

Sergio D N Lourenco

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

847

citations

18

h-index

27

g-index

70

ext. papers

987

ext. citations

3.6

avg, IF

4.6

L-index

#	Paper	IF	Citations
69	Failure process and hydrologic response of a two layer physical model: Implications for rainfall-induced landslides. <i>Geomorphology</i> , 2006 , 73, 115-130	4.3	89
68	Geomorphologic features related to gravitational collapse: Submarine landsliding to lateral spreading on a Late Miocene-Quaternary slope (SE Crete, eastern Mediterranean). <i>Geomorphology</i> , 2010 , 123, 13-33	4.3	57
67	Soil suction monitoring for landslides and slopes. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2011 , 44, 23-33	1.4	46
66	A large landslide triggered by the 2008 Wenchuan (M8.0) earthquake in Donghekou area: Phenomena and mechanisms. <i>Engineering Geology</i> , 2014 , 182, 148-157	6	45
65	Formation and evolution of water menisci in unsaturated granular media. <i>Geotechnique</i> , 2012 , 62, 193-199	3.4	41
64	Conditions to induce water repellency in soils with dimethyldichlorosilane. <i>Geotechnique</i> , 2016 , 66, 441-444	3.4	36
63	Landslide Amplification by Liquefaction of Runout-Path Material after the 2008 Wenchuan (M 8.0) Earthquake, China. <i>Earth Surface Processes and Landforms</i> , 2013 , 38, 265-274	3.7	33
62	Advances in suction measurements using high suction tensiometers. <i>Engineering Geology</i> , 2013 , 165, 29-37	6	32
61	A new procedure for the determination of soil-water retention curves by continuous drying using high-suction tensiometers. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 327-335	3.2	29
60	Hydrologic behavior of model slopes with synthetic water repellent soils. <i>Journal of Hydrology</i> , 2017 , 554, 582-599	6	28
59	Calibrations of a high-suction tensiometer. <i>Geotechnique</i> , 2008 , 58, 659-668	3.4	25
58	A micromechanical experimental study of highly/completely decomposed tuff granules. <i>Acta Geotechnica</i> , 2018 , 13, 1355-1367	4.9	24
57	A Semi-Automated Technique for Repeatable and Reproducible Contact Angle Measurements in Granular Materials using the Sessile Drop Method. <i>Soil Science Society of America Journal</i> , 2017 , 81, 241-249	2.5	23
56	Development of a Commercial Tensiometer for Triaxial Testing of Unsaturated Soils 2006 , 1875		22
55	Processes in model slopes made of mixtures of wettable and water repellent sand: Implications for the initiation of debris flows in dry slopes. <i>Engineering Geology</i> , 2015 , 196, 47-58	6	21
54	Soil wettability in ground engineering: fundamentals, methods, and applications. <i>Acta Geotechnica</i> , 2018 , 13, 1-14	4.9	21
53	Hysteresis in the Soil Water Retention of a Sand-Clay Mixture with Contact Angles Lower than Ninety Degrees. <i>Vadose Zone Journal</i> , 2015 , 14, vzt2014.07.0088	2.7	18

52	Wettability of crushed air-dried minerals. <i>Geotechnique Letters</i> , 2015 , 5, 173-177	1.7	18
51	Comparison of three silane compounds to impart water repellency in an industrial sand. <i>Geotechnique Letters</i> , 2016 , 6, 263-266	1.7	16
50	3D Analysis of gravel surface texture. <i>Powder Technology</i> , 2019 , 346, 414-424	5.2	14
49	Impact mechanisms of granular flow against curved barriers. <i>Geotechnique Letters</i> , 2017 , 7, 330-338	1.7	12
48	Tensiometer techniques for determining soil water retention curves 2015 , 15-22		12
47	Critical state of polymer-coated sands. <i>Geotechnique</i> , 2019 , 69, 841-846	3.4	12
46	Imparting water repellency in completely decomposed granite with Tung oil. <i>Journal of Cleaner Production</i> , 2019 , 230, 1316-1328	10.3	11
45	Physical properties controlling water repellency in synthesized granular solids. <i>European Journal of Soil Science</i> , 2018 , 69, 698-709	3.4	10
44	Lattice Boltzmann simulation of droplet dynamics on granular surfaces with variable wettability. <i>Physical Review E</i> , 2018 , 98, 012902	2.4	10
43	Quantification of the surface roughness of quartz sand using optical interferometry. <i>Meccanica</i> , 2019 , 54, 741-748	2.1	10
42	Erodibility of synthetic water repellent granular materials: Adapting the ground to weather extremes. <i>Science of the Total Environment</i> , 2019 , 689, 398-412	10.2	10
41	Determination of the Soil Water Retention Curve with Tensiometers 2007 , 95-102		10
40	Micromechanical behaviour of a polymer-coated sand. <i>Powder Technology</i> , 2019 , 347, 76-84	5.2	9
39	Aspects of sand behaviour by modified constant shear drained tests. <i>Environmental Earth Sciences</i> , 2011 , 62, 865-870	2.9	9
38	Wettability of crushed air-dried minerals. <i>Geotechnique Letters</i> , 2015 , 5, 173-177	1.7	8
37	Factors affecting the soil water retention curve of Chinese loess. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 717-729	4	8
36	Physical degradation of hydrophobized sands. <i>Powder Technology</i> , 2020 , 367, 740-750	5.2	7
35	Characterization of coarse soils derived from igneous rocks for rammed earth. <i>Engineering Geology</i> , 2017 , 228, 137-145	6	7

