

Hadi Khabbaz

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

3,119
citations

201674

27
h-index

168389

53
g-index

136
all docs

136
docs citations

136
times ranked

2168
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances and past discoveries on tapered pile foundations: a review. <i>Geomechanics and Geoengineering</i> , 2022, 17, 455-484.	1.8	8
2	Analytical Solution for Plane Strain Consolidation of Soft Soil Stabilised by Stone Columns. <i>Lecture Notes in Civil Engineering</i> , 2022, , 753-767.	0.4	1
3	Numerical Investigation on the Boiling Stability of Sheet Piles Supported Excavations in Cohesionless Soil. <i>Lecture Notes in Civil Engineering</i> , 2022, , 401-410.	0.4	0
4	Axial and Lateral Efficiency of Tapered Pile Groups in Sand Using Mathematical and Three-Dimensional Numerical Analyses. <i>Journal of Performance of Constructed Facilities</i> , 2022, 36, .	2.0	2
5	Random Field Reliability Analysis for Time-Dependent Behaviour of Soft Soils Considering Spatial Variability of Elastic Visco-Plastic Parameters. <i>Reliability Engineering and System Safety</i> , 2022, 219, 108254.	8.9	12
6	A Practical Application Using Industrial Waste for Enhancing the Mechanical Properties of Expansive Soil. <i>Lecture Notes in Civil Engineering</i> , 2022, , 80-88.	0.4	0
7	Predicting the Stability of Riverbank Slope Reinforced with Columns Under Various River Water Conditions. <i>Lecture Notes in Civil Engineering</i> , 2022, , 513-523.	0.4	3
8	MACHINE LEARNING AIDED STOCHASTIC SLOPE STABILITY ANALYSIS. , 2021, , .		0
9	Numerical study on deformation characteristics of fibre-reinforced load-transfer platform and columns-supported embankments. <i>Canadian Geotechnical Journal</i> , 2021, 58, 328-350.	2.8	16
10	Field study and numerical modelling for a road embankment built on soft soil improved with concrete injected columns and geosynthetics reinforced platform. <i>Geotextiles and Geomembranes</i> , 2021, 49, 804-824.	4.6	22
11	Simplified geotechnical rheological model for simulating viscoelastoâ€plastic response of ballasted railway substructure. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 2019-2047.	3.3	10
12	Analytical and Numerical Approaches to Attain the Optimum Tapering Angle for Axially-Loaded Bored Piles in Sandy Soils. <i>International Journal of Geomechanics</i> , 2021, 21, .	2.7	2
13	Reliability Assessment for Time-Dependent Behaviour of Soft Soils Considering Cross Correlation between Visco-Plastic Model Parameters. <i>Reliability Engineering and System Safety</i> , 2021, 213, 107680.	8.9	6
14	Improving engineering characteristics of expansive soils using industry waste as a sustainable application for reuse of bagasse ash. <i>Transportation Geotechnics</i> , 2021, 31, 100637.	4.5	30
15	A Comparative Study on Soil Stabilization Relevant to Transport Infrastructure using Bagasse Ash and Stone Dust and Cost Effectiveness. <i>Civil Engineering Journal (Iran)</i> , 2021, 7, 1947-1963.	3.9	11
16	Modelling of columns and fibre-reinforced load-transfer platform-supported embankments. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2020, 173, 197-215.	1.0	8
17	Evaluation of additional confinement for three-dimensional geoinclusions under general stress state. <i>Canadian Geotechnical Journal</i> , 2020, 57, 453-461.	2.8	17
18	Three dimensional discrete element simulation of cylindrical cavity expansion from zero initial radius in sand. <i>Computers and Geotechnics</i> , 2020, 117, 103230.	4.7	4

