

Alessio Ferrari

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,727
citations

279798

23
h-index

289244

40
g-index

65
all docs

65
docs citations

65
times ranked

1327
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Life cycle environmental assessment of retaining walls in unsaturated soils. <i>Geomechanics for Energy and the Environment</i> , 2022, 30, 100241. | 2.5 | 4 |
| 2 | Volume change response and fabric evolution of granular MX80 bentonite along different hydro-mechanical stress paths. <i>Acta Geotechnica</i> , 2022, 17, 3719-3730. | 5.7 | 10 |
| 3 | Role of Stress History on the Swelling and Shrinkage Behavior of Compacted Scaly Clay. <i>International Journal of Geomechanics</i> , 2022, 22, . | 2.7 | 1 |
| 4 | Benchmark study of undrained triaxial testing of Opalinus Clay shale: Results and implications for robust testing. <i>Geomechanics for Energy and the Environment</i> , 2021, 25, 100210. | 2.5 | 22 |
| 5 | Experimental assessment of the hydro-mechanical behaviour of a shale caprock during CO2 injection. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103225. | 4.6 | 18 |
| 6 | Effect of the mineralogical composition on the elastoplastic hydromechanical response of Opalinus Clay shale. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 143, 104747. | 5.8 | 7 |
| 7 | Coupled hydro-mechanical analysis of compacted bentonite behaviour during hydration. <i>Computers and Geotechnics</i> , 2021, 140, 104447. | 4.7 | 12 |
| 8 | Generalized effective stress concept for saturated active clays. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1627-1639. | 2.8 | 10 |
| 9 | Microstructure and shear strength evolution of a lime-treated clay for use in road construction. <i>International Journal of Pavement Engineering</i> , 2020, 21, 1147-1158. | 4.4 | 31 |
| 10 | Yielding of a quartz sand from saturated to dry state. <i>E3S Web of Conferences</i> , 2020, 195, 03038. | 0.5 | 0 |
| 11 | Water retention behaviour of compacted and reconstituted scaly clays. <i>E3S Web of Conferences</i> , 2020, 195, 03026. | 0.5 | 1 |
| 12 | Displacement Evolution of a Large Landslide in a Highly Fissured Clay. <i>Lecture Notes in Civil Engineering</i> , 2020, , 195-204. | 0.4 | 3 |
| 13 | Numerical investigation on water exchange of shale samples. <i>E3S Web of Conferences</i> , 2020, 195, 02025. | 0.5 | 1 |
| 14 | Developing a high capacity axis translation apparatus for gas shale testing. <i>E3S Web of Conferences</i> , 2020, 195, 03020. | 0.5 | 1 |
| 15 | A coupled hydro-mechanical approach for modelling the volume change behaviour of compacted bentonite. <i>E3S Web of Conferences</i> , 2020, 195, 04006. | 0.5 | 1 |
| 16 | An extended generalized effective stress for active clays. <i>E3S Web of Conferences</i> , 2020, 195, 02004. | 0.5 | 0 |
| 17 | Effective stress concept for mechanical modeling of clays under different environmental conditions. <i>E3S Web of Conferences</i> , 2020, 205, 13015. | 0.5 | 0 |
| 18 | Swelling and shrinkage of gas shales due to suction variations. <i>E3S Web of Conferences</i> , 2020, 205, 13004. | 0.5 | 0 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Anisotropic Behaviour of Shallow Opalinus Clay. Springer Series in Geomechanics and Geoengineering, 2019, , 442-448. | 0.1 | 3 |
| 21 | Gas Shale Water Imbibition Tests with Controlled Suction Technique. Springer Series in Geomechanics and Geoengineering, 2019, , 250-257. | 0.1 | 0 |
| 22 | 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 |
| 23 | Hydro-mechanical behaviour of shallow Opalinus Clay shale. Engineering Geology, 2019, 251, 214-227. | 6.3 | 41 |
| 24 | Volume change characteristics of fine-grained soils due to sequential thermo-mechanical stresses. Engineering Geology, 2019, 253, 47-54. | 6.3 | 13 |
| 25 | The Permeable Concrete: A Low Energy Consumption Solution for Deep Draining Trenches. Springer Series in Geomechanics and Geoengineering, 2019, , 323-330. | 0.1 | 0 |
| 26 | On the reactivation of a large landslide induced by rainfall in highly fissured clays. Engineering Geology, 2018, 235, 20-38. | 6.3 | 52 |
| 27 | 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 |
| 28 | Nonlinear Elastic Response of Partially Saturated Gas Shales in Uniaxial Compression. Rock Mechanics and Rock Engineering, 2018, 51, 1967-1978. | 5.4 | 14 |
| 29 | 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 |
| 30 | 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 |
| 31 | Gas shales testing in controlled partially saturated conditions. International Journal of Rock Mechanics and Minings Sciences, 2018, 107, 110-119. | 5.8 | 11 |
| 32 | 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 |
| 33 | One Dimensional Consolidation of Opalinus Clay from Shallow Depth. Springer Series in Geomechanics and Geoengineering, 2017, , 338-344. | 0.1 | 1 |
| 34 | 1D Compression Behaviour of Opalinus Clay. Springer Series in Geomechanics and Geoengineering, 2017, , 322-329. | 0.1 | 0 |
| 35 | 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 |
| 36 | On the hydro-mechanical behaviour of remoulded and natural Opalinus Clay shale. Engineering Geology, 2016, 208, 128-135. | 6.3 | 48 |

