

Mohamed A Meguid

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,898
citations

236833

25
h-index

276775

41
g-index

69
all docs

69
docs citations

69
times ranked

1323
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical modeling of tunnels in soft ground: A review. <i>Tunnelling and Underground Space Technology</i> , 2008, 23, 185-198.	3.0	222
2	The effect of erosion voids on existing tunnel linings. <i>Tunnelling and Underground Space Technology</i> , 2009, 24, 278-286.	3.0	106
3	Robust ensemble learning framework for day-ahead forecasting of household based energy consumption. <i>Applied Energy</i> , 2018, 212, 997-1012.	5.1	105
4	A finiteâ€“discrete element framework for the 3D modeling of geogridâ€“soil interaction under pullout loading conditions. <i>Geotextiles and Geomembranes</i> , 2013, 37, 1-9.	2.3	93
5	Investigation of soil-geosynthetic-structure interaction associated with induced trench installation. <i>Geotextiles and Geomembranes</i> , 2017, 45, 320-330.	2.3	68
6	A three-dimensional finite element approach for modeling biaxial geogrid with application to geogrid-reinforced soils. <i>Geotextiles and Geomembranes</i> , 2016, 44, 295-307.	2.3	67
7	An experimental study of the effect of local contact loss on the earth pressure distribution on existing tunnel linings. <i>Tunnelling and Underground Space Technology</i> , 2011, 26, 139-145.	3.0	63
8	Effect of particle shape on the response of geogrid-reinforced systems: Insights from 3D discrete element analysis. <i>Geotextiles and Geomembranes</i> , 2018, 46, 685-698.	2.3	63
9	On the Role of Geogrid Reinforcement in Reducing Earth Pressure on Buried Pipes: Experimental and Numerical Investigations. <i>Soils and Foundations</i> , 2015, 55, 588-599.	1.3	59
10	A three-dimensional analysis of the effects of erosion voids on rigid pipes. <i>Tunnelling and Underground Space Technology</i> , 2014, 43, 276-289.	3.0	51
11	An efficient finiteâ€“discrete element method for quasiâ€“static nonlinear soilâ€“structure interaction problems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 130-149.	1.7	50
12	On the role of sphericity of falling rock clustersâ€“insights from experimental and numerical investigations. <i>Landslides</i> , 2018, 15, 219-232.	2.7	48
13	Wildlife and Safety of Earthen Structures: A Review. <i>Journal of Failure Analysis and Prevention</i> , 2011, 11, 295-319.	0.5	42
14	Discrete Element and Experimental Investigations of the Earth Pressure Distribution on Cylindrical Shafts. <i>International Journal of Geomechanics</i> , 2014, 14, 80-91.	1.3	40
15	Three-Dimensional Analysis of Geogrid-Reinforced Soil Using a Finite-Discrete Element Framework. <i>International Journal of Geomechanics</i> , 2015, 15, .	1.3	40
16	Experimental investigation of the earth pressure distribution on buried pipes backfilled with tire-derived aggregate. <i>Transportation Geotechnics</i> , 2018, 14, 117-125.	2.0	36
17	Dynamic disintegration processes accompanying transport of an earthquake-induced landslide. <i>Landslides</i> , 2021, 18, 909-933.	2.7	36
18	A study on the effects of overlying soil strata on the stresses developing in a tunnel lining. <i>Tunnelling and Underground Space Technology</i> , 2009, 24, 716-722.	3.0	34

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19	Investigation of Tunnel-Soil-Pile Interaction in Cohesive Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 973-979.	1.5	34
20	Stability of D-shaped tunnels in a Mohr–Coulomb material under anisotropic stress conditions. <i>Canadian Geotechnical Journal</i> , 2006, 43, 273-281.	1.4	31
21	Earth Pressure Distribution on a Rigid Box Covered with U-Shaped Geofoam Wrap. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2017, 3, 1.	0.9	31
22	Insights into the Transport and Fragmentation Characteristics of Earthquake-Induced Rock Avalanche: Numerical Study. <i>International Journal of Geomechanics</i> , 2020, 20, .	1.3	31
23	Three-dimensional analysis of unlined tunnels in rock subjected to high horizontal stress. <i>Canadian Geotechnical Journal</i> , 2003, 40, 1208-1224.	1.4	29
24	A Numerical Procedure for the Assessment of Contact Pressures on Buried Structures Overlain by EPS Geofoam Inclusion. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2017, 3, 1.	0.9	28
25	On the role of pre-existing discontinuities on the micromechanical behavior of confined rock samples: a numerical study. <i>Acta Geotechnica</i> , 2020, 15, 3483-3510.	2.9	28
26	Predicting seismic-induced liquefaction through ensemble learning frameworks. <i>Scientific Reports</i> , 2019, 9, 11786.	1.6	27
27	Experimental Investigation of the Shear Behavior of EPS Geofoam. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2018, 4, 1.	0.9	26
28	Comparative evaluation of methods to determine the earth pressure distribution on cylindrical shafts: A review. <i>Tunnelling and Underground Space Technology</i> , 2010, 25, 188-197.	3.0	25
29	Modeling the Impact of a Falling Rock Cluster on Rigid Structures. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	25
30	Improved understanding of geogrid response to pullout loading: insights from three-dimensional finite-element analysis. <i>Canadian Geotechnical Journal</i> , 2020, 57, 277-293.	1.4	22
31	Intelligent Approaches for Predicting Failure of Water Mains. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, .	0.9	21
32	Algorithm to Generate a Discrete Element Specimen with Predefined Properties. <i>International Journal of Geomechanics</i> , 2010, 10, 85-91.	1.3	19
33	Evaluation of Soil–Pipe Interaction under Relative Axial Ground Movement. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017, 8, .	0.9	19
34	Excavation failure during micro-tunneling in fine sands: A case study. <i>Tunnelling and Underground Space Technology</i> , 2010, 25, 811-818.	3.0	18
35	Failure modeling of water distribution pipelines using meta-learning algorithms. <i>Water Research</i> , 2021, 205, 117680.	5.3	18
36	Evaluating the performance of an explicit dynamic relaxation technique in analyzing non-linear geotechnical engineering problems. <i>Computers and Geotechnics</i> , 2010, 37, 125-131.	2.3	17

