Sergio D N Lourenco

List of Publications by Year in Descending Order

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	Self-adaptive Construction Materials: Future Directions. *Engineering Materials and Processes*, **2022**, 215-226		
68	Multi-scale particle morphology evolution in rotating drum tests: Role of particle shape and pore fluid. *Engineering Geology*, **2022**, 106669	6	0
67	Stabilization of an earthen material with Tung oil: compaction, strength and hydrophobic enhancement. *Construction and Building Materials*, **2021**, 290, 123213	6.7	3
66	Stress-dilatancy behaviour of a polymer-coated sand. *Acta Geotechnica*, **2021**, 16, 647-652	4.9	3
65	Grain surface analysis of a hydrophobized sand: Thickness estimation of the soft coating layer. *Powder Technology*, **2021**, 377, 827-831	5.2	2
64	Factors affecting the soil–water retention curve of Chinese loess. *Bulletin of Engineering Geology and the Environment*, **2021**, 80, 717-729	4	8
63	Cover systems with synthetic water-repellent soils. *Vadose Zone Journal*, **2021**, 20, e20093	2.7	3
62	Hydrophobized Granular Materials for Ground Infrastructure **2021**, 153-177		
61	Water-entry pressure in water repellent soils: a review. *E3S Web of Conferences*, **2020**, 195, 02030	0.5	
60	Physical degradation of hydrophobized sands. *Powder Technology*, **2020**, 367, 740-750	5.2	7
59	Hydrophobisation of clays and nano silica for ground engineering. *E3S Web of Conferences*, **2020**, 195, 03039	0.5	0
58	3D fractal analysis of multi-scale morphology of sand particles with CT and interferometer. *Geotechnique*, **2020**, 1-14	3.4	4
57	Critical state of polymer-coated sands. *Geotechnique*, **2020**, 70, 839-841	3.4	2
56	3D Analysis of gravel surface texture. *Powder Technology*, **2019**, 346, 414-424	5.2	14
55	Performance and calibration of moisture sensors in silane-coated granular materials. *Geotechnique Letters*, **2019**, 9, 53-58	1.7	1
54	Imparting water repellency in completely decomposed granite with Tung oil. *Journal of Cleaner Production*, **2019**, 230, 1316-1328	10.3	11
53	Micromechanical behaviour of a polymer-coated sand. *Powder Technology*, **2019**, 347, 76-84	5.2	9

52	Quantification of the surface roughness of quartz sand using optical interferometry. *Meccanica*, **2019**, 54, 741-748	2.1	10
51	Erodibility of synthetic water repellent granular materials: Adapting the ground to weather extremes. *Science of the Total Environment*, **2019**, 689, 398-412	10.2	10
50	Optimising the hydrophobicity of sands by silanisation and powder coating. *Geotechnique*, **2019**, 1-10	3.4	2
49	Morphometric signature of sediment particles reveals the source and emplacement mechanisms of submarine landslides. *Landslides*, **2019**, 16, 829-837	6.6	7
48	Critical state of polymer-coated sands. *Geotechnique*, **2019**, 69, 841-846	3.4	12
47	Droplet Interaction with Hydrophobic Granular Materials: An Insight with the Lattice Boltzmann Method. *Environmental Science and Engineering*, **2019**, 219-226	0.2	
46	Experimental insight into the particle morphology changes associated with landslide movement. *Landslides*, **2019**, 16, 787-798	6.6	7
45	Physical properties controlling water repellency in synthesized granular solids. *European Journal of Soil Science*, **2018**, 69, 698-709	3.4	10
44	Soil wettability in ground engineering: fundamentals, methods, and applications. *Acta Geotechnica*, **2018**, 13, 1-14	4.9	21
43	Lattice Boltzmann simulation of droplet dynamics on granular surfaces with variable wettability. *Physical Review E*, **2018**, 98, 012902	2.4	10
42	A micromechanical experimental study of highly/completely decomposed tuff granules. *Acta Geotechnica*, **2018**, 13, 1355-1367	4.9	24
41	A Semi-Automated Technique for Repeatable and Reproducible Contact Angle Measurements in Granular Materials using the Sessile Drop Method. *Soil Science Society of America Journal*, **2017**, 81, 241-249	2.5	23
40	Hydrologic behavior of model slopes with synthetic water repellent soils. *Journal of Hydrology*, **2017**, 554, 582-599	6	28
39	Characterization of coarse soils derived from igneous rocks for rammed earth. *Engineering Geology*, **2017**, 228, 137-145	6	7
38	Impact mechanisms of granular flow against curved barriers. *Geotechnique Letters*, **2017**, 7, 330-338	1.7	12
37	Synthetic Water Repellent Soils for Slope Stabilization **2017**, 523-528		2
36	Comparison of three silane compounds to impart water repellency in an industrial sand. *Geotechnique Letters*, **2016**, 6, 263-266	1.7	16
35	Flume tests in wettable and water repellent sands: insights into the initiation of wildfire-related debris flows. *Japanese Geotechnical Society Special Publication*, **2016**, 2, 1085-1088	0.2	