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19	Performance comparison of a MSW settlement prediction model in Tehran landfill. Journal of Environmental Management, 2020, 254, 109809.	7.8	14
20	Interpretation of Dynamic Pile Load Testing for Open-Ended Tubular Piles Using Finite-Element Method. International Journal of Geomechanics, 2020, 20, 04019169.	2.7	18
21	A comparison between undrained shear strength of clayey soils acquired by "PMT" and laboratory tests. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	1
22	Impacts of matric suction equalization on small strain shear modulus of soils during air drying. Canadian Geotechnical Journal, 2020, 57, 1982-1997.	2.8	2
23	Field Assessment of Gravel Loss on Unsealed Roads in Australia. Frontiers in Built Environment, 2020, 6, .	2.3	0
24	Analytical Evaluation of Ballasted Track Substructure Response under Repeated Train Loads. International Journal of Geomechanics, 2020, 20, .	2.7	15
25	Applications of Recycled Sustainable Materials and By-Products in Soil Stabilization. Sustainable Civil Infrastructures, 2020, , 91-117.	0.2	6
26	EFFECT OF SURCHARGE HEIGHT AND PRELOADING TIME ON LONG-TERM SETTLEMENT OF CLOSED LANDFILLS: A NUMERICAL ANALYSIS. , 2020, , .		2
27	Evaluation of Concrete Bored Piles Behaviour in Saturated Loose and Dense Sand During the Static Load Testing. Sustainable Civil Infrastructures, 2019, , 75-89.	0.2	1
28	Investigating Effects of Individual Fracture Length on Behaviour of Weak Rock Using Discrete Element Method. Sustainable Civil Infrastructures, 2019, , 46-56.	0.2	0
29	A Parametric Study of Deep Mixing Columns and Fibre Reinforced Load Transfer Platform Supported Embankments. Sustainable Civil Infrastructures, 2019, , 179-194.	0.2	2
30	Application of buoyancy-power generator for compressed air energy storage using a fluid-air displacement system. Journal of Energy Storage, 2019, 26, 100926.	8.1	4
31	Numerical simulation of concrete pile groups' response bored in cemented sand deposit under axial static load testing. E3S Web of Conferences, 2019, 92, 16011.	0.5	1
32	Assessment of the Internal Shaft Friction of Tubular Piles in Jointed Weak Rock Using the Discrete-Element Method. Journal of Performance of Constructed Facilities, 2019, 33, .	2.0	6
33	Shear Strength Behaviour of Bagasse Fibre Reinforced Expansive Soil. , 2019, , .		12
34	Impacts of Drying-Wetting and Loading-Unloading Cycles on Small Strain Shear Modulus of Unsaturated Soils. International Journal of Geomechanics, 2019, 19, .	2.7	20
35	Effect of constructing twin tunnels under a building supported by pile foundations in the Sydney central business district. Underground Space (China), 2019, 4, 261-276.	7.5	19
36	Mixed hardening hyper-viscoplasticity model for soils incorporating non-linear creep rate " H-creep model. International Journal of Plasticity, 2019, 120, 88-114.	8.8	14

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37	Strength Characteristics of Lime and Bottom Ash Reinforced Expansive Soils. , 2019, , .		1
38	Comparison of rectangular and circular bored twin tunnels in weak ground. Underground Space (China), 2019, 4, 328-339.	7.5	22
39	Experimental Investigation on the Compaction and Compressible Properties of Expansive Soil Reinforced with Bagasse Fibre and Lime. Sustainable Civil Infrastructures, 2019, , 64-78.	0.2	10
40	Combined Effects of Bottom Ash and Lime on Behaviour of Expansive Soil. Sustainable Civil Infrastructures, 2019, , 28-44.	0.2	1
41	A numerical comparison of installation sequences of plain concrete rigid inclusions. Computers and Geotechnics, 2019, 105, 1-26.	4.7	9
42	Evaluation of Reaction Piles Effect on Test Piles in Static Load Testing Using Three-Dimensional Numerical Analysis. , 2019, , 68-80.		1
43	Impact of Liquid Whey Waste on Strength and Stiffness of Cement Treated Clay. Sustainable Civil Infrastructures, 2019, , 1-10.	0.2	1
44	Impact of Initial In-Situ Stress Field on Soil Response During Cavity Expansion Using Discrete Element Simulation. Sustainable Civil Infrastructures, 2019, , 1-10.	0.2	0
45	Estimation of maximum scour depths at upstream of front and rear piers for two in-line circular columns. Environmental Fluid Mechanics, 2018, 18, 537-550.	1.6	37
46	Analytical Solution to One-Dimensional Consolidation in Unsaturated Soil Deposit Incorporating Time-Dependent Diurnal Temperature Variation. International Journal of Geomechanics, 2018, 18, .	2.7	13
47	Experimental study of flow structure around two in-line bridge piers. Water Management, 2018, 171, 311-327.	1.2	22
48	Evaluation of Swelling Behaviour and Soil Water Characteristic Curve of Bagasse Fibre and Lime Stabilised Expansive Soil. , 2018, , .		7
49	Investigating Effects of Fracture Aperture and Orientation on the Behaviour of Weak Rock Using Discrete Element Method. , 2018, , 74-81.		0
50	Protecting bridge piers against local scour using a flow-diversion structure. Water Management, 2018, 171, 271-280.	1.2	4
51	Influence of particle contact models on soil response of poorly graded sand during cavity expansion in discrete element simulation. Journal of Rock Mechanics and Geotechnical Engineering, 2018, 10, 1154-1170.	8.1	16
52	Enhancing the Strength Characteristics of Expansive Soil Using Bagasse Fibre. Springer Series in Geomechanics and Geoengineering, 2018, , 792-796.	0.1	9
53	Investigating Effects of Particle Scaling for Cavity Expansion Simulation Using Discrete Element Method. , 2018, , 938-946.		1
54	Numerical Analysis on the Performance of Fibre Reinforced Load Transfer Platform and Deep Mixing Columns Supported Embankments. Sustainable Civil Infrastructures, 2018, , 157-169.	0.2	12

