StÃ©phane Poyet

List of Publications by Year
in descending order

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42 papers	1,266 citations	471371 17 h-index	360920 35 g-index
42 all docs	42 docs citations	42 times ranked	942 citing authors

#	Article	IF	Citations
1	Carbonation of model cement pastes: The mineralogical origin of microstructural changes and shrinkage. Cement and Concrete Research, 2021, 144, 106446.	4.6	38
2	A simple method to measure the isosteric energy of adsorption. Cement and Concrete Research, 2021, 147, 106520.	4.6	4
3	Water transport properties of virtual fractal porous media: Implications for the unsaturated transport properties of cement-based materials. Cement and Concrete Research, 2021, 150, 106613.	4.6	9
4	Data-Based Modeling of Early-Age Concrete Mechanical Behavior for Structural Calculation. Journal of Materials in Civil Engineering, 2020, 32, 04019370.	1.3	2
5	Model synthetic pastes for low pH cements. Cement and Concrete Research, 2020, 136, 106168.	4.6	6
6	Predicting the atmospheric carbonation of cementitious materials using fully coupled two-phase reactive transport modelling. Cement and Concrete Research, 2020, 130, 105966.	4.6	16
7	The link between gas diffusion and carbonation in hardened cement pastes. Cement and Concrete Research, 2019, 123, 105795.	4.6	35
8	Analysis of water transport in unsaturated conditions: Comparison between labcrete and fieldcrete. Construction and Building Materials, 2019, 205, 443-455.	3.2	5
9	Carbonation of hardened cement pastes: Influence of temperature. Cement and Concrete Research, 2019, 115, 445-459.	4.6	106
10	Comparison between natural and accelerated carbonation (3% CO2): Impact on mineralogy, microstructure, water retention and cracking. Cement and Concrete Research, 2018, 109, 64-80.	4.6	151
11	Sr immobilization in irradiated Portland cement paste exposed to carbonation. Cement and Concrete Research, 2018, 107, 152-162.	4.6	10
12	Relation between crack opening and extent of the damage induced at the steel/mortar interface. Construction and Building Materials, 2018, 193, 97-104.	3.2	6
13	Effect of crack openings on carbonation-induced corrosion. Cement and Concrete Research, 2017, 95, 257-269.	4.6	51
14	Effect of accelerated carbonation conditions on the characterization of load-induced damage in reinforced concrete members. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	7
15	Microstructure and diffusion coefficient of an old corrosion product layer and impact on steel rebar corrosion in carbonated concrete. Corrosion Science, 2017, 125, 48-58.	3.0	18
16	Carbonation of low-alkalinity mortars: Influence on corrosion of steel and on mortar microstructure. Cement and Concrete Research, 2017, 101, 33-45.	4.6	23
17	Describing the influence of temperature on water retention using van Genuchten equation. Cement and Concrete Research, 2016, 84, 41-47.	4.6	16
18	Modeling hydration kinetics based on boundary nucleation and space-filling growth in a fixed confined zone. Cement and Concrete Research, 2016, 83, 31-44.	4.6	30

#	Article	IF	Citations
19	The Use of Sorption Balance for the Characterization of the Water Retention Curve of Cement-Based Materials. Journal of Advanced Concrete Technology, 2016, 14, 354-367.	0.8	8
20	Temperature influence on water transport in hardened cement pastes. Cement and Concrete Research, 2015, 76, 37-50.	4.6	56
21	Impact of carbonation on unsaturated water transport properties of cement-based materials. Cement and Concrete Research, 2015, 74, 44-58.	4.6	103
22	Determination of the intrinsic permeability to water of cementitious materials: Influence of the water retention curve. Cement and Concrete Composites, 2013, 35, 127-135.	4.6	19
23	Experimental investigation of the variability of concrete durability properties. Cement and Concrete Research, 2013, 45, 21-36.	4.6	86
24	Modeling of concrete carbonation in deep geological disposal of intermediate level waste. EPJ Web of Conferences, 2013, 56, 05004.	0.1	5
25	Contribution to the French program dedicated to cementitious and clayey materials behavior in the context of Intermediate Level Waste management â€“ Hydrogen transfer and materials durability. EPJ Web of Conferences, 2013, 56, 05001.	0.1	1
26	Impact of carbonation on the durability of cementitious materials: water transport properties characterization. EPJ Web of Conferences, 2013, 56, 01008.	0.1	6
27	Accelerated leaching of cementitious materials using ammonium nitrate (6M): influence of test conditions. European Journal of Environmental and Civil Engineering, 2012, 16, 336-351.	1.0	17
28	Experimental Investigation of Concrete Packages for Radioactive Waste Management: Permeability and Influence of Junctions. Transport in Porous Media, 2012, 95, 55-70.	1.2	5
29	Modelling the influence of temperature on accelerated leaching in ammonium nitrate. European Journal of Environmental and Civil Engineering, 2012, 16, 322-335.	1.0	9
30	Simulations of the thermo-hydro-mechanical behaviour of an annular reinforced concrete structure heated up to 200 Â°C. Engineering Structures, 2012, 36, 302-315.	2.6	11
31	Probabilistic and predictive performance-based approach for assessing reinforced concrete structures lifetime: The applet project. EPJ Web of Conferences, 2011, 12, 01004.	0.1	2
32	Assessment of the unsaturated water transport properties of an old concrete: Determination of the pore-interaction factor. Cement and Concrete Research, 2011, 41, 1015-1023.	4.6	49
33	Visual parameters of chloride-induced corrosion of reinforced concrete structures. European Journal of Environmental and Civil Engineering, 2011, 15, 9-24.	1.0	5
34	Visual parameters of chloride-induced corrosion of reinforced concrete structures. European Journal of Environmental and Civil Engineering, 2011, 15, 9-24.	1.0	2
35	Experimental investigation of the effect of temperature on the first desorption isotherm of concrete. Cement and Concrete Research, 2009, 39, 1052-1059.	4.6	92
36	Temperature dependence of the sorption isotherms of cement-based materials: Heat of sorption and Clausiusâ€“Clapeyron formula. Cement and Concrete Research, 2009, 39, 1060-1067.	4.6	94

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37	Chemical modelling of Alkali Silica reaction: Influence of the reactive aggregate size distribution. Materials and Structures/Materiaux Et Constructions, 2007, 40, 229-239.	1.3	97
38	The Belgian supercontainer concept: Study of the concrete buffer behaviour in service life. European Physical Journal Special Topics, 2006, 136, 167-175.	0.2	1
39	Influence of Water on Alkali-Silica Reaction: Experimental Study and Numerical Simulations. Journal of Materials in Civil Engineering, 2006, 18, 588-596.	1.3	64
40	Etude expÃ©rimentale et modÃ©lisation de l'influence de l'eau sur la rÃ©action alcali-silice. Revue EuropÃ©enne De GÃ©nie Civil, 2004, 8, 345-366.	0.0	0
41	ModÃ©lisation chimique de la rÃ©action alcali-silice: prise en compte de l'influence de la distribution granulaire rÃ©active. Revue EuropÃ©enne De GÃ©nie Civil, 2004, 8, 905-929.	0.0	0
42	Experimental and numerical characterisation of load-induced damage in reinforced concrete members. , 0, , .		1