

Patrick Dangla

List of Publications by Year in descending order

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75
papers

4,256
citations

159585
30
h-index

110387
64
g-index

76
all docs

76
docs citations

76
times ranked

3081
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of heterogeneities of density on the hydromechanical behaviour of pellet-based bentonite materials in imbibition experiments. <i>Applied Clay Science</i> , 2022, 216, 106353.	5.2	2
2	Modeling the sulfate attack induced expansion of cementitious materials based on interface-controlled crystal growth mechanisms. <i>Cement and Concrete Research</i> , 2022, 152, 106676.	11.0	19
3	Investigating the hydromechanical behaviour of bentonite pellets by swelling pressure tests and discrete element modelling. <i>Acta Geotechnica</i> , 2021, 16, 507-524.	5.7	16
4	Modeling transient variations of permeability in coal seams at the reservoir scale. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 88, 103796.	4.4	6
5	Improvement of Recycled Aggregates Properties by Means of CO ₂ Uptake. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6571.	2.5	23
6	Reactive transport modelling of concurrent chloride ingress and carbonation in concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	3.1	8
7	Reactive transport modelling of concrete subject to de-icing salts and atmospheric carbonation. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	3.1	3
8	Modelling the behaviour of bentonite pellet-powder mixtures upon hydration from dry granular state to saturated homogeneous state. <i>Engineering Geology</i> , 2020, 278, 105847.	6.3	15
9	Locating ettringite due to DEF at the pore scale of cement paste by heat-based dissolution tests. <i>Construction and Building Materials</i> , 2020, 258, 120000.	7.2	7
10	Pore size analyses of cement paste exposed to external sulfate attack and delayed ettringite formation. <i>Cement and Concrete Research</i> , 2019, 123, 105766.	11.0	83
11	Interplay between Molecular Diffusion and Advection during Solute Transport in Macroporous Media. <i>Vadose Zone Journal</i> , 2019, 18, 1-15.	2.2	12
12	Modelling of the sulfuric acid attack on different types of cementitious materials. <i>Cement and Concrete Research</i> , 2018, 105, 126-133.	11.0	41
13	Hydro-mechanical behaviour of high-density bentonite pellet on partial hydration. <i>Geotechnique Letters</i> , 2018, 8, 330-335.	1.2	22
14	Permeability changes in coal seams: The role of anisotropy. <i>International Journal of Coal Geology</i> , 2018, 199, 52-64.	5.0	17
15	Impact of cement composition on the adsorption of hydrogen sulphide and its subsequent oxidation onto cementitious material surfaces. <i>Construction and Building Materials</i> , 2017, 152, 576-586.	7.2	17
16	Influence d'une h��t��rog��n��it�� macroporale sur les processus de transport de solut�� dans un milieu poreux: exp��rimentations sur sols mod��les et simulations par la m��thode de Lattice-Boltzmann. <i>Houille Blanche</i> , 2017, 103, 32-38.	0.3	0
17	Thermo��hydro-ionic transport in sea immersed tube tunnel. <i>Tunnelling and Underground Space Technology</i> , 2016, 58, 147-158.	6.2	10
18	Leaching resistance of hazardous waste cement solidification after accelerated carbonation. <i>Cement and Concrete Composites</i> , 2016, 72, 125-132.	10.7	26