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55	Predicting the Effective Stress Parameter of Unsaturated Soils Using Adaptive Neuro-Fuzzy Inference System. <i>Scientia Iranica</i> , 2018, .	0.4	2
56	Development of a Constitutive Model to Predict the Behavior of Cement-Treated Clay during Cementation Degradation: C3 Model. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	36
57	Analytical study for double-layer geosynthetic reinforced load transfer platform on column improved soft soil. <i>Geotextiles and Geomembranes</i> , 2017, 45, 508-536.	4.6	34
58	Analytical Solution to Analyze LTP on Column-Improved Soft Soil Considering Soil Nonlinearity. <i>International Journal of Geomechanics</i> , 2017, 17, 04016082.	2.7	13
59	Numerical optimization applying trust-region reflective least squares algorithm with constraints to optimize the non-linear creep parameters of soft soil. <i>Applied Mathematical Modelling</i> , 2017, 41, 236-256.	4.2	59
60	Environmental geotechnics challenges in Australia. <i>Environmental Geotechnics</i> , 2016, 3, 2-3.	2.3	1
61	Assessment of the Elastic-Viscoplastic Behavior of Soft Soils Improved with Vertical Drains Capturing Reduced Shear Strength of a Disturbed Zone. <i>International Journal of Geomechanics</i> , 2016, 16, .	2.7	31
62	Review on Thermo-mechanical Approach in the Modelling of Geo-materials Incorporating Non-associated Flow Rules. <i>Procedia Engineering</i> , 2016, 143, 331-338.	1.2	0
63	Parametric Study of Applied Stresses on Infiltration Modular Cells Installed under Roads. <i>Procedia Engineering</i> , 2016, 143, 1325-1332.	1.2	3
64	A Novel Model to Simulate the Behaviour of Cement-Treated Clay under Compression and Shear. , 2016, , .		1
65	Bridge Pile Response to Lateral Soil Movement Induced by Installation of Controlled Modulus Columns. <i>Procedia Engineering</i> , 2016, 143, 475-482.	1.2	4
66	Predicting the Behaviour of Fibre Reinforced Cement Treated Clay. <i>Procedia Engineering</i> , 2016, 143, 153-160.	1.2	11
67	Numerical Assessment of Fibre Inclusion in a Load Transfer Platform for Pile-Supported Embankments over Soft Soil. , 2016, , .		14
68	Remediation of Expansive Soils Using Agricultural Waste Bagasse Ash. <i>Procedia Engineering</i> , 2016, 143, 1368-1375.	1.2	67
69	Analysis of CMC-Supported Embankments Considering Soil Arching. , 2016, , .		3
70	Installation Effect of Controlled Modulus Columns on Nearby Existing Structures. , 2016, , .		0
71	Three-Dimensional Simulation of a Load Transfer Mechanism for Frictional and End Bearing CMC Supported Embankments on Soft Soil. , 2016, , .		3
72	Impact of Quicklime and Fly Ash on the Geotechnical Properties of Expansive Clay. , 2016, , .		2

