

Tiago Filipe Da Silva Miranda

List of Publications by Year in descending order

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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	Study on guardrail post behavior located on organic soil using simplified experimental and numerical methods. <i>Soils and Rocks</i> , 2022, 45, 1-16.	0.5	0
2	Development of a Numerical Tool for the Seismic Vulnerability Assessment of Vernacular Architecture. <i>Journal of Earthquake Engineering</i> , 2021, 25, 2926-2954.	2.5	12
3	2D numerical analysis of a cantilever retaining wall backfilled with sand-tire chips mixtures. <i>European Journal of Environmental and Civil Engineering</i> , 2021, 25, 1119-1135.	2.1	12
4	Compressed earth blocks stabilized with glass waste and fly ash activated with a recycled alkaline cleaning solution. <i>Journal of Cleaner Production</i> , 2021, 284, 124783.	9.3	25
5	Rockburst Risk Assessment Based on Soft Computing Algorithms. <i>Lecture Notes in Civil Engineering</i> , 2021, , 703-714.	0.4	0
6	Modelling the Stress-Strain Behaviour of a Soft Soil Improved with an Environmentally Friendly Binder. <i>Lecture Notes in Civil Engineering</i> , 2021, , 382-389.	0.4	0
7	Thermal Performance of Compressed Blocks Made from Construction and Polyurethane Foam Waste. <i>RILEM Bookseries</i> , 2021, , 225-236.	0.4	0
8	Stabilisation of a Plastic Soil with Alkali Activated Cements Developed from Industrial Wastes. <i>Sustainability</i> , 2021, 13, 4501.	3.2	7
9	Thermal Effects on the Drilling Performance of a Limestone: Relationships with Physical and Mechanical Properties. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3286.	2.5	8
10	Using geotechnical scenarios for underground structure analysis: A case study in a hydroelectric complex in northern Portugal. <i>Tunnelling and Underground Space Technology</i> , 2021, 111, 103855.	6.2	2
11	Iron and Aluminium Production Wastes as Exclusive Components of Alkali Activated Binders—Towards a Sustainable Alternative. <i>Sustainability</i> , 2021, 13, 9938.	3.2	4
12	Predicting the mechanical behaviour of a sandy clay stabilised with an alkali-activated binder. <i>Engineering Geology</i> , 2021, 292, 106260.	6.3	11
13	Thermal effect of high temperatures on the physical and mechanical properties of a granite used in UNESCO World Heritage sites in north Portugal. <i>Journal of Building Engineering</i> , 2021, 43, 102823.	3.4	20
14	One-part hybrid cements from fly ash and electric arc furnace slag activated by sodium sulphate or sodium chloride. <i>Journal of Building Engineering</i> , 2021, 44, 103298.	3.4	13
15	Effect of polyacrylonitrile fiber on the properties of alkali-activated ceramic/slag-based mortar. <i>Journal of Building Engineering</i> , 2021, 44, 103367.	3.4	3
16	Live-Scale Testing of Granular Materials Stabilized with Alkali-Activated Waste Glass and Carbide Lime. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11286.	2.5	5
17	Application of alkali-activated industrial wastes for the stabilisation of a full-scale (sub)base layer. <i>Journal of Cleaner Production</i> , 2020, 242, 118427.	9.3	38
18	Piezometric level prediction based on data mining techniques. <i>Neural Computing and Applications</i> , 2020, 32, 4009-4024.	5.6	18

