

# Cristina Jommi

## List of Publications by Year in descending order

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58  
papers

1,291  
citations

516215

16  
h-index

360668

35  
g-index

65  
all docs

65  
docs citations

65  
times ranked

987  
citing authors

#	ARTICLE	IF	CITATIONS
1	Consequences of drying on the hydro-mechanical response of fibrous peats upon compression. Canadian Geotechnical Journal, 2022, 59, 1712-1727.	1.4	2
2	A Bayesian hindcasting method of levee failures applied to the Breitenhagen slope failure. Georisk, 2021, 15, 299-316.	2.6	6
3	Developing a constitutive approach for peats from laboratory data. Geomechanics for Energy and the Environment, 2021, 27, 100220.	1.2	2
4	Pre-failure behaviour of reconstituted peats in triaxial compression. Acta Geotechnica, 2021, 16, 789-805.	2.9	2
5	Experimental determination of the shear strength of peat from standard undrained triaxial tests: correcting for the effects of end restraint. Geotechnique, 2021, 71, 76-87.	2.2	9
6	Determination of Water Retention Properties of Silty Sands by Means of Combined Commercial Techniques. Geosciences (Switzerland), 2021, 11, 315.	1.0	2
7	Effects of repeated hydraulic loads on microstructure and hydraulic behaviour of a compacted clayey silt. Canadian Geotechnical Journal, 2020, 57, 100-114.	1.4	29
8	A microstructure-based elastoplastic model to describe the behaviour of a compacted clayey silt in isotropic and triaxial compression. Canadian Geotechnical Journal, 2020, 57, 1025-1043.	1.4	13
9	Modelling free gas overpressure in peat layers. E3S Web of Conferences, 2020, 195, 02027.	0.2	0
10	Subsidence of dredged organic sediments in cultivated peatlands. E3S Web of Conferences, 2020, 195, 01020.	0.2	0
11	Gas exsolution and gas invasion in peat: towards a comprehensive modelling framework. Geotechnique Letters, 2020, 10, 461-467.	0.6	0
12	Implication of end restraint in triaxial tests on the derivation of stress-dilatancy rule for soils having high compressibility. Canadian Geotechnical Journal, 2019, 56, 840-851.	1.4	12
13	Experimental results on the influence of gas on the mechanical response of peats. Geotechnique, 2019, 69, 753-766.	2.2	17
14	Atmosphere-vegetation-soil interactions in a climate change context; impact of changing conditions on engineered transport infrastructure slopes in Europe. Quarterly Journal of Engineering Geology and Hydrogeology, 2018, 51, 156-168.	0.8	48
15	Small-scale evaporation tests on clay: influence of drying rate on clayey soil layer. Canadian Geotechnical Journal, 2018, 55, 437-445.	1.4	13
16	Applicability of hypoplasticity to reconstituted peat from drained triaxial tests. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 2049-2064.	1.7	2
17	Evidences of the Effects of Free Gas on the Hydro-mechanical Behaviour of Peat. Springer Series in Geomechanics and Geoengineering, 2017, , 112-119.	0.0	3
18	A water retention model accounting for the hysteresis induced by hydraulic and mechanical wetting-drying cycles. Computers and Geotechnics, 2017, 87, 86-98.	2.3	33