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73	Mechanical Model to Analyse Multilayer Geosynthetic Reinforced Granular Layer in Column Supported Embankments. <i>Procedia Engineering</i> , 2016, 143, 387-394.	1.2	5
74	Comparison of Coupled Flow-deformation and Drained Analyses for Road Embankments on CMC Improved Ground. <i>Procedia Engineering</i> , 2016, 143, 462-469.	1.2	3
75	Behaviour of Expansive Soils Stabilized with Hydrated Lime and Bagasse Fibres. <i>Procedia Engineering</i> , 2016, 143, 658-665.	1.2	115
76	Enhancing mechanical performance of rubberised concrete pavements with sodium hydroxide treatment. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 813-827.	3.1	104
77	Analytical solution to axisymmetric consolidation in unsaturated soils with linearly depth-dependent initial conditions. <i>Computers and Geotechnics</i> , 2016, 74, 102-121.	4.7	62
78	Experimental and Numerical Investigations to Evaluate Two-Dimensional Modeling of Vertical Drain-Assisted Preloading. <i>International Journal of Geomechanics</i> , 2016, 16, .	2.7	29
79	The Role of Native Vegetation in Stabilizing Formation Soil for Transport Corridors. , 2015, , 591-628.		2
80	Improving Geotechnical Properties of Closed Landfills for Redevelopment Using Chemical Stabilization Techniques. , 2015, , 239-266.		1
81	Shrinkage performance of Crumb Rubber Concrete (CRC) prepared by water-soaking treatment method for rigid pavements. <i>Cement and Concrete Composites</i> , 2015, 62, 106-116.	10.7	65
82	Analyzing consolidation data to obtain elastic viscoplastic parameters of clay. <i>Geomechanics and Engineering</i> , 2015, 8, 559-594.	0.9	7
83	Influence of Chemical Stabilisation on Permeability of Municipal Solid Wastes. <i>Geotechnical and Geological Engineering</i> , 2015, 33, 455-466.	1.7	7
84	Numerical optimisation to obtain elastic viscoplastic model parameters for soft clay. <i>International Journal of Plasticity</i> , 2015, 65, 1-21.	8.8	48
85	Numerical analysis of vertical drains accelerated consolidation considering combined soil disturbance and visco-plastic behaviour. <i>Geomechanics and Engineering</i> , 2015, 8, 187-220.	0.9	6
86	ANCHORED WALL DESIGN: COMPARING THE GLOBAL AND PARTIAL FACTORS OF SAFETY INCORPORATING THE AUSTRALIAN STANDARDS. <i>International Journal of GEOMATE</i> , 2015, , .	0.3	1
87	Development of a new poly silicate ferric coagulant and its application to coagulation-membrane filtration hybrid system in wastewater treatment. <i>Desalination and Water Treatment</i> , 2014, 52, 663-669.	1.0	1
88	One-Dimensional Consolidation of Unsaturated Soil Deposit with Various Initial Conditions. , 2014, , .		2
89	Modelling Behaviour of Cemented Clay Capturing Cementation Degradation. , 2014, , .		0
90	Elastic Visco-Plastic Behaviour of Soft Soils Improved with Preloading and Vertical Drains. , 2014, , .		0

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91	Evaluating Proposed Solutions for Equivalent Plane Strain Modeling of PVD Assisted Preloading. , 2014, , .		0
92	Performance of laterally loaded piles considering soil and interface parameters. Geomechanics and Engineering, 2014, 7, 495-524.	0.9	38
93	In-depth assessment of Crumb Rubber Concrete (CRC) prepared by water-soaking treatment method for rigid pavements. Construction and Building Materials, 2014, 71, 456-471.	7.2	93
94	Modelling of unsaturated ground behaviour influenced by vegetation transpiration. Geomechanics and Geoengineering, 2014, 9, 187-207.	1.8	11
95	Trial Embankment Analysis to Predict Smear Zone Characteristics Induced by Prefabricated Vertical Drain Installation. Geotechnical and Geological Engineering, 2014, 32, 1187-1210.	1.7	16
96	A constitutive model for cemented clays capturing cementation degradation. International Journal of Plasticity, 2014, 56, 1-18.	8.8	106
97	A Parametric Study on Shoring Structures with Multi-Row Anchors in Layered Soil. , 2014, , .		0
98	Analyzing consolidation data to predict smear zone characteristics induced by vertical drain installation for soft soil improvement. Geomechanics and Engineering, 2014, 7, 105-131.	0.9	17
99	Influence of fly ash and quicklime addition on behaviour of municipal solid wastes. Journal of Soils and Sediments, 2013, 13, 1201-1212.	3.0	15
100	Stability and Deformation of Sheet Pile Walls for Protecting Riverside Structures in the Mekong River Delta. , 2013, , .		0
101	Shrinkage Properties of Soft Clay Treated with Cement and Geofibers. Geotechnical and Geological Engineering, 2013, 31, 1421-1435.	1.7	49
102	Soil creep effects on ground lateral deformation and pore water pressure under embankments. Geomechanics and Geoengineering, 2013, 8, 107-124.	1.8	42
103	Long-term Viscoplastic Behaviour of Embankments Built on Improved Soft Soil Using Vertical Drains. , 2013, , .		0
104	Small-strain properties of soft clay treated with fibre and cement. Geosynthetics International, 2013, 20, 286-300.	2.9	88
105	Stabilisation of Closed Landfill Sites by Fly Ash Using Deep Mixing Method. , 2012, , .		4
106	Assessment of Surcharging on Strength and Stiffness of Cement Treated Clays. , 2012, , .		4
107	Mechanical characteristics of soft clay treated with fibre and cement. Geosynthetics International, 2012, 19, 252-262.	2.9	123
108	Viscous Behaviour of Soft Clay and Inducing Factors. Geotechnical and Geological Engineering, 2012, 30, 1069-1083.	1.7	55