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19	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. <i>Construction and Building Materials</i> , 2020, 262, 120789.	7.2	23
20	Geomechanical behaviour of a soft soil stabilised with alkali-activated blast-furnace slags. <i>Journal of Cleaner Production</i> , 2020, 267, 122017.	9.3	50
21	Unsaturated Response of Clayey Soils Stabilised with Alkaline Cements. <i>Molecules</i> , 2020, 25, 2533.	3.8	4
22	Alkali activation of recycled ceramic aggregates from construction and demolition wastes. <i>Materiales De Construccion</i> , 2020, 70, 222.	0.7	6
23	Identification of Persistent Discontinuities on a Granitic Rock Mass Through 3D Datasets and Traditional Fieldwork: A Comparative Analysis. <i>Springer Series in Geomechanics and Geoengineering</i> , 2020, , 868-878.	0.1	3
24	Procedimiento constructivo de muros de sãtano mediante batches con juntas de conexiã³n. Estudio del ancho ã³ptimo de excavaciã³n en suelos mixtos. <i>Informes De La Construccion</i> , 2020, 72, 344.	0.3	1
25	Improvement of a clayey soil with alkali activated low-calcium fly ash for transport infrastructures applications. <i>Road Materials and Pavement Design</i> , 2019, 20, 1912-1926.	4.0	36
26	Alkali activated composites â€“ An innovative concept using iron and steel slag as both precursor and aggregate. <i>Cement and Concrete Composites</i> , 2019, 103, 11-21.	10.7	32
27	Effect of Mellowing and Coal Fly Ash Addition on Behavior of Sulfate-Rich Dispersive Clay after Lime Stabilization. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	2.9	30
28	Statistical Study of Curing Conditions in Alkali Activation of Mine Tailings. <i>Environmental Geotechnics</i> , 2019, , 1-13.	2.3	1
29	Experimental testing and CFD modelling for prototype design of innovative Artificial Reef structures. , 2019, , .		3
30	From decision-making to Oceans Accounts: a case study. , 2019, , .		0
31	Experimental characterization of the scour of innovative artificial reef prototypes using hydraulic flume and photogrammetry. , 2019, , .		1
32	Slope stability analysis using recent metaheuristic techniques: a comprehensive survey. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	13
33	Life cycle assessment of retaining wall backfilled with shredded tires. <i>International Journal of Life Cycle Assessment</i> , 2019, 24, 581-589.	4.7	13
34	Evaluating the seismic behaviour of rammed earth buildings from Portugal: From simple tools to advanced approaches. <i>Engineering Structures</i> , 2018, 157, 144-156.	5.3	37
35	Geomechanical characterization of volcanic rocks using empirical systems and data mining techniques. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018, 10, 138-150.	8.1	21
36	Stabilisation of construction and demolition waste with a high fines content using alkali activated fly ash. <i>Construction and Building Materials</i> , 2018, 170, 26-39.	7.2	67

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37	Increasing the reaction kinetics of alkali-activated fly ash binders for stabilisation of a silty sand pavement sub-base. <i>Road Materials and Pavement Design</i> , 2018, 19, 201-222.	4.0	18
38	Innovative monitoring strategies for multifunctional artificial reefs. , 2018, , .		3
39	Application of Geostatistical techniques to support data acquisition and predict maritime variables. , 2018, , .		0
40	3D Numerical Modeling of Foundation Solutions for Wind Turbines. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	7
41	Modelling Geotechnical Heterogeneities Using Geostatistical Simulation and Finite Differences Analysis. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 52.	2.0	12
42	Indirect Tensile Behaviour of Fibre Reinforced Alkali-Activated Composites. <i>Fibers</i> , 2018, 6, 30.	4.0	11
43	Influence of fibre reinforcement on the post-cracking behaviour of a cement-stabilised sandy-clay subjected to indirect tensile stress. <i>Construction and Building Materials</i> , 2017, 138, 163-173.	7.2	52
44	Sustainable alkali activated materials: Precursor and activator derived from industrial wastes. <i>Journal of Cleaner Production</i> , 2017, 162, 1200-1209.	9.3	117
45	Thermal performance assessment of masonry made of ICEBâ€™s stabilised with alkali-activated fly ash. <i>Energy and Buildings</i> , 2017, 139, 44-52.	6.7	22
46	The Use of Data Mining Techniques in Rockburst Risk Assessment. <i>Engineering</i> , 2017, 3, 552-558.	6.7	59
47	ICEBs stabilised with alkali-activated fly ash as a renewed approach for green building: Exploitation of the masonry mechanical performance. <i>Construction and Building Materials</i> , 2017, 155, 65-78.	7.2	34
48	Statistical Analysis of the Influence of Several Factors on Compressive Strength of Alkali Activated Fly Ash. <i>Procedia Structural Integrity</i> , 2017, 5, 1116-1122.	0.8	4
49	Boreholes plans optimization methodology combining geostatistical simulation and simulated annealing. <i>Tunnelling and Underground Space Technology</i> , 2017, 70, 65-75.	6.2	10
50	Alkali-Activated Fly Ashes: Influence of Curing Conditions on Mechanical Strength. <i>U Porto Journal of Engineering</i> , 2017, 3, 57-67.	0.4	0
51	Geostatistical simulation to map the spatial heterogeneity of geomechanical parameters: A case study with rock mass rating. <i>Engineering Geology</i> , 2016, 205, 93-103.	6.3	33
52	Multiobjective Optimization of Maintenance Scheduling: Application to Slopes and Retaining Walls. <i>Procedia Engineering</i> , 2016, 143, 666-673.	1.2	0
53	Using data mining algorithms to predict the bond strength of NSM FRP systems in concrete. <i>Construction and Building Materials</i> , 2016, 126, 484-495.	7.2	21
54	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. <i>Composites Part B: Engineering</i> , 2016, 103, 1-14.	12.0	57

