

Philippe Cosenza

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

690
citations

471477

17
h-index

552766

26
g-index

36
all docs

36
docs citations

36
times ranked

660
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations between geotechnical and electrical data: A case study at Garchy in France. <i>Journal of Applied Geophysics</i> , 2006, 60, 165-178.	2.1	137
2	Effects of Drying on the Low-Frequency Electrical Properties of Tournemire Argillites. <i>Pure and Applied Geophysics</i> , 2007, 164, 2043-2066.	1.9	48
3	Effects of desiccation on the elastic wave velocities of clay-rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009, 46, 1267-1272.	5.8	48
4	A new method for quantitative petrography based on image processing of chemical element maps: Part II. Semi-quantitative porosity maps superimposed on mineral maps. <i>American Mineralogist</i> , 2010, 95, 1389-1398.	1.9	37
5	Investigation of the damage induced by desiccation and heating of Tournemire argillite using digital image correlation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 51, 64-75.	5.8	37
6	One-year monitoring of desiccation cracks in Tournemire argillite using digital image correlation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 68, 22-35.	5.8	37
7	Differential effective medium schemes for investigating the relationship between high-frequency relative dielectric permittivity and water content of soils. <i>Water Resources Research</i> , 2003, 39, .	4.2	36
8	A physical model of the low-frequency electrical polarization of clay rocks. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
9	Effect of the local clay distribution on the effective elastic properties of shales. <i>Mechanics of Materials</i> , 2015, 84, 55-74.	3.2	25
10	Secondary consolidation of clay as an anomalous diffusion process. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1231-1246.	3.3	24
11	Effect of the local clay distribution on the effective electrical conductivity of clay rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 145-168.	3.4	24
12	Numerical modeling of the role of water and clay content in soils' and rocks' bulk electrical conductivity. <i>Journal of Geophysical Research</i> , 2002, 107, ECV 20-1-ECV 20-9.	3.3	21
13	Numerical modeling for investigating the physical meaning of the relationship between relative dielectric permittivity and water content of soils. <i>Water Resources Research</i> , 2000, 36, 2771-2776.	4.2	20
14	Multi-scale study on the deformation and fracture evolution of clay rock sample subjected to desiccation. <i>Applied Clay Science</i> , 2016, 132-133, 251-260.	5.2	20
15	Modelling of Maxwell-Wagner induced polarisation amplitude for clayey materials. <i>Journal of Applied Geophysics</i> , 2009, 67, 109-113.	2.1	19
16	Accounting for Small-Scale Heterogeneity and Variability of Clay Rock in Homogenised Numerical Micromechanical Response and Microcracking. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 2727-2746.	5.4	19
17	Representative elementary area of shale at the mesoscopic scale. <i>International Journal of Coal Geology</i> , 2019, 216, 103316.	5.0	17
18	Measurement of the elastic properties of swelling clay minerals using the digital image correlation method on a single macroscopic crystal. <i>Applied Clay Science</i> , 2015, 116-117, 248-256.	5.2	16

#	ARTICLE	IF	CITATIONS
19	Indirect estimation of the clay content of clay-rocks using acoustic measurements: New insights from the Montiers-sur-Saulx deep borehole (Meuse, France). <i>Marine and Petroleum Geology</i> , 2014, 53, 117-132.	3.3	13

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