34	Morphometric signature of sediment particles reveals the source and emplacement mechanisms of submarine landslides. <i>Landslides</i> , 2019 , 16, 829-837	6.6	7
33	Experimental insight into the particle morphology changes associated with landslide movement. <i>Landslides</i> , 2019 , 16, 787-798	6.6	7
32	Wettability decay in an oil-contaminated waste-mineral mixture with dry-wet cycles. <i>Environmental Earth Sciences</i> , 2015 , 74, 2563-2569	2.9	4
31	Permeability and compressibility of wax-coated sands. <i>Geotechnique</i> , 2014 , 64, 752-755	3.4	4
30	3D fractal analysis of multi-scale morphology of sand particles with μ CT and interferometer. <i>Geotechnique</i> , 2020 , 1-14	3.4	4
29	Accelerated weathering of hydrophobized sands. <i>Acta Geotechnica</i> , 1	4.9	3
28	Stabilization of an earthen material with Tung oil: compaction, strength and hydrophobic enhancement. <i>Construction and Building Materials</i> , 2021 , 290, 123213	6.7	3
27	Effect of particle size on the measurement of the apparent contact angle in sand of varying wettability under air-dried conditions. <i>E3S Web of Conferences</i> , 2016 , 9, 09003	0.5	3
26	Testing surfactants as additives for clay improvement: compaction and suction effects. <i>E3S Web of Conferences</i> , 2016 , 9, 13006	0.5	3
25	Stress-dilatancy behaviour of a polymer-coated sand. <i>Acta Geotechnica</i> , 2021 , 16, 647-652	4.9	3
24	Cover systems with synthetic water-repellent soils. <i>Vadose Zone Journal</i> , 2021 , 20, e20093	2.7	3
23	Evolution of surface roughness of single sand grains with normal loading. <i>Geotechnique</i> , 1-13	3.4	3
22	Towards a Tensiometer Based Suction Control System for Laboratory Testing of Unsaturated Soils. <i>Geotechnical Testing Journal</i> , 2011 , 34, 103755	1.3	2
21	Synthetic Water Repellent Soils for Slope Stabilization 2017 , 523-528		2
20	Optimising the hydrophobicity of sands by silanisation and powder coating. <i>Geotechnique</i> , 2019 , 1-10	3.4	2
19	Critical state of polymer-coated sands. <i>Geotechnique</i> , 2020 , 70, 839-841	3.4	2
18	Grain surface analysis of a hydrophobized sand: Thickness estimation of the soft coating layer. <i>Powder Technology</i> , 2021 , 377, 827-831	5.2	2
17	Performance and calibration of moisture sensors in silane-coated granular materials. <i>Geotechnique Letters</i> , 2019 , 9, 53-58	1.7	1

16	Calibrations of a high-suction tensiometer S. D. N. LOURENÇO, D. GALLIPOLI, D. G. TOLL, C. E. AUGARDE, F. D. EVANS and G. M. MEDERO (2008).. <i>Geotechnique</i> , 2010 , 60, 233-234	3.4	1
15	Volumetric behavior of saturated sands under poor drainage conditions. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		1
14	Soil water retention of a compacted sandy clay with sub-critical water repellency 2015 , 367-370		1
13	On the Measurement of Water Pressure in Soils with High Suction Tensiometers. <i>Geotechnical Testing Journal</i> , 2009 , 32, 102372	1.3	1
12	Observations of unsaturated soils by Environmental Scanning Electron Microscopy in dynamic mode 2008 , 145-150		1
11	Wettability Assessment of an Oil Coated Soil 2012 , 415-421		1
10	Hydrophobisation of clays and nano silica for ground engineering. <i>E3S Web of Conferences</i> , 2020 , 195, 03039	0.5	0
9	Multi-scale particle morphology evolution in rotating drum tests: Role of particle shape and pore fluid. <i>Engineering Geology</i> , 2022 , 106669	6	0
8	Water-entry pressure in water repellent soils: a review. <i>E3S Web of Conferences</i> , 2020 , 195, 02030	0.5	
7	Evaluation of suction measurement by the tensiometer and the axis translation technique 2008 , 213-218		
6	Potential of surfactants for clay improvement 2015 , 503-506		
5	Flume tests in wettable and water repellent sands: insights into the initiation of wildfire-related debris flows. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 1085-1088	0.2	
4	Droplet Interaction with Hydrophobic Granular Materials: An Insight with the Lattice Boltzmann Method. <i>Environmental Science and Engineering</i> , 2019 , 219-226	0.2	
3	Hydrophobized Granular Materials for Ground Infrastructure 2021 , 153-177		
2	Self-adaptive Construction Materials: Future Directions. <i>Engineering Materials and Processes</i> , 2022 , 215-226		
1	Ecotoxicity assessment of hydrophobized soils. <i>Environmental Geotechnics</i> , 1-8	1.2	