

Antônio Viana da Fonseca

List of Publications by Year in descending order

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91
papers

1,377
citations

361045

20
h-index

377514

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g-index

94
all docs

94
docs citations

94
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamental Parameters for the Stiffness and Strength Control of Artificially Cemented Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1347-1353.	1.5	105
2	Structural Performance of Alkali-Activated Soil Ash versus Soil Cement. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	93
3	Influence of Cement-Voids Ratio on Stress-Dilatancy Behavior of Artificially Cemented Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 100-109.	1.5	84
4	Effect of the Porosity/Cement Ratio on the Compression of Cemented Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1422-1426.	1.5	70
5	Strength Properties of Sandy Soil with Cement Admixtures. Geotechnical and Geological Engineering, 2009, 27, 681-686.	0.8	61
6	On the shearing behaviour of an artificially cemented soil. Acta Geotechnica, 2014, 9, 215-226.	2.9	57
7	Mechanical and durability properties of a soil stabilised with an alkali-activated cement. European Journal of Environmental and Civil Engineering, 2019, 23, 245-267.	1.0	57
8	Stiffness Behavior of Soil Stabilized with Alkali-Activated Fly Ash from Small to Large Strains. International Journal of Geomechanics, 2017, 17, .	1.3	50
9	Characterization of a profile of residual soil from granite combining geological, geophysical and mechanical testing techniques. Geotechnical and Geological Engineering, 2006, 24, 1307-1348.	0.8	48
10	Voids/Cement Ratio Controlling Tensile Strength of Cement-Treated Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 1126-1131.	1.5	45
11	Time and frequency domain evaluation of bender element systems. Geotechnique, 2015, 65, 548-562.	2.2	34
12	Results of a critical state line testing round robin programme. Geotechnique, 2021, 71, 616-630.	2.2	32
13	Interpretation of a footing load test on a saprolitic soil from granite. Geotechnique, 1997, 47, 633-651.	2.2	31
14	Mechanical behavior of inert steel slag ballast for heavy haul rail track: Laboratory evaluation. Transportation Geotechnics, 2019, 20, 100243.	2.0	29
15	Application of the response surface method to optimize alkali activated cements based on low-reactivity ladle furnace slag. Construction and Building Materials, 2020, 264, 120271.	3.2	28
16	Shear wave Velocities for Sample Quality Assessment on a Residual Soil. Soils and Foundations, 2011, 51, 683-692.	1.3	25
17	Influence of grain size and mineralogy on the porosity/cement ratio. Geotechnique Letters, 2013, 3, 130-136.	0.6	24
18	Cyclic DSS tests for the evaluation of stress densification effects in liquefaction assessment. Soil Dynamics and Earthquake Engineering, 2015, 75, 98-111.	1.9	24

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19	Cyclic and Dynamic Behavior of Sand-Rubber and Clay-Rubber Mixtures. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 3449-3467.	0.8	24
20	Colombian Soil Stabilized with Geopolymers for Low Cost Roads. <i>Procedia Engineering</i> , 2016, 143, 1392-1400.	1.2	23
21	Recommended Procedures to Assess Critical State Locus from Triaxial Tests in Cohesionless Remoulded Samples. <i>Geotechnics</i> , 2021, 1, 95-127.	1.2	21
22	Analysis of piles in a residual soil-The ISC'2 prediction. <i>Canadian Geotechnical Journal</i> , 2007, 44, 201-220.	1.4	20
23	Geomechanical assessment of an inert steel slag aggregate as an alternative ballast material for heavy haul rail tracks. <i>Construction and Building Materials</i> , 2021, 279, 122438.	3.2	19
24	Compression and shear wave propagation in cemented-sand specimens. <i>Geotechnique Letters</i> , 2011, 1, 79-84.	0.6	18
25	Experimental and Numerical Observations of the Frequency-Domain Method in Bender-Element Testing. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	1.5	18
26	Isotropic yielding of unsaturated cemented silty sand. <i>Canadian Geotechnical Journal</i> , 2013, 50, 807-819.	1.4	17
27	Simplifying calibration of bonded elasto-plastic models. <i>Computers and Geotechnics</i> , 2016, 73, 100-108.	2.3	17
28	Fatigue Cyclic Tests on Artificially Cemented Soil. <i>Geotechnical Testing Journal</i> , 2013, 36, 20120113.	0.5	17
29	Factors Affecting Steady State Locus in Triaxial Tests. <i>Geotechnical Testing Journal</i> , 2016, 39, 20150228.	0.5	17
30	Characterization of unsaturated mine waste: a case history. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1752-1761.	1.4	16
31	Comparative analysis of liquefaction susceptibility assessment methods based on the investigation on a pilot site in the greater Lisbon area. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 109-138.	2.3	15
32	Structural anisotropy by static compaction. <i>Engineering Geology</i> , 2013, 154, 89-97.	2.9	14
33	Prediction of time of liquefaction using kinetic and strain energy. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 128, 105898.	1.9	14
34	Dynamic properties of two historically liquefiable sands in the Lisbon area. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106101.	1.9	14
35	Geotechnical Characterization by In situ and Lab Tests to the Back-Analysis of a Supported Excavation in Metro do Porto. <i>Geotechnical and Geological Engineering</i> , 2010, 28, 251-264.	0.8	12
36	Deeper Vs profile constraining the dispersion curve with the ellipticity curve: A case study in Lower Tagus Valley, Portugal. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 109, 188-198.	1.9	11

