Tiago Filipe Da Silva Miranda

List of Publications by Year
in descending order

76 papers	1,861 citations	218677 26 h-index	276875 41 g-index
77 all docs	77 docs citations	77 times ranked	1653 citing authors

#	Article	IF	Citations
1	Soil stabilisation using alkaline activation of fly ash for self compacting rammed earth construction. Construction and Building Materials, 2012, 36, 727-735.	7.2	151
2	Rockburst laboratory tests database â€" Application of data mining techniques. Engineering Geology, 2015, 185, 116-130.	6.3	120
3	Sustainable alkali activated materials: Precursor and activator derived from industrial wastes. Journal of Cleaner Production, 2017, 162, 1200-1209.	9.3	117
4	Rammed earth construction with granitic residual soils: The case study of northern Portugal. Construction and Building Materials, 2013, 47, 181-191.	7.2	83
5	Stabilisation of construction and demolition waste with a high fines content using alkali activated fly ash. Construction and Building Materials, 2018, 170, 26-39.	7.2	67
6	The Use of Data Mining Techniques in Rockburst Risk Assessment. Engineering, 2017, 3, 552-558.	6.7	59
7	Bayesian methodology for updating geomechanical parameters and uncertainty quantification. International Journal of Rock Mechanics and Minings Sciences, 2009, 46, 1144-1153.	5.8	58
8	Influence of discrete fibre reinforcement on the uniaxial compression response and seismic wave velocity of a cement-stabilised sandy-clay. Geotextiles and Geomembranes, 2015, 43, 1-13.	4.6	58
9	Quantitative and qualitative assessment of the amorphous phase of a Class F fly ash dissolved during alkali activation reactions â€" Effect of mechanical activation, solution concentration and temperature. Composites Part B: Engineering, 2016, 103, 1-14.	12.0	57
10	Influence of fibre reinforcement on the post-cracking behaviour of a cement-stabilised sandy-clay subjected to indirect tensile stress. Construction and Building Materials, 2017, 138, 163-173.	7.2	52
11	Rheological properties of alkaline activated fly ash used in jet grouting applications. Construction and Building Materials, 2013, 48, 925-933.	7.2	51
12	Geomechanical behaviour of a soft soil stabilised with alkali-activated blast-furnace slags. Journal of Cleaner Production, 2020, 267, 122017.	9.3	50
13	Back analysis of geomechanical parameters by optimisation of a 3D model of an underground structure. Tunnelling and Underground Space Technology, 2011, 26, 659-673.	6.2	49
14	Assessing the production of jet mix columns using alkali activated waste based on mechanical and financial performance and CO2 (eq) emissions. Journal of Cleaner Production, 2015, 102, 447-460.	9.3	47
15	Back analysis of geomechanical parameters in underground works using an Evolution Strategy algorithm. Tunnelling and Underground Space Technology, 2013, 33, 143-158.	6.2	46
16	Mechanical characterisation of dry-stack masonry made of CEBs stabilised with alkaline activation. Construction and Building Materials, 2015, 75, 349-358.	7.2	40
17	A Bayesian approach for NDT data fusion: The Saint Torcato church case study. Engineering Structures, 2015, 84, 120-129.	5.3	38
18	Application of alkali-activated industrial wastes for the stabilisation of a full-scale (sub)base layer. Journal of Cleaner Production, 2020, 242, 118427.	9.3	38