34	Effect of particle size on the measurement of the apparent contact angle in sand of varying wettability under air-dried conditions. *E3S Web of Conferences*, **2016**, 9, 09003	0.5	3
33	Testing surfactants as additives for clay improvement: compaction and suction effects. *E3S Web of Conferences*, **2016**, 9, 13006	0.5	3
32	Conditions to induce water repellency in soils with dimethyldichlorosilane. *Geotechnique*, **2016**, 66, 441-444	3.4	36
31	Processes in model slopes made of mixtures of wettable and water repellent sand: Implications for the initiation of debris flows in dry slopes. *Engineering Geology*, **2015**, 196, 47-58	6	21
30	Wettability decay in an oil-contaminated waste-mineral mixture with dry-wet cycles. *Environmental Earth Sciences*, **2015**, 74, 2563-2569	2.9	4
29	Hysteresis in the Soil Water Retention of a Sand–Clay Mixture with Contact Angles Lower than Ninety Degrees. *Vadose Zone Journal*, **2015**, 14, vzj2014.07.0088	2.7	18
28	Wettability of crushed air-dried minerals. *Geotechnique Letters*, **2015**, 5, 173-177	1.7	18
27	Tensiometer techniques for determining soil water retention curves **2015**, 15-22		12
26	Soil water retention of a compacted sandy clay with sub-critical water repellency **2015**, 367-370		1
25	Wettability of crushed air-dried minerals. *Geotechnique Letters*, **2015**, 5, 173-177	1.7	8
24	Potential of surfactants for clay improvement **2015**, 503-506		
23	A large landslide triggered by the 2008 Wenchuan (M8.0) earthquake in Donghekou area: Phenomena and mechanisms. *Engineering Geology*, **2014**, 182, 148-157	6	45
22	Permeability and compressibility of wax-coated sands. *Geotechnique*, **2014**, 64, 752-755	3.4	4
21	Landslide Amplification by Liquefaction of Runout-Path Material after the 2008 Wenchuan (M 8.0) Earthquake, China. *Earth Surface Processes and Landforms*, **2013**, 38, 265-274	3.7	33
20	Advances in suction measurements using high suction tensiometers. *Engineering Geology*, **2013**, 165, 29-37	6	32
19	Formation and evolution of water menisci in unsaturated granular media. *Geotechnique*, **2012**, 62, 193-199	3.4	41
18	Wettability Assessment of an Oil Coated Soil **2012**, 415-421		1
17	Soil suction monitoring for landslides and slopes. *Quarterly Journal of Engineering Geology and Hydrogeology*, **2011**, 44, 23-33	1.4	46

List of Publications

16	Aspects of sand behaviour by modified constant shear drained tests. *Environmental Earth Sciences*, **2011**, 62, 865-870	2.9	9
15	A new procedure for the determination of soil-water retention curves by continuous drying using high-suction tensiometers. *Canadian Geotechnical Journal*, **2011**, 48, 327-335	3.2	29
14	Towards a Tensiometer Based Suction Control System for Laboratory Testing of Unsaturated Soils. *Geotechnical Testing Journal*, **2011**, 34, 103755	1.3	2
13	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).. *Geotechnique*, **2010**, 60, 233-234	3.4	1
12	Geomorphologic features related to gravitational collapse: Submarine landsliding to lateral spreading on a Late Miocene–Quaternary slope (SE Crete, eastern Mediterranean). *Geomorphology*, **2010**, 123, 13-33	4.3	57
11	On the Measurement of Water Pressure in Soils with High Suction Tensiometers. *Geotechnical Testing Journal*, **2009**, 32, 102372	1.3	1
10	Calibrations of a high-suction tensiometer. *Geotechnique*, **2008**, 58, 659-668	3.4	25
9	Evaluation of suction measurement by the tensiometer and the axis translation technique **2008**, 213-218		
8	Observations of unsaturated soils by Environmental Scanning Electron Microscopy in dynamic mode **2008**, 145-150		1
7	Determination of the Soil Water Retention Curve with Tensiometers **2007**, 95-102		10
6	Volumetric behavior of saturated sands under poor drainage conditions. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		1
5	Development of a Commercial Tensiometer for Triaxial Testing of Unsaturated Soils **2006**, 1875		22
4	Failure process and hydrologic response of a two layer physical model: Implications for rainfall-induced landslides. *Geomorphology*, **2006**, 73, 115-130	4.3	89
3	Accelerated weathering of hydrophobized sands. *Acta Geotechnica*,1	4.9	3
2	Evolution of surface roughness of single sand grains with normal loading. *Geotechnique*,1-13	3.4	3
1	Ecotoxicity assessment of hydrophobized soils. *Environmental Geotechnics*,1-8	1.2	