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|----|--|-----|-----------|
| 37 | Thermo-mechanical volume change behaviour of Opalinus Clay. International Journal of Rock Mechanics and Minings Sciences, 2016, 90, 15-25. | 5.8 | 51 |
| 38 | One-dimensional compression and consolidation of shales. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 286-300. | 5.8 | 42 |
| 39 | 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 |
| 40 | Hydro-mechanical analysis of volcanic ash slopes during rainfall. Geotechnique, 2016, 66, 220-231. | 4.0 | 17 |
| 41 | Anisotropic volumetric behaviour of Opalinus clay shale upon suction variation. Geotechnique Letters, 2016, 6, 144-148. | 1.2 | 44 |
| 42 | Nonstationary flow surface theory for modeling the viscoplastic behaviors of soils. Computers and Geotechnics, 2016, 76, 105-119. | 4.7 | 32 |
| 43 | Experimental investigations of the soil-concrete interface: physical mechanisms, cyclic mobilization, and behaviour at different temperatures. Canadian Geotechnical Journal, 2016, 53, 659-672. | 2.8 | 143 |
| 44 | Shear strength of a compacted scaly clay in variable saturation conditions. Acta Geotechnica, 2016, 11, 37-50. | 5.7 | 31 |
| 45 | Monitoring and prediction in early warning systems for rapid mass movements. Natural Hazards and Earth System Sciences, 2015, 15, 905-917. | 3.6 | 107 |
| 46 | One-Dimensional Transient Analysis of Rainfall Infiltration in Unsaturated Volcanic Ash. Springer Series in Geomechanics and Geoengineering, 2015, , 107-118. | 0.1 | 0 |
| 47 | Water retention behaviour and microstructural evolution of MX-80 bentonite during wetting and drying cycles. Geotechnique, 2014, 64, 721-734. | 4.0 | 141 |
| 48 | 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 |
| 49 | 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 |
| 50 | Shot-clay MX-80 bentonite: An assessment of the hydro-mechanical behaviour. Engineering Geology, 2014, 173, 10-18. | 6.3 | 15 |
| 51 | Experimental analysis of the water retention behaviour of shales. International Journal of Rock Mechanics and Minings Sciences, 2014, 72, 61-70. | 5.8 | 92 |
| 52 | Early warning thresholds for partially saturated slopes in volcanic ashes. Computers and Geotechnics, 2013, 49, 79-89. | 4.7 | 41 |
| 53 | Investigation into water retention behaviour of deformable soils. Canadian Geotechnical Journal, 2013, 50, 200-208. | 2.8 | 112 |
| 54 | Hydromechanical behaviour of a volcanic ash. Geotechnique, 2013, 63, 1433-1446. | 4.0 | 23 |

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|----|--|-----|-----------|
| 55 | An experimental and constitutive investigation on the chemo-mechanical behaviour of a clay. <i>Geotechnique</i> , 2013, 63, 244-255. | 4.0 | 59 |
| 56 | Advances in the Testing of the Hydro-mechanical Behaviour of Shales. Springer Series in Geomechanics and Geoengineering, 2013, , 57-68. | 0.1 | 23 |
| 57 | Effects of the foot evolution on the behaviour of slow-moving landslides. <i>Engineering Geology</i> , 2011, 117, 217-228. | 6.3 | 30 |
| 58 | Volume change behaviour of a compacted scaly clay during cyclic suction changes. <i>Canadian Geotechnical Journal</i> , 2010, 47, 688-703. | 2.8 | 58 |
| 59 | A Comparative Study of Soil Suction Measurement Using Two Different High-Range Psychrometers. , 2007, , 79-93. | | 40 |
| 60 | Mechanical Behaviour of Compacted Scaly Clay During Cyclic Controlled-Suction Testing. , 2007, , 345-354. | | 8 |
| 61 | Discussion on "Experimental Deformation of Opalinus Clay at Elevated Temperature and Pressure Conditions: Mechanical Properties and the Influence of Rock Fabric" of Schuster, V., Rybacki, E., Bonnelye, A., Herrmann, J., Schleicher, A.M., Dresen, G.. <i>Rock Mechanics and Rock Engineering</i> , 0, , 1. | 5.4 | 1 |