#	Article	IF	Citations
19	Evaluating the seismic behaviour of rammed earth buildings from Portugal: From simple tools to advanced approaches. Engineering Structures, 2018, 157, 144-156.	5.3	37
20	Improvement of a clayey soil with alkali activated low-calcium fly ash for transport infrastructures applications. Road Materials and Pavement Design, 2019, 20, 1912-1926.	4.0	36
21	ICEBs stabilised with alkali-activated fly ash as a renewed approach for green building: Exploitation of the masonry mechanical performance. Construction and Building Materials, 2017, 155, 65-78.	7.2	34
22	Geostatistical simulation to map the spatial heterogeneity of geomechanical parameters: A case study with rock mass rating. Engineering Geology, 2016, 205, 93-103.	6.3	33
23	Alkali activated composites â€“ An innovative concept using iron and steel slag as both precursor and aggregate. Cement and Concrete Composites, 2019, 103, 11-21.	10.7	32
24	Effect of Mellowing and Coal Fly Ash Addition on Behavior of Sulfate-Rich Dispersive Clay after Lime Stabilization. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	30
25	New Models for Strength and Deformability Parameter Calculation in Rock Masses Using Data-Mining Techniques. International Journal of Geomechanics, 2011, 11, 44-58.	2.7	29
26	A new empirical system for rock slope stability analysis in exploitation stage. International Journal of Rock Mechanics and Minings Sciences, 2015, 76, 182-191.	5.8	29
27	Effectiveness of the repair of unstabilised rammed earth with injection of mud grouts. Construction and Building Materials, 2016, 127, 861-871.	7.2	27
28	Compressed earth blocks stabilized with glass waste and fly ash activated with a recycled alkaline cleaning solution. Journal of Cleaner Production, 2021, 284, 124783.	9.3	25
29	Impact of water on peak and residual shear strength parameters and triaxial deformability of high-porosity building calcarenite stones: Interconnection with their physical and petrological characteristics. Construction and Building Materials, 2020, 262, 120789.	7.2	23
30	Thermal performance assessment of masonry made of ICEBâ€™s stabilised with alkali-activated fly ash. Energy and Buildings, 2017, 139, 44-52.	6.7	22
31	Using data mining algorithms to predict the bond strength of NSM FRP systems in concrete. Construction and Building Materials, 2016, 126, 484-495.	7.2	21
32	Geomechanical characterization of volcanic rocks using empirical systems and data mining techniques. Journal of Rock Mechanics and Geotechnical Engineering, 2018, 10, 138-150.	8.1	21
33	Thermal effect of high temperatures on the physical and mechanical properties of a granite used in UNESCO World Heritage sites in north Portugal. Journal of Building Engineering, 2021, 43, 102823.	3.4	20
34	Increasing the reaction kinetics of alkali-activated fly ash binders for stabilisation of a silty sand pavement sub-base. Road Materials and Pavement Design, 2018, 19, 201-222.	4.0	18
35	Piezometric level prediction based on data mining techniques. Neural Computing and Applications, 2020, 32, 4009-4024.	5.6	18
36	Luiz Bandeira Bridge: Assessment of a Historical Reinforced Concrete (RC) Bridge. International Journal of Architectural Heritage, 2013, 7, 628-652.	3.1	15

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37	Estimation of the Rock Deformation Modulus and RMR Based on Data Mining Techniques. Geotechnical and Geological Engineering, 2012, 30, 787-801.	1.7	13
38	Slope stability analysis using recent metaheuristic techniques: a comprehensive survey. SN Applied Sciences, 2019, 1, 1.	2.9	13
39	Life cycle assessment of retaining wall backfilled with shredded tires. International Journal of Life Cycle Assessment, 2019, 24, 581-589.	4.7	13
40	One-part hybrid cements from fly ash and electric arc furnace slag activated by sodium sulphate or sodium chloride. Journal of Building Engineering, 2021, 44, 103298.	3.4	13
41	Modelling Geotechnical Heterogeneities Using Geostatistical Simulation and Finite Differences Analysis. Minerals (Basel, Switzerland), 2018, 8, 52.	2.0	12
42	Development of a Numerical Tool for the Seismic Vulnerability Assessment of Vernacular Architecture. Journal of Earthquake Engineering, 2021, 25, 2926-2954.	2.5	12
43	2D numerical analysis of a cantilever retaining wall backfilled with sandâ€“tire chips mixtures. European Journal of Environmental and Civil Engineering, 2021, 25, 1119-1135.	2.1	12
44	Indirect Tensile Behaviour of Fibre Reinforced Alkali-Activated Composites. Fibers, 2018, 6, 30.	4.0	11
45	Predicting the mechanical behaviour of a sandy clay stabilised with an alkali-activated binder. Engineering Geology, 2021, 292, 106260.	6.3	11
46	Boreholes plans optimization methodology combining geostatistical simulation and simulated annealing. Tunnelling and Underground Space Technology, 2017, 70, 65-75.	6.2	10
47	Methodology for real-time adaptation of tunnels support using the observational method. Geomechanics and Engineering, 2015, 8, 153-171.	0.9	10
48	Thermal Effects on the Drilling Performance of a Limestone: Relationships with Physical and Mechanical Properties. Applied Sciences (Switzerland), 2021, 11, 3286.	2.5	8
49	3D Numerical Modeling of Foundation Solutions for Wind Turbines. International Journal of Geomechanics, 2018, 18, .	2.7	7
50	Stabilisation of a Plastic Soil with Alkali Activated Cements Developed from Industrial Wastes. Sustainability, 2021, 13, 4501.	3.2	7
51	Development of New Models for Geomechanical Characterisation Using Data Mining Techniques. Geomechanik Und Tunnelbau, 2008, 1, 328-334.	0.3	6
52	Alkali activation of recycled ceramic aggregates from construction and demolition wastes. Materiales De Construccion, 2020, 70, 222.	0.7	6
53	Truncated Gaussian Simulation to Map the Spatial Heterogeneity of Rock Mass Rating. Rock Mechanics and Rock Engineering, 2016, 49, 3371-3376.	5.4	5
54	Live-Scale Testing of Granular Materials Stabilized with Alkali-Activated Waste Glass and Carbide Lime. Applied Sciences (Switzerland), 2021, 11, 11286.	2.5	5