#	ARTICLE	IF	CITATIONS
19	Experimental evaluation of the effects of pull rate on the tensile behavior of a clay. <i>Applied Clay Science</i> , 2017, 144, 131-140.	2.6	20
20	Observations on the desiccation and cracking of clay layers. <i>Engineering Geology</i> , 2017, 230, 23-31.	2.9	66
21	Exploring Fissure Opening and Their Connectivity in a Cenozoic Clay During Gas Injection. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 288-295.	0.0	9
22	Advances in the monitoring of geo-structure subjected to climate loading. <i>E3S Web of Conferences</i> , 2016, 9, 04001.	0.2	4
23	Modelling desiccation cracking in a homogenous soil clay layer: comparison between different hypotheses on constitutive behaviour. <i>E3S Web of Conferences</i> , 2016, 9, 08006.	0.2	2
24	Fabric and clay activity in soil water retention behaviour. <i>E3S Web of Conferences</i> , 2016, 9, 04002.	0.2	1
25	Gas migration in a Cenozoic clay: Experimental results and numerical modelling. <i>Geomechanics for Energy and the Environment</i> , 2016, 6, 81-100.	1.2	25
26	Air injection tests in two argillaceous rock formations: Experimental results and modelling. , 2016, , 715-721.		1
27	Ageing effects on the small-strain stiffness of a bio-treated compacted soil. <i>Geotechnique Letters</i> , 2015, 5, 217-223.	0.6	3
28	Accounting for evolving pore size distribution in water retention models for compacted clays. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015, 39, 702-723.	1.7	67
29	Feasibility of a soft biological improvement of natural soils used in compacted linear earth construction. <i>Acta Geotechnica</i> , 2015, 10, 157-171.	2.9	26
30	Ageing effects on the small-strain stiffness of a bio-treated compacted soil. <i>Geotechnique Letters</i> , 2015, 5, 217-223.	0.6	0
31	Evaluation of numerical stress-point algorithms on elastic-plastic models for unsaturated soils with hardening dependent on the degree of saturation. <i>Computers and Geotechnics</i> , 2014, 55, 404-415.	2.3	13
32	Continuous-time monitoring of liquid water content in snowpacks using capacitance probes: A preliminary feasibility study. <i>Advances in Water Resources</i> , 2014, 68, 32-41.	1.7	15
33	A processing modeling routine to use SNOTEL hourly data in snowpack dynamic models. <i>Advances in Water Resources</i> , 2014, 73, 16-29.	1.7	38
34	Influence of microfabric evolution on the retention behaviour of compacted clayey soils. , 2014, , 679-684.		1
35	Evolution of clay fabric and water retention properties along hydromechanical stress paths. , 2014, , 971-975.		1
36	A fully coupled elastic-plastic hydromechanical model for compacted soils accounting for clay activity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 503-535.	1.7	90

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37	Investigating the dynamics of bulk snow density in dry and wet conditions using a one-dimensional model. <i>Cryosphere</i> , 2013, 7, 433-444.	1.5	35
38	Water Retention Properties of a Compacted Clayey Silt Including Void Ratio Dependency and Microstructural Features. , 2012, , 153-158.		1
39	An insight into the water retention properties of compacted clayey soils. <i>Geotechnique</i> , 2011, 61, 313-328.	2.2	379
40	MULTIPHYSICS MODELING OF ELECTROKINETIC PHENOMENA IN UNSATURATED FINE-GRAINED SOILS. Springer Series in Geomechanics and Geoenvironment, 2011, , 89-92.	0.0	1
41	Numerical integration of an elastic-viscoplastic constitutive model for dry metamorphosed snow. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2010, 34, 1271-1296.	1.7	4
42	A laboratory investigation on an undisturbed silty sand from a slope prone to landsliding. <i>Granular Matter</i> , 2010, 12, 303-316.	1.1	26
43	A model for coupled electro-hydro-mechanical processes in fine grained soils accounting for gas generation and transport. <i>Anais Da Academia Brasileira De Ciencias</i> , 2010, 82, 169-193.	0.3	27
44	Modelling criteria for a microbiologically stabilised compacted soil in the framework of elastoplasticity. , 2010, , 795-801.		2
45	Parameter calibration for hydro-mechanical modelling using numerical simulations of test results. , 2010, , 823-828.		1
46	Water retention curve for evolving marl under suction cycles. , 2010, , 1451-1457.		5
47	Effects of a microbiological compound for the stabilisation of compacted soils on their microstructure and hydro-mechanical behaviour. , 2010, , 573-578.		4
48	A driver for the integration of coupled hydro-mechanical constitutive laws for unsaturated soils. , 2010, , 1017-1023.		0
49	A transfer function of a soil water characteristic curve model for sands. , 2010, , 453-459.		1
50	Some remarks on the hydro-mechanical constitutive modelling of natural and compacted Boom clay. , 2010, , 803-809.		5
51	Influence of calcite on the electrokinetic treatment of a natural clay. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 2227-2237.	1.5	13
52	Influence of electroosmotic treatment on the hydro-mechanical behaviour of clayey silts: preliminary experimental results. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1043-1051.	1.5	16
53	An insight into the role of hydraulic history on the volume changes of anisotropic clayey soils. <i>Water Resources Research</i> , 2008, 44, .	1.7	48
54	Mixed isotropic-rotational hardening to model the deformational response of unsaturated compacted soils. , 2008, , 617-623.		1

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55	Instabilities on moraine slopes induced by loss of suction: a case history. <i>Geotechnique</i> , 2003, 53, 3-10.	2.2	128
56	A numerical model for the electrokinetic treatment of natural soils with calcite. , 2000, , 275-280.		0
57	Modelling pre-failure deformation behaviour of reinforced soil walls. <i>Geotechnique</i> , 1997, 47, 653-663.	2.2	4
58	On the use of infinite elements in the analysis of two-dimensional layered elastic systems via discretized integral equations. <i>Computers and Geotechnics</i> , 1989, 8, 269-288.	2.3	7