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55	Effectiveness of the repair of unstabilised rammed earth with injection of mud grouts. <i>Construction and Building Materials</i> , 2016, 127, 861-871.	7.2	27
56	Tunnel engineering – influence of the type and the quantity of measurements in the back analysis of geomechanical parameters. <i>European Journal of Environmental and Civil Engineering</i> , 2016, 20, 60-78.	2.1	3
57	Truncated Gaussian Simulation to Map the Spatial Heterogeneity of Rock Mass Rating. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3371-3376.	5.4	5
58	Rockburst laboratory tests database – Application of data mining techniques. <i>Engineering Geology</i> , 2015, 185, 116-130.	6.3	120
59	A new empirical system for rock slope stability analysis in exploitation stage. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 76, 182-191.	5.8	29
60	Assessing the production of jet mix columns using alkali activated waste based on mechanical and financial performance and CO ₂ (eq) emissions. <i>Journal of Cleaner Production</i> , 2015, 102, 447-460.	9.3	47
61	Influence of discrete fibre reinforcement on the uniaxial compression response and seismic wave velocity of a cement-stabilised sandy-clay. <i>Geotextiles and Geomembranes</i> , 2015, 43, 1-13.	4.6	58
62	A Bayesian approach for NDT data fusion: The Saint Torcato church case study. <i>Engineering Structures</i> , 2015, 84, 120-129.	5.3	38
63	Mechanical characterisation of dry-stack masonry made of CEBs stabilised with alkaline activation. <i>Construction and Building Materials</i> , 2015, 75, 349-358.	7.2	40
64	Methodology for real-time adaptation of tunnels support using the observational method. <i>Geomechanics and Engineering</i> , 2015, 8, 153-171.	0.9	10
65	Updating of the hierarchical rock mass rating (HRMR) system and a new subsystem developed for weathered granite formations. <i>International Journal of Mining Science and Technology</i> , 2014, 24, 769-775.	10.3	4
66	Rheological properties of alkaline activated fly ash used in jet grouting applications. <i>Construction and Building Materials</i> , 2013, 48, 925-933.	7.2	51
67	Back analysis of geomechanical parameters in underground works using an Evolution Strategy algorithm. <i>Tunnelling and Underground Space Technology</i> , 2013, 33, 143-158.	6.2	46
68	Rammed earth construction with granitic residual soils: The case study of northern Portugal. <i>Construction and Building Materials</i> , 2013, 47, 181-191.	7.2	83
69	Luiz Bandeira Bridge: Assessment of a Historical Reinforced Concrete (RC) Bridge. <i>International Journal of Architectural Heritage</i> , 2013, 7, 628-652.	3.1	15
70	Soil stabilisation using alkaline activation of fly ash for self compacting rammed earth construction. <i>Construction and Building Materials</i> , 2012, 36, 727-735.	7.2	151
71	Estimation of the Rock Deformation Modulus and RMR Based on Data Mining Techniques. <i>Geotechnical and Geological Engineering</i> , 2012, 30, 787-801.	1.7	13
72	New Models for Strength and Deformability Parameter Calculation in Rock Masses Using Data-Mining Techniques. <i>International Journal of Geomechanics</i> , 2011, 11, 44-58.	2.7	29

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73	Venda Nova II Powerhouse Complex – Geomechanical Characterization, Numerical Modeling, and Back Analysis of Geomechanical Parameters. , 2011, , .		0
74	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
75	Bayesian methodology for updating geomechanical parameters and uncertainty quantification. International Journal of Rock Mechanics and Minings Sciences, 2009, 46, 1144-1153.	5.8	58
76	Development of New Models for Geomechanical Characterisation Using Data Mining Techniques. Geomechanik Und Tunnelbau, 2008, 1, 328-334.	0.3	6