

Federica Cotecchia

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

486
citations

759233

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21
g-index

34
all docs

34
docs citations

34
times ranked

392
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modelling of slope-vegetation-atmosphere interaction: an overview. Quarterly Journal of Engineering Geology and Hydrogeology, 2017, 50, 249-270.	1.4	64
2	Slope instability processes in intensely fissured clays: case histories in the Southern Apennines. Landslides, 2015, 12, 877-893.	5.4	50
3	From a phenomenological to a geomechanical approach to landslide hazard analysis. European Journal of Environmental and Civil Engineering, 2016, 20, 1004-1031.	2.1	38
4	Interpretation of landslide mechanisms based on numerical modelling: two case-histories. European Journal of Environmental and Civil Engineering, 2016, 20, 1032-1053.	2.1	29
5	The Effects of Slope Initialization on the Numerical Model Predictions of the Slope-Vegetation-Atmosphere Interaction. Geosciences (Switzerland), 2020, 10, 85.	2.2	25
6	Recent Advances in Nature-Inspired Solutions for Ground Engineering (NiSE). International Journal of Geosynthetics and Ground Engineering, 2022, 8, 1.	2.0	25
7	Numerical analysis and monitoring of Pappadai dam. Canadian Geotechnical Journal, 2005, 42, 1631-1643.	2.8	24
8	Analysis of climate-driven processes in clayey slopes for early warning system design. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2019, 172, 465-480.	1.6	20
9	GeoLab, a measurement system for the geotechnical characterization of polluted submarine sediments. Measurement: Journal of the International Measurement Confederation, 2018, 127, 335-347.	5.0	18
10	Coupled hydro-mechanical modelling of soil-vegetation-atmosphere interaction in natural clay slopes. Canadian Geotechnical Journal, 2022, 59, 272-290.	2.8	18
11	Sustainable environmental geotechnics practices for a green economy. Environmental Geotechnics, 2022, 9, 68-84.	2.3	16
12	Assessment of Landslide Damage to Buildings at the Urban Scale. Journal of Performance of Constructed Facilities, 2018, 32, 04018055.	2.0	14
13	Towards A Geo-Hydro-Mechanical Characterization of Landslide Classes: Preliminary Results. Applied Sciences (Switzerland), 2020, 10, 7960.	2.5	12
14	The Influence of Meso-Structure on the Mechanical Behaviour of a Marly Clay from Low to High Strains. Solid Mechanics and Its Applications, 2007, , 333-350.	0.2	11
15	Methodology for Landslide Damage Assessment. Procedia Engineering, 2016, 161, 511-515.	1.2	11
16	Marine Sediments from a Contaminated Site: Geotechnical Properties and Chemo-Mechanical Coupling Processes. Geosciences (Switzerland), 2019, 9, 333.	2.2	11
17	Characterisation of the multi-scale fabric features of high plasticity clays. Geotechnique Letters, 2019, 9, 361-368.	1.2	11
18	A Geomechanical Approach to Landslide Hazard Assessment: The Multiscalar Method for Landslide Mitigation. Procedia Engineering, 2016, 158, 452-457.	1.2	10

#	ARTICLE	IF	CITATIONS
19	Coupled hydro-mechanical analysis of the effects of medium depth drainage trenches mitigating deep landslide activity. <i>Engineering Geology</i> , 2022, 297, 106510.	6.3	10
20	Deep Movements in Clayey Slopes Relating to Climate: Modeling for Early Warning System Design. <i>Lecture Notes in Civil Engineering</i> , 2020, , 205-214.	0.4	9
21	Assessing the influence of the hydraulic boundary conditions on clay slope stability: The Fontana Monte case study. <i>Engineering Geology</i> , 2022, 297, 106509.	6.3	8
22	Effects of Soil-Vegetation-Atmosphere Interaction on the Stability of a Clay Slope: A Case Study. <i>E3S Web of Conferences</i> , 2016, 9, 15002.	0.5	7
23	Effects of micro- to meso-features on the permeability of fissured clays. <i>Geotechnique Letters</i> , 2019, 9, 369-376.	1.2	7
24	Analysis of the micro to macro response of clays to compression. <i>Geotechnique</i> , 2024, 74, 134-154.	4.0	6
25	Geo-chemo-mechanical characterization of a polluted marine basin. <i>E3S Web of Conferences</i> , 2019, 92, 18001.	0.5	5
26	Localised strain in fissured clays: the combined effect of fissure orientation and confining pressure. <i>Acta Geotechnica</i> , 2022, 17, 1585-1603.	5.7	5
27	Effects of bio-chemo-mechanical processes on the properties of contaminated marine sediments. <i>Geotechnique</i> , 2023, 73, 506-520.	4.0	5
28	Microstructural Changes Underlying the Macro-response of a Stiff Clay. <i>Trends in Mathematics</i> , 2018, , 89-97.	0.1	3
29	Design of Medium Depth Drainage Trench Systems for the Mitigation of Deep Landsliding. <i>Geosciences (Switzerland)</i> , 2020, 10, 174.	2.2	3
30	The Geo-Hydro-Mechanical Properties of a Turbiditic Formation as Internal Factors of Slope Failure Processes. <i>Geosciences (Switzerland)</i> , 2021, 11, 429.	2.2	2
31	Geoâ€hydroâ€mechanics for quantitative landslide hazard assessment (QHA). <i>Ce/Papers</i> , 2018, 2, 55-82.	0.3	1
32	Two-Scale Investigation of the Retention Behavior of a Well-Graded Mixed Soil. <i>Geosciences (Switzerland)</i> , 2021, 11, 431.	2.2	1
33	An interdisciplinary approach to landslide damage assessment in urban areas. , 2021, ,		0