

Vincent Picandet

List of Publications by Year in descending order

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41
papers

1,407
citations

394421

19
h-index

330143

37
g-index

44
all docs

44
docs citations

44
times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	Crack effects on gas and water permeability of concretes. Cement and Concrete Research, 2009, 39, 537-547.	11.0	197
2	Effect of axial compressive damage on gas permeability of ordinary and high-performance concrete. Cement and Concrete Research, 2001, 31, 1525-1532.	11.0	186
3	Prediction of lateral form pressure exerted by concrete at low casting rates. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2315-2322.	3.1	101
4	Effect of compaction on mechanical and thermal properties of hemp concrete. European Journal of Environmental and Civil Engineering, 2010, 14, 545-560.	2.1	92
5	Influence of compactness and hemp hurd characteristics on the mechanical properties of lime and hemp concrete. European Journal of Environmental and Civil Engineering, 2009, 13, 1039-1050.	2.1	88
6	Recommendation of the RILEM TC 236-BBM: characterisation testing of hemp shiv to determine the initial water content, water absorption, dry density, particle size distribution and thermal conductivity. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	88
7	Underwater 3D printing of cement-based mortar. Construction and Building Materials, 2019, 214, 458-467.	7.2	64
8	Permeability measurement of fresh cement paste. Cement and Concrete Research, 2011, 41, 330-338.	11.0	55
9	A nonlocal Fourier's law and its application to the heat conduction of one-dimensional and two-dimensional thermal lattices. Comptes Rendus - Mecanique, 2016, 344, 388-401.	2.1	55
10	Coupling between progressive damage and permeability of concrete: analysis with a discrete model. International Journal for Numerical and Analytical Methods in Geomechanics, 2005, 29, 1005-1018.	3.3	49
11	Variability of the mechanical properties of hemp concrete. Materials Today Communications, 2016, 7, 122-133.	1.9	47
12	Study of lime hemp concrete (LHC) " Mix design, casting process and mechanical behaviour. Cement and Concrete Composites, 2016, 67, 60-72.	10.7	45
13	Cement-based mixes: Shearing properties and pore pressure. Cement and Concrete Research, 2012, 42, 139-147.	11.0	42
14	Cellulose ethers and cement paste permeability. Cement and Concrete Research, 2015, 72, 117-127.	11.0	37
15	Hydro-mechanical properties of fresh cement pastes containing polycarboxylate superplasticizer. Cement and Concrete Research, 2013, 53, 221-228.	11.0	29
16	Study of lime hemp composite precasting by compaction of fresh mix " An instrumented die to measure friction and stress state. Powder Technology, 2014, 258, 285-296.	4.2	29
17	Revisiting finite difference and finite element methods applied to structural mechanics within enriched continua. European Journal of Mechanics, A/Solids, 2015, 53, 107-120.	3.7	29
18	Measurement of yield stress for concentrated suspensions using a plate device. Materials and Structures/Materiaux Et Constructions, 2010, 43, 47-62.	3.1	27

#	ARTICLE	IF	CITATIONS
19	Assessment of asymmetrical rheological behavior of cementitious material for 3D printing application. <i>Cement and Concrete Research</i> , 2021, 140, 106305.	11.0	24
20	Effect of coarse particle volume fraction on the hydraulic conductivity of fresh cement based material. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 2291-2297.	3.1	17
21	On Nonlocal Computation of Eigenfrequencies of Beams Using Finite Difference and Finite Element Methods. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1540008.	2.4	15
22	From discrete to nonlocal continuum damage mechanics: Analysis of a lattice system in bending using a continualized approach. <i>International Journal of Damage Mechanics</i> , 2015, 24, 983-1012.	4.2	12
23	Determination of the consolidation coefficient of low compressibility materials: application to fresh cement-based materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 1475-1483.	3.1	11
24	On the failure of a discrete axial chain using a continualized nonlocal Continuum Damage Mechanics approach. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 436-466.	3.3	7
25	Effect of compaction on mechanical and thermal properties of hemp concrete. <i>European Journal of Environmental and Civil Engineering</i> , 2010, 14, 545-560.	2.1	7
26	Compared imbibitions of ordinary and high performance concrete with null or positive water pressure head. <i>Cement and Concrete Research</i> , 2008, 38, 772-782.	11.0	6
27	Poiseuille flow of nonlocal microstructured fluid. <i>Mechanics Research Communications</i> , 2014, 59, 51-57.	1.8	6
28	Nonlocal continuum analysis of a nonlinear uniaxial elastic lattice system under non-uniform axial load. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 83, 378-388.	2.7	6
29	(Semi-)analytical solution of Luikov equations for time-periodic boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 533-542.	4.8	5
30	Gravity Driven Tests to Assess Mechanical Properties of Printable Cement-Based Materials at Fresh State. <i>RILEM Bookseries</i> , 2020, , 280-289.	0.4	5
31	Buckling and post-buckling of gradient and nonlocal plasticity columns experiencing softening. <i>International Journal of Solids and Structures</i> , 2014, 51, 4052-4067.	2.7	3
32	Particle Size Distribution. <i>RILEM State-of-the-Art Reports</i> , 2017, , 91-110.	0.7	3
33	Nonlocal thermal diffusion in one-dimensional periodic lattice. <i>International Journal of Heat and Mass Transfer</i> , 2021, 180, 121753.	4.8	3
34	Optimisation de l'usage du bton de chanvre dans la conception d'un comatriau pour le gnie civil. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2008, 18, 227-232.	0.6	3
35	Bending of an elastoplastic Hencky bar-chain: from discrete to nonlocal continuous beam models. <i>Meccanica</i> , 2018, 53, 3083-3104.	2.0	2
36	Bulk Density and Compressibility. <i>RILEM State-of-the-Art Reports</i> , 2017, , 111-124.	0.7	2

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37	A localization analysis of a non-uniform damage lattice in presence of strength gradient. <i>International Journal of Fracture</i> , 2018, 210, 29-43.	2.2	1
38	Two-scale nonlocal shear rate formulation of Bingham plastic fluid. <i>Applied Mathematical Modelling</i> , 2015, 39, 4075-4094.	4.2	0
39	Nonlocal Continuum Damage Mechanics Approach of a Discrete Axial Chain under Non-Uniform Axial Load. <i>Applied Mechanics and Materials</i> , 2015, 784, 317-324.	0.2	0
40	Scale effects in the static response of a one-dimensional quasi-brittle damage lattice. <i>European Journal of Environmental and Civil Engineering</i> , 2016, 20, 1233-1248.	2.1	0
41	Nonlocality of one-dimensional bilinear hardening-softening elastoplastic axial lattices. <i>Mathematics and Mechanics of Solids</i> , 2020, 25, 475-497.	2.4	0