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37	Estimating earth loads on buried pipes under axial loading condition: insights from 3D discrete element analysis. <i>International Journal of Geo-Engineering</i> , 2018, 9, 1.	0.9	17
38	Behavior of cantilever secant pile wall supporting excavation in sandy soil considering pile-pile interaction. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	17
39	Experimental Study of the Earth Pressure Distribution on Cylindrical Shafts. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 1121-1125.	1.5	14
40	Plausible failure mechanisms of wildlife-damaged earth levees: insights from centrifuge modeling and numerical analysis. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1496-1508.	1.4	14
41	Experimental evaluation of the performance of earth levees deteriorated by wildlife activities. <i>Acta Geotechnica</i> , 2016, 11, 83-93.	2.9	13
42	On the role of joint roughness on the micromechanics of rock fracturing process: a numerical study. <i>Acta Geotechnica</i> , 2022, 17, 2799-2824.	2.9	13
43	Coupled Flow Modelling in Geotechnical and Ground Engineering: An Overview. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2020, 6, 1.	0.9	12
44	3D Effects of Surface Construction Over Existing Subway Tunnels. <i>International Journal of Geomechanics</i> , 2002, 2, 447-469.	1.3	11
45	An Approach to Predict the Failure of Water Mains Under Climatic Variations. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2020, 6, 1.	0.9	11
46	Application of a multilaminate model to simulate the undrained response of structured clay to shield tunnelling. <i>Canadian Geotechnical Journal</i> , 2008, 45, 14-28.	1.4	10
47	Investigating the Effects of Local Contact Loss on the Earth Pressure Distribution on Rigid Pipes. <i>Geotechnical and Geological Engineering</i> , 2013, 31, 199-212.	0.8	9
48	Earth Pressure Distribution on Buried Pipes Installed with Geofoam Inclusion and Subjected to Cyclic Loading. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2020, 6, 1.	0.9	7
49	Evaluating the Role of Geofoam Properties in Reducing Lateral Loads on Retaining Walls: A Numerical Study. <i>Sustainability</i> , 2021, 13, 4754.	1.6	7
50	Impact of Ballast Fouling on the Mechanical Properties of Railway Ballast: Insights from Discrete Element Analysis. <i>Processes</i> , 2021, 9, 1331.	1.3	6
51	Improvement of Expansive Soil by Using Micro Silica Fume. <i>Journal of Engineering Research</i> , 2020, 4, 26-30.	0.1	6
52	CFD-DEM modeling of geotextile clogging in tunnel drainage systems. <i>Geotextiles and Geomembranes</i> , 2022, 50, 932-945.	2.3	6
53	Microscale Characterization of Fracture Growth in Increasingly Jointed Rock Samples. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 6033-6061.	2.6	6
54	On the role of geofoam density on the interface shear behavior of composite geosystems. <i>International Journal of Geo-Engineering</i> , 2019, 10, 1.	0.9	5

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55	A finite-discrete element approach for modelling polyethylene pipes subjected to axial ground movement. <i>International Journal of Geotechnical Engineering</i> , 2020, 14, 717-729.	1.1	5
56	Continuum-Based Approach to Model Particulate Soil-Water Interaction: Model Validation and Insight into Internal Erosion. <i>Processes</i> , 2021, 9, 785.	1.3	5
57	A Numerical Study on the Role of EPS Geofoam in Reducing Earth Pressure on Retaining Structures Under Dynamic Loading. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2021, 7, 1.	0.9	5
58	Axial response of piles in electrically treated clay. <i>Canadian Geotechnical Journal</i> , 1999, 36, 418-429.	1.4	4
59	On the Effects of Subgrade Erosion on the Contact Pressure Distribution under Rigid Surface Structures. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 1538-1542.	1.5	4
60	Experimental Investigation of the Tensile Response of Stiff Fiberglass Geogrid Under Varying Temperatures. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2022, 8, 1.	0.9	4
61	Patents and Techniques of Contact Pressure Measurement in Geotechnical Engineering. <i>Recent Patents on Engineering</i> , 2009, 3, 210-219.	0.3	3
62	On the Time-Dependent Behavior of EPS Geofoam: Experimental and Numerical Investigations. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 755-764.	0.8	3
63	On the Response of Polyethylene Pipes to Lateral Ground Movements: Insights from Finite-Discrete Element Analysis. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2020, 6, 1.	0.9	3
64	Enhancing the Swelling Characteristics and Shear Strength of Expansive Soil Using Ferric Chloride Solution. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2021, 7, 1.	0.9	3
65	Varying-parameter modeling within ensemble architecture: Application to extended streamflow forecasting. <i>Journal of Hydrology</i> , 2020, 582, 124511.	2.3	2
66	Special Issue on "Analysis, Design, Construction and Performance of Buried Structures" <i>International Journal of Geosynthetics and Ground Engineering</i> , 2020, 6, 1.	0.9	0
67	Earth Pressure Distribution on Rigid Pipes Overlain by TDA Inclusion. <i>Sustainable Civil Infrastructures</i> , 2019, , 1-13.	0.1	0
68	Earth Pressure Distribution on Rigid Pipes Overlain by TDA Inclusion. <i>Sustainable Civil Infrastructures</i> , 2019, , 81-93.	0.1	0