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37	Technical guidelines for the assessment of earthquake induced liquefaction hazard at urban scale. Bulletin of Earthquake Engineering, 2021, 19, 4013-4057.	2.3	11
38	Load Tests on Residual Soil and Settlement Prediction on Shallow Foundation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2001, 127, 869-883.	1.5	10
39	Characterization of residual soils. , 2008, , .		10
40	Indexation of dynamic and static geomechanical properties of a cemented aggregate for transportation engineering. Transportation Geotechnics, 2014, 1, 31-44.	2.0	9
41	Getting high-quality samples in "sensitive" soils for advanced laboratory tests. Innovative Infrastructure Solutions, 2017, 2, 1.	1.1	9
42	The geotechnical test site in the greater Lisbon area for liquefaction characterisation and sample quality control of cohesionless soils. AIMS Geosciences, 2019, 5, 325-343.	0.4	9
43	Silty Sand Stabilized with Different Binders. Procedia Engineering, 2016, 143, 187-195.	1.2	8
44	Full-scale Evaluation in a Fatigue Track of a Base Course Treated with Geopolymers. Procedia Engineering, 2016, 143, 18-25.	1.2	8
45	Particle morphology's influence on the rail ballast behaviour of a steel slag aggregate. Environmental Geotechnics, 0, , 1-10.	1.3	7
46	Performance of Gel-Push sampling in liquefiable soils. Geotechnique Letters, 2020, 10, 256-261.	0.6	7
47	Defining the soil stratigraphy from seismic piezocone data: A clustering approach. Engineering Geology, 2021, 287, 106111.	2.9	7
48	Fragility Assessment of Traffic Embankments Exposed to Earthquake-Induced Liquefaction. Applied Sciences (Switzerland), 2020, 10, 6832.	1.3	5
49	Key geomechanical properties of the historically liquefiable TP-Lisbon sand. Soils and Foundations, 2021, 61, 836-836.	1.3	5
50	New Approach to Concurrent <i>VS</i> and <i>VP</i> Measurements Using Bender Elements. Geotechnical Testing Journal, 2021, 44, 1801-1820.	0.5	5
51	Microzonation of the liquefaction susceptibility: case study in the lower Tagus valley. Geotecnia, 2018, 142, 07-34.	0.1	5
52	Cyclic Liquefaction Resistance of an Alluvial Natural Sand: A Comparison between Fully and Partially Saturated Conditions. Geotechnics, 2022, 2, 1-13.	1.2	5
53	Some remarks on the assessment of P-wave velocity in laboratory tests for evaluating the degree of saturation. Acta Geotechnica, 2023, 18, 777-790.	2.9	5
54	Long Term Cyclic Response of a Soil-Cement Mixture: Experimental Study and Modelling. Procedia Engineering, 2016, 143, 178-186.	1.2	4