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109	Enhancement of Ballasted Rail Track Performance Using Geosynthetics. , 2011, , .		8
110	Removal of pharmaceuticals and endocrine disrupting compounds in a water recycling process using reverse osmosis systems. Separation and Purification Technology, 2011, 77, 60-67.	7.9	138
111	PERFORMANCE ANALYSIS OF REINFORCED SOIL FOUNDATION STRUCTURES WITH VERTICAL REINFORCEMENT. , 2011, , .		0
112	Bioengineering ground improvement considering root water uptake model. Ecological Engineering, 2010, 36, 222-229.	3.6	46
113	Improving Reinforced Soil Performance Incorporating Vertical Reinforcement. , 2010, , .		1
114	Parametric studies on bioengineering effects of tree root-based suction on ground behaviour. Ecological Engineering, 2009, 35, 1415-1426.	3.6	27
115	Modelling the erosion rate of chemically stabilized soil incorporating tensile force " deformation characteristics. Canadian Geotechnical Journal, 2009, 46, 57-68.	2.8	36
116	Investigating Erosional Behaviour of Chemically Stabilised Erodible Soils. , 2008, , .		8
117	A critical review on granular dam filter behaviour " from particle sizes to constriction-based design criteria. Geomechanics and Geoengineering, 2008, 3, 279-290.	1.8	13
118	Predicting the Erosion Rate of Chemically Treated Soil Using a Process Simulation Apparatus for Internal Crack Erosion. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 837-844.	3.0	89
119	Numerical and Experimental Study of Tree Influence on the Ground. , 2008, , .		0
120	Constriction-Based Retention Criterion for Granular Filter Design. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 266-276.	3.0	120
121	TSUNAMI AFFECTED COASTAL SOIL DISTURBANCE AND IMPLICATIONS ON RECONSTRUCTION WITH SPECIAL REFERENCE TO LOW-COST DWELLINGS AND RAIL TRACKS. , 2005, , .		0
122	Numerical modeling of vacuum preloading and field applications. Canadian Geotechnical Journal, 2004, 41, 1098-1110.	2.8	103
123	A Laboratory Study on Improvement of Railway Ballast using Geosynthetics. , 2004, , 617.		6
124	An effective stress based numerical model for hydro-mechanical analysis in unsaturated porous media. Computational Mechanics, 2000, 26, 174-184.	4.0	43
125	A unique relationship for $\bar{\sigma}_v$ for the determination of the shear strength of unsaturated soils. Geotechnique, 1998, 48, 681-687.	4.0	612
126	Challenges Associated with Optimisation of Blending, Mixing and Compaction Temperature for Asphalt Mixture Modified with Crumb Rubber Modifier (CRM). Applied Mechanics and Materials, 0, 256-259, 1837-1844.	0.2	5

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127	Evaluating the Bearing Capacity of a Soil Layer Overlying Rigid Substratum Using a Modified Failure Mechanism Based on Limit State Analysis. Applied Mechanics and Materials, 0, 353-356, 806-814.	0.2	0
128	Optimizing flow diversion structure as an effective pier-scour countermeasure. Journal of Hydraulic Research/De Recherches Hydrauliques, 0, , 1-14.	1.7	3
129	A trustful transition zone for high-speed rail using stone columns. Australian Journal of Civil Engineering, 0, , 1-11.	1.6	0
130	Flow Structures Around a Circular Bridge Pier with a Submerged Prism at Upstream. , 0, , .		1