Alessio Ferrari

List of Publications by Year
in descending order

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		279798	289244
61	1,727	23	40
papers	citations	h-index	g-index

65	65	65	1327
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental investigations of the soilâ€“concrete interface: physical mechanisms, cyclic mobilization, and behaviour at different temperatures. Canadian Geotechnical Journal, 2016, 53, 659-672.	2.8	143
2	Water retention behaviour and microstructural evolution of MX-80 bentonite during wetting and drying cycles. Geotechnique, 2014, 64, 721-734.	4.0	141
3	Investigation into water retention behaviour of deformable soils. Canadian Geotechnical Journal, 2013, 50, 200-208.	2.8	112
4	Monitoring and prediction in early warning systems for rapid mass movements. Natural Hazards and Earth System Sciences, 2015, 15, 905-917.	3.6	107
5	Modelling landslides in unsaturated slopes subjected to rainfall infiltration using material point method. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1358-1380.	3.3	101
6	Experimental analysis of the water retention behaviour of shales. International Journal of Rock Mechanics and Minings Sciences, 2014, 72, 61-70.	5.8	92
7	An experimental and constitutive investigation on the chemo-mechanical behaviour of a clay. Geotechnique, 2013, 63, 244-255.	4.0	59
8	Volume change behaviour of a compacted scaly clay during cyclic suction changes. Canadian Geotechnical Journal, 2010, 47, 688-703.	2.8	58
9	On the reactivation of a large landslide induced by rainfall in highly fissured clays. Engineering Geology, 2018, 235, 20-38.	6.3	52
10	Anisotropic Behaviour of Opalinus Clay Through Consolidated and Drained Triaxial Testing in Saturated Conditions. Rock Mechanics and Rock Engineering, 2018, 51, 1305-1319.	5.4	52
11	Thermo-mechanical volume change behaviour of Opalinus Clay. International Journal of Rock Mechanics and Minings Sciences, 2016, 90, 15-25.	5.8	51
12	Fabric evolution and the related swelling behaviour of a sand/bentonite mixture upon hydro-chemo-mechanical loadings. Geotechnique, 2016, 66, 41-57.	4.0	50
13	On the hydro-mechanical behaviour of remoulded and natural Opalinus Clay shale. Engineering Geology, 2016, 208, 128-135.	6.3	48
14	Anisotropic volumetric behaviour of Opalinus clay shale upon suction variation. Geotechnique Letters, 2016, 6, 144-148.	1.2	44
15	One-dimensional compression and consolidation of shales. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 286-300.	5.8	42
16	Early warning thresholds for partially saturated slopes in volcanic ashes. Computers and Geotechnics, 2013, 49, 79-89.	4.7	41
17	Hydro-mechanical behaviour of shallow Opalinus Clay shale. Engineering Geology, 2019, 251, 214-227.	6.3	41
18	A Comparative Study of Soil Suction Measurement Using Two Different High-Range Psychrometers. , 2007, , 79-93.		40

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19	Nonstationary flow surface theory for modeling the viscoplastic behaviors of soils. Computers and Geotechnics, 2016, 76, 105-119.	4.7	32
20	Shear strength of a compacted scaly clay in variable saturation conditions. Acta Geotechnica, 2016, 11, 37-50.	5.7	31
21	Microstructure and shear strength evolution of a lime-treated clay for use in road construction. International Journal of Pavement Engineering, 2020, 21, 1147-1158.	4.4	31
22	Effects of the foot evolution on the behaviour of slow-moving landslides. Engineering Geology, 2011, 117, 217-228.	6.3	30
23	The impact of the volumetric swelling behavior on the water uptake of gas shale. Journal of Natural Gas Science and Engineering, 2018, 49, 132-144.	4.4	26
24	On the hydro-mechanical behaviour of a lime-treated embankment during wetting and drying cycles. Geomechanics for Energy and the Environment, 2018, 14, 48-60.	2.5	25
25	The Pore Structure of Compacted and Partly Saturated MX-80 Bentonite at Different Dry Densities. Clays and Clay Minerals, 2014, 62, 174-187.	1.3	24
26	Hydromechanical behaviour of a volcanic ash. Geotechnique, 2013, 63, 1433-1446.	4.0	23
27	Advances in the Testing of the Hydro-mechanical Behaviour of Shales. Springer Series in Geomechanics and Geoengineering, 2013, , 57-68.	0.1	23
28	Benchmark study of undrained triaxial testing of Opalinus Clay shale: Results and implications for robust testing. Geomechanics for Energy and the Environment, 2021, 25, 100210.	2.5	22
29	Experimental assessment of the hydro-mechanical behaviour of a shale caprock during CO2 injection. International Journal of Greenhouse Gas Control, 2021, 106, 103225.	4.6	18
30	Characterization of gas flow through low-permeability claystone: laboratory experiments and two-phase flow analyses. Geological Society Special Publication, 2014, 400, 531-543.	1.3	17
31	Hydro-mechanical analysis of volcanic ash slopes during rainfall. Geotechnique, 2016, 66, 220-231.	4.0	17
32	Shot-clay MX-80 bentonite: An assessment of the hydro-mechanical behaviour. Engineering Geology, 2014, 173, 10-18.	6.3	15
33	Nonlinear Elastic Response of Partially Saturated Gas Shales in Uniaxial Compression. Rock Mechanics and Rock Engineering, 2018, 51, 1967-1978.	5.4	14
34	Volume change characteristics of fine-grained soils due to sequential thermo-mechanical stresses. Engineering Geology, 2019, 253, 47-54.	6.3	13
35	Coupled hydro-mechanical analysis of compacted bentonite behaviour during hydration. Computers and Geotechnics, 2021, 140, 104447.	4.7	12
36	Gas shales testing in controlled partially saturated conditions. International Journal of Rock Mechanics and Minings Sciences, 2018, 107, 110-119.	5.8	11