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55	Critical State Lines of Portuguese liquefiable sands. E3S Web of Conferences, 2019, 92, 06003.	0.2	4
56	Seepage water quality of a soil treated with alkali-activated cement at room temperature. Environmental Geotechnics, 2019, 6, 471-479.	1.3	4
57	Characterization of Highly Variable Rock Weathering by Using DPR. , 2006, , 127.		3
58	Soil Water Characteristic Curve for a Granite Residual Soil: Experimental and Numerical Results. Defect and Diffusion Forum, 0, 312-315, 1172-1177.	0.4	3
59	The mechanics of iron tailings from laboratory tests on reconstituted samples collected in post-mortem Dam I in Brumadinho. Soils and Rocks, 2022, 45, 1-20.	0.2	3
60	The Use of Drilling Parameters Recording as a Tool for Quality Control in Jet Grouting Treatments. , 2012, , .		2
61	Two Bender Receivers Frequency Domain Analysis in Resonant Column Tests. , 2014, , .		2
62	Vulnerability assessment of RC buildings to lateral spreading. Bulletin of Earthquake Engineering, 2020, 18, 3629-3657.	2.3	2
63	Site classification using equivalent soil profiles for building-liquefaction interaction. Bulletin of Earthquake Engineering, 2021, 19, 3987-4012.	2.3	2
64	Timeâ€“Frequency Filter for Computation of Surface Acceleration for Liquefiable Sites: Equivalent Linear Stockwell Analysis Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	2
65	Alkali-activated cement using slags and fly ash. , 2017, , 161-166.		2
66	Validation of liquefaction prediction models from geotechnical centrifuge tests results. Geotecnia, 2020, 148, 31-54.	0.1	2
67	Analysis of simplified time of liquefaction triggering methods by laboratory tests, physical modelling and numerical analysis. Soil Dynamics and Earthquake Engineering, 2022, 157, 107261.	1.9	2
68	Modelling the behaviour of a retaining wall in residual soils for a cut and cover construction of a deep station in Metro do Porto. Geomechanics and Geoengineering, 2011, 6, 265-281.	0.9	1
69	Investigation into the Settlement of a Case Study Building on Liquefiable Soil in Adapazari, Turkey. , 2018, , .		1
70	Evolution of the optimum ultrasonic testing frequency of alkali-activated soilâ€“ash. Geotechnique Letters, 2021, 11, 158-163.	0.6	1
71	Results of a critical state line testing round robin programme. Geotechnique, 0, , 1-2.	2.2	1
72	Numerical Methodology to Minimize Resolution and Sensitivity Effects in P-Wave Measurements. Geotechnical Testing Journal, 2013, 36, 20120111.	0.5	1

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73	Critérios para determinar o teor em cimento no solo para uso como camada de pavimento. Geotecnia, 2015, , 127-145.	0.1	1
74	Detalhes sobre os ensaios de compressão não confinada e tração por compressão diametral. Geotecnia, 2016, , 127-142.	0.1	1
75	Geotechnical Properties of Sediments by In Situ Tests. Sustainable Civil Infrastructures, 2018, , 59-68.	0.1	1
76	Comparative Analysis of the Behavior of a Piled Raft and Corresponding Pile Groups. Sustainable Civil Infrastructures, 2018, , 213-229.	0.1	1
77	Human-driven machine-automation of engineering research. , 2018, , 719-727.		1
78	Characterization of Stiff Residual Soils with Dynamically Push-in DMT. , 2006, , 261.		0
79	Insight Learning from the Results of ISC2 Pile Prediction Event in Residual Soil. , 2009, , .		0
80	Time-enhanced strength increase of an alluvial clay, typical of the northeastern region of Brazil, mixed with different cement doages - doi: 10.4025/actascitechnol.v35i3.16042. Acta Scientiarum - Technology, 2013, 35, .	0.4	0
81	Fatores de segurança determinísticos em avaliação de estabilidade de barragens de rejeitos: uma reflexão. Geotecnia, 2021, , 53-76.	0.1	0
82	30 anos de progresso em 3 laboratórios de geotecnia de universidades portuguesas: caracterização de solos não plásticos. Geotecnia, 2021, , 143-185.	0.1	0
83	Approach to Characterization of Cyclic Behavior of Artificially Bounded Soils. , 2009, , .		0
84	Definition of load transfer curves of piles in granitic residual soil. Geotecnia, 2014, 130, 79-99.	0.1	0
85	Design method for road surface thickness of earth roads. Geotecnia, 2014, 131, 113-134.	0.1	0
86	Modeling flow instability of an Algerian sand with the dilatancy rule in CASM. Geomechanics and Engineering, 2015, 9, 729-742.	0.9	0
87	NUMERICAL MODELLING OF THE DYNAMIC RESPONSE OF LIQUEFIABLE DEPOSITS IN THE PRESENCE OF SMALL SCALE BUILDINGS. , 2017, , .		0
88	Physically-Based Object-Oriented Databases for Geotechnical Engineering. Springer Series in Geomechanics and Geoengineering, 2020, , 256-267.	0.0	0
89	Estimation of Scenario-based Liquefaction Probability with Consideration of Ground-motion Randomness. Journal of Earthquake Engineering, 0, , 1-23.	1.4	0
90	CPTu-based approaches for cyclic liquefaction assessment of alluvial soil profiles. Soils and Rocks, 2021, 44, 1-14.	0.2	0

#	ARTICLE	IF	CITATIONS
91	Qualidade de amostras "eindeformadas" em solos n"o coesivos recolhidas com procedimentos avan"ados. Geotecnia, 2021, , 41-62.	0.1	0