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55	Updating of the hierarchical rock mass rating (HRMR) system and a new subsystem developed for weathered granite formations. International Journal of Mining Science and Technology, 2014, 24, 769-775.	10.3	4
56	Statistical Analysis of the Influence of Several Factors on Compressive Strength of Alkali Activated Fly Ash. Procedia Structural Integrity, 2017, 5, 1116-1122.	0.8	4
57	Unsaturated Response of Clayey Soils Stabilised with Alkaline Cements. Molecules, 2020, 25, 2533.	3.8	4
58	Iron and Aluminium Production Wastes as Exclusive Components of Alkali Activated Bindersâ€"Towards a Sustainable Alternative. Sustainability, 2021, 13, 9938.	3.2	4
59	Tunnel engineering â€“ influence of the type and the quantity of measurements in the back analysis of geomechanical parameters. European Journal of Environmental and Civil Engineering, 2016, 20, 60-78.	2.1	3
60	Innovative monitoring strategies for multifunctional artificial reefs. , 2018, , .		3
61	Experimental testing and CFD modelling for prototype design of innovative Artificial Reef structures. , 2019, , .		3
62	Effect of polyacrylonitrile fiber on the properties of alkali-activated ceramic/slag-based mortar. Journal of Building Engineering, 2021, 44, 103367.	3.4	3
63	Identification of Persistent Discontinuities on a Granitic Rock Mass Through 3D Datasets and Traditional Fieldwork: A Comparative Analysis. Springer Series in Geomechanics and Geoengineering, 2020, , 868-878.	0.1	3
64	Using geotechnical scenarios for underground structure analysis: A case study in a hydroelectric complex in northern Portugal. Tunnelling and Underground Space Technology, 2021, 111, 103855.	6.2	2
65	Statistical Study of Curing Conditions in Alkali Activation of Mine Tailings. Environmental Geotechnics, 2019, , 1-13.	2.3	1
66	Experimental characterization of the scour of innovative artificial reef prototypes using hydraulic flume and photogrammetry. , 2019, , .		1
67	Procedimiento constructivo de muros de sÃ³tano mediante bataches con juntas de conexiÃ³n. Estudio del ancho Ã³ptimo de excavaciÃ³n en suelos mixtos. Informes De La Construccion, 2020, 72, 344.	0.3	1
68	Venda Nova II Powerhouse Complexâ€"Geomechanical Characterization, Numerical Modeling, and Back Analysis of Geomechanical Parameters. , 2011, , .		0
69	Multiobjective Optimization of Maintenance Scheduling: Application to Slopes and Retaining Walls. Procedia Engineering, 2016, 143, 666-673.	1.2	0
70	Application of Geostatistical techniques to support data acquisition and predict maritime variables. , 2018, , .		0
71	From decision-making to Oceans Accounts: a case study. , 2019, , .		0
72	Rockburst Risk Assessment Based on Soft Computing Algorithms. Lecture Notes in Civil Engineering, 2021, , 703-714.	0.4	0

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73	Modelling the Stress-Strain Behaviour of a Soft Soil Improved with an Environmentally Friendly Binder. Lecture Notes in Civil Engineering, 2021, , 382-389.	0.4	0
74	Thermal Performance of Compressed Blocks Made from Construction and Polyurethane Foam Waste. RILEM Bookseries, 2021, , 225-236.	0.4	0
75	Alkali-Activated Fly Ashes: Influence of Curing Conditions on Mechanical Strength. U Porto Journal of Engineering, 2017, 3, 57-67.	0.4	0
76	Study on guardrail post behavior located on organic soil using simplified experimental and numerical methods. Soils and Rocks, 2022, 45, 1-16.	0.5	0