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37	Generalized effective stress concept for saturated active clays. Canadian Geotechnical Journal, 2021, 58, 1627-1639.	2.8	10
38	Volume change response and fabric evolution of granular MX80 bentonite along different hydro-mechanical stress paths. Acta Geotechnica, 2022, 17, 3719-3730.	5.7	10
39	Mechanical Behaviour of Compacted Scaly Clay During Cyclic Controlled-Suction Testing. , 2007, , 345-354.		8
40	Effect of the mineralogical composition on the elastoplastic hydromechanical response of Opalinus Clay shale. International Journal of Rock Mechanics and Minings Sciences, 2021, 143, 104747.	5.8	7
41	Life cycle environmental assessment of retaining walls in unsaturated soils. Geomechanics for Energy and the Environment, 2022, 30, 100241.	2.5	4
42	The Role of Anisotropy on the Volumetric Behaviour of Opalinus Clay upon Suction Change. Springer Series in Geomechanics and Geoengineering, 2017, , 315-321.	0.1	3
43	Anisotropic Behaviour of Shallow Opalinus Clay. Springer Series in Geomechanics and Geoengineering, 2019, , 442-448.	0.1	3
44	Displacement Evolution of a Large Landslide in a Highly Fissured Clay. Lecture Notes in Civil Engineering, 2020, , 195-204.	0.4	3
45	One Dimensional Consolidation of Opalinus Clay from Shallow Depth. Springer Series in Geomechanics and Geoengineering, 2017, , 338-344.	0.1	1
46	An experimental investigation on the water retention behaviour of a silty soil for the computation of the lateral earth thrust on a retaining wall. E3S Web of Conferences, 2019, 92, 07011.	0.5	1
47	Water retention behaviour of compacted and reconstituted scaly clays. E3S Web of Conferences, 2020, 195, 03026.	0.5	1
48	Discussion on â€œExperimental Deformation of Opalinus Clay at Elevated Temperature and Pressure Conditions: Mechanical Properties and the Influence of Rock Fabricâ€•of Schuster, V., Rybacki, E., Bonnelye, A., Herrmann, J., Schleicher, A.M., Dresen, G.. Rock Mechanics and Rock Engineering, 0, , 1.	5.4	1
49	Numerical investigation on water exchange of shale samples. E3S Web of Conferences, 2020, 195, 02025.	0.5	1
50	Developing a high capacity axis translation apparatus for gas shale testing. E3S Web of Conferences, 2020, 195, 03020.	0.5	1
51	A coupled hydro â€“ mechanical approach for modelling the volume change behaviour of compacted bentonite. E3S Web of Conferences, 2020, 195, 04006.	0.5	1
52	Role of Stress History on the Swellingâ€“Shrinkage Behavior of Compacted Scaly Clay. International Journal of Geomechanics, 2022, 22, .	2.7	1
53	One-Dimensional Transient Analysis of Rainfall Infiltration in Unsaturated Volcanic Ash. Springer Series in Geomechanics and Geoengineering, 2015, , 107-118.	0.1	0
54	Gas Shale Water Imbibition Tests with Controlled Suction Technique. Springer Series in Geomechanics and Geoengineering, 2019, , 250-257.	0.1	0

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55	The Permeable Concrete: A Low Energy Consumption Solution for Deep Draining Trenches. Springer Series in Geomechanics and Geoengineering, 2019, , 323-330.	0.1	0
56	Yielding of a quartz sand from saturated to dry state. E3S Web of Conferences, 2020, 195, 03038.	0.5	0
57	1D Compression Behaviour of Opalinus Clay. Springer Series in Geomechanics and Geoengineering, 2017, , 322-329.	0.1	0
58	An extended generalized effective stress for active clays. E3S Web of Conferences, 2020, 195, 02004.	0.5	0
59	Effective stress concept for mechanical modeling of clays under different environmental conditions. E3S Web of Conferences, 2020, 205, 13015.	0.5	0
60	Swelling and shrinkage of gas shales due to suction variations. E3S Web of Conferences, 2020, 205, 13004.	0.5	0
61	The impact of the compaction and mineralogical composition on the retention behaviour of Opalinus Clay. E3S Web of Conferences, 2020, 205, 13009.	0.5	0