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19	Link between microstructure and tritiated water diffusivity in mortars: Impact of aggregates. Cement and Concrete Research, 2016, 82, 92-99.	11.0	19
20	Pore structure of cement pastes through NAD and MIP analysis. Advances in Cement Research, 2016, 28, 23-32.	1.6	39
21	Stress from NaCl crystallisation by carbon dioxide injection in aquifers. Environmental Geotechnics, 2015, 2, 280-291.	2.3	11
22	Thermodynamic of incongruent solubility of C-S-H. Advances in Cement Research, 2015, 27, 601-609.	1.6	4
23	Degradation modeling of concrete submitted to biogenic acid attack. Cement and Concrete Research, 2015, 70, 29-38.	11.0	54
24	Thermodynamic of incongruent solubility of C-S-H. Advances in Cement Research, 2015, 27, 601-609.	1.6	3
25	Experimental investigation of the influence of supercritical state on the relative permeability of Vosges sandstone. Comptes Rendus - Mecanique, 2015, 343, 495-502.	2.1	10
26	Desorption-induced shear failure of coal bed seams during gas depletion. International Journal of Coal Geology, 2015, 137, 142-151.	5.0	85
27	Impact of accelerated carbonation on OPC cement paste blended with fly ash. Cement and Concrete Research, 2015, 67, 226-236.	11.0	188
28	A Thermodynamic Approach to Effective Stresses in Unsaturated Soils Incorporating the Concept of Partial Pore Deformations. Vadose Zone Journal, 2014, 13, 1-11.	2.2	9
29	Measurement and modeling of adsorptive poromechanical properties of bituminous coal cores exposed to CO ₂ : Adsorption, swelling strains, swelling stresses and impact on fracture permeability. International Journal of Coal Geology, 2014, 134-135, 80-95.	5.0	96
30	A poromechanical model for coal seams saturated with binary mixtures of CH ₄ and CO ₂ . Journal of the Mechanics and Physics of Solids, 2014, 71, 97-111.	4.8	37
31	Investigation of the carbonation mechanism of CH and C-S-H in terms of kinetics, microstructure changes and moisture properties. Cement and Concrete Research, 2014, 56, 153-170.	11.0	611
32	Reactive transport modeling of CO ₂ through cementitious materials under CO ₂ geological storage conditions. International Journal of Greenhouse Gas Control, 2013, 18, 75-87.	4.6	42
33	Degradation modelling of concrete submitted to sulfuric acid attack. Cement and Concrete Research, 2013, 53, 267-277.	11.0	99
34	Water Removal by Freeze-Drying of Hardened Cement Paste. Drying Technology, 2013, 31, 67-71.	3.1	19
35	Carbonation kinetics of a bed of recycled concrete aggregates: A laboratory study on model materials. Cement and Concrete Research, 2013, 46, 50-65.	11.0	135
36	Extension of Petersen matrix to the modelling of chemical equilibrium involved in concrete carbonation. European Journal of Environmental and Civil Engineering, 2013, 17, 920-934.	2.1	0

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37	Poromechanics of Salt Nucleation within an Unsaturated Reservoir Rock. , 2013, , .		3
38	Poroelastic Analysis of Partial Freezing in Cohesive Porous Materials. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	22
39	A transverse isotropic model for microporous solids: Application to coal matrix adsorption and swelling. Journal of Geophysical Research: Solid Earth, 2013, 118, 6113-6123.	3.4	64
40	Link between microstructure and tritiated water diffusivity in mortars. EPJ Web of Conferences, 2013, 56, 01006.	0.3	2
41	Dependence on injection temperature and on aquiferâ€™s petrophysical properties of the local stress applying on the pore wall of a crystallized pore in the context of CO ₂ storage in deep saline aquifers. EPJ Applied Physics, 2013, 64, 21101.	0.7	10
42	Analysis of pore structure, contact angle and pore entrapment of blended cement pastes from mercury porosimetry data. Cement and Concrete Composites, 2012, 34, 1053-1060.	10.7	109
43	A Poromechanical Model for Coal Seams Injected with Carbon Dioxide: From an Isotherm of Adsorption to a Swelling of the Reservoir. Oil and Gas Science and Technology, 2012, 67, 777-786.	1.4	27
44	Pore structure characterization of cement pastes blended with high-volume fly-ash. Cement and Concrete Research, 2012, 42, 194-204.	11.0	420
45	Determination of cement hydration and pozzolanic reaction extents for fly-ash cement pastes. Construction and Building Materials, 2012, 27, 560-569.	7.2	209
46	Effect of porosity on thermal expansion coefficient of cement pastes and mortars. Construction and Building Materials, 2012, 28, 468-475.	7.2	80
47	A study of freezing behavior of cementitious materials by poromechanical approach. International Journal of Solids and Structures, 2011, 48, 3267-3273.	2.7	100
48	Surface fractal analysis of pore structure of high-volume fly-ash cement pastes. Applied Surface Science, 2010, 257, 762-768.	6.1	160
49	Penetration of chlorides in hardened concrete during frost salt scaling cycles. EPJ Web of Conferences, 2010, 6, 22017.	0.3	1
50	Assessment and prediction of RC structure service life by means of durability indicators and physical/chemical models. Cement and Concrete Composites, 2009, 31, 522-534.	10.7	64
51	Rebar corrosion in carbonated concrete exposed to variable humidity conditions. Interpretation of Tuuttiâ€™s curve. Corrosion Science, 2009, 51, 1747-1756.	6.6	29
52	Modelling of coupled ion and moisture transport in porous building materials. Construction and Building Materials, 2008, 22, 2185-2195.	7.2	55
53	Sound propagation above a porous road surface with extended reaction by boundary element method. Journal of the Acoustical Society of America, 2007, 122, 731-736.	1.1	8
54	Investigation of the carbonation front shape on cementitious materials: Effects of the chemical kinetics. Cement and Concrete Research, 2007, 37, 1047-1058.	11.0	465

