. *Applied Sciences (Switzerland)*, **2019**, 9, 121	2.6	3
4	Micropore size analysis in oil-well cement by proton nuclear relaxation. *Magnetic Resonance Imaging*, **2005**, 23, 371-3	3.3	3
3	Tectonic and climate control on allochthonous bauxite deposition. Example from the mid-Cretaceous Villeveyrac basin, southern France. *Sedimentary Geology*, **2020**, 407, 105727	2.8	2
2	Understanding the setting and hardening process of wollastonite-based brushite cement. Part 2: Influence of the boron and aluminum concentrations in the mixing solution. *Cement and Concrete Research*, **2021**, 140, 106288	10.3	2
1	Hydration of a calcium sulfoaluminate cement blended with zincite. *Advances in Cement Research*, **2021**, 33, 183-191	1.8	