

Hesham El Naggar

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

2,653
citations

186265

28
h-index

223800

46
g-index

105
all docs

105
docs citations

105
times ranked

1213
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical solution for one-dimensional nonlinear consolidation of double-layered soil with improved continuous drainage boundary. <i>European Journal of Environmental and Civil Engineering</i> , 2023, 27, 2746-2767.	2.1	17
2	Class-A prediction of three-sided reinforced concrete culverts and numerical investigation of the supporting strip footing geometry effect. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 1091-1107.	3.7	3
3	Optimization of grouting method and axial performance of pressure-grouted helical piles. <i>Canadian Geotechnical Journal</i> , 2022, 59, 702-714.	2.8	8
4	Seismic behaviour of piles in non-liquefiable and liquefiable soil. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 77-111.	4.1	15
5	Assessment of SSI effects on stiffness of single and grouped helical piles in dry sand from large shake table tests. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 3077-3116.	4.1	5
6	Analytical solution for distributed torsional low strain integrity test for pipe pile. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 47-67.	3.3	56
7	Effect of model scale on helical piles response established from shake table tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 152, 107013.	3.8	18
8	In-situ performance assessment of track superstructure on fouled railroad. <i>Transportation Geotechnics</i> , 2022, 32, 100695.	4.5	5
9	Preliminary Analysis and Instrumentation of Large-Span Three-Sided Reinforced Concrete Culverts. <i>Journal of Bridge Engineering</i> , 2022, 27, .	2.9	4
10	Seismic mitigation performance analysis of underground subway station with arc grooved roller bearings. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 153, 107082.	3.8	9
11	Upgrading seismic performance of underground frame structures based on potential failure modes. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 153, 107116.	3.8	6
12	Nonlinear analysis of single pile settlement based on stress bubble fictitious soil pile model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 1187-1204.	3.3	11
13	Characteristics of Resilient Modulus of Weathered Phyllite Subgrade during Saturation Process. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	1.5	0
14	Response of piers installed in sand near sloping ground under inclined loading. <i>Innovative Infrastructure Solutions</i> , 2022, 7, 1.	2.2	0
15	Seismic Helical Pile Response in Nonliquefiable and Liquefiable Soil. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	5
16	Fragility Analysis of Helical Piles Supporting Bridge in Different Ground Conditions. <i>Journal of Bridge Engineering</i> , 2022, 27, .	2.9	3
17	Seismic site characterization in Fraser River Delta in Metropolitan Vancouver. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 161, 107384.	3.8	7
18	Estimation of probabilistic seismic sliding displacement and pseudo-static coefficients (k_{15}) for seismic stability assessment of slopes in the southern Lower Mainland, British Columbia. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 161, 107364.	3.8	2

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19	Interstory drift ratio associated with performance objectives for shallowly buried multistory and span subway stations in inhomogeneous soil profiles. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 655-672.	4.4	25
20	Effect of ground motion characteristics on seismic fragility of subway station. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 143, 106618.	3.8	30
21	Field Monitoring and Numerical Analysis of Large-Span Three-Sided Reinforced Concrete Culvert. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, 04021008.	3.0	8
22	Global Model for High-Consistency Wood Pulp Suspensions in Corotating Twin Screw Extruders. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5548-5557.	3.7	0
23	Nonlinear consolidation of soft foundation improved by prefabricated vertical drains based on elliptical cylindrical equivalent model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 1949-1971.	3.3	16
24	Bearing capacity of power transmission tower footings near cohesionless slopes. <i>Innovative Infrastructure Solutions</i> , 2021, 6, 1.	2.2	3
25	Application of SV curves in performance based design of structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 148, 106748.	3.8	1
26	Seismic axial behaviour of pile groups in non-liquefiable and liquefiable soils. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 149, 106853.	3.8	27
27	One-dimensional consolidation of layered soils under ramp load based on continuous drainage boundary. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 738-752.	3.3	15
28	New method to calculate apparent phase velocity of open-ended pipe pile. <i>Canadian Geotechnical Journal</i> , 2020, 57, 127-138.	2.8	70
29	Damping characteristics of full-scale grouped helical piles in dense sands subjected to small and large shaking events. <i>Canadian Geotechnical Journal</i> , 2020, 57, 801-814.	2.8	11
30	Large shaking table tests of pile-supported structures in different ground conditions. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 139, 106307.	3.8	19
31	Evaluation of Seismic Soil-Structure Interaction of Full-Scale Grouped Helical Piles in Dense Sand. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	8
32	Seismic performance of pile group-structure system in liquefiable and non-liquefiable soil from large-scale shake table tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 138, 106299.	3.8	43
33	Numerical Analysis of the Deformation Performance of Monopile under Wave and Current Load. <i>