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55	Study of the water budget of streets: experimentation and modelling. Water Science and Technology, 2006, 54, 41-48.	2.5	12
56	Modelling the influence of ionic and fluid transport on rebars corrosion in unsaturated cement systems. European Physical Journal Special Topics, 2006, 136, 131-140.	0.2	1
57	Seismic Site-City Interaction: Main Governing Phenomena through Simplified Numerical Models. Bulletin of the Seismological Society of America, 2006, 96, 1934-1951.	2.3	122
58	Sound Propagation above a Porous Road Surface by Boundary Element Method. Road Materials and Pavement Design, 2006, 7, 289-312.	4.0	6
59	Prediction of chloride ingress into saturated concrete on the basis of a multi-species model by numerical calculations. Computers and Concrete, 2006, 3, 401-422.	0.7	26
60	Sound Propagation above a Porous Road Surface by Boundary Element Method. Road Materials and Pavement Design, 2006, 7, 289-312.	4.0	0
61	Evaluation of a thermal criterion for an engineered barrier system. Engineering Geology, 2005, 81, 269-283.	6.3	33
62	Adaptation of existing behaviour models to unsaturated states: application to CJS model. International Journal for Numerical and Analytical Methods in Geomechanics, 2005, 29, 1127-1155.	3.3	57
63	Role of pH in Electro-Osmosis: Experimental Study on NaClâ€œWater Saturated Kaolinite. Transport in Porous Media, 2005, 61, 93-107.	2.6	34
64	A Simple and Efficient Regularization Method for 3D BEM: Application to Frequency-Domain Elastodynamics. Bulletin of the Seismological Society of America, 2005, 95, 1916-1927.	2.3	24
65	The equivalent pore pressure and the swelling and shrinkage of cement-based materials. Materials and Structures/Materiaux Et Constructions, 2004, 37, 15-20.	3.1	94
66	Modelling of pH-dependent electro-osmotic flows. Comptes Rendus - Mecanique, 2004, 332, 915-920.	2.1	8
67	Modal Superposition Method for the Analysis of Seismic-Wave Amplification. Bulletin of the Seismological Society of America, 2003, 93, 1144-1153.	2.3	5
68	Seismic site effects in a deep alluvial basin: numerical analysis by the boundary element method. Computers and Geotechnics, 2002, 29, 573-585.	4.7	43
69	Seismic site effects for shallow and deep alluvial basins: in-depth motion and focusing effect. Soil Dynamics and Earthquake Engineering, 2002, 22, 849-854.	3.8	37
70	Evaluation de la perméabilité à l'eau liquide des bâtons à partir de leur perte de masse durant le séchage. Revue Européenne De Génie Civil, 2001, 5, 269-284.	0.0	11
71	Numerical analysis of seismic wave amplification in Nice (France) and comparisons with experiments. Soil Dynamics and Earthquake Engineering, 2000, 19, 347-362.	3.8	83
72	A two-scale modelling of a swelling clay. European Physical Journal Special Topics, 1999, 09, Pr9-21-Pr9-31.	0.2	2

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73	A vanishing diffusion process in unsaturated soils. International Journal of Non-Linear Mechanics, 1998, 33, 1027-1037.	2.6	8
74	A plane strain soil-structure interaction model. Earthquake Engineering and Structural Dynamics, 1988, 16, 1115-1128.	4.4	28
75	Accelerated Biodeterioration Test for the Study of Cementitious Materials in Sewer Networks: Experimental and Modeling. Key Engineering Materials, 0, 711, 1069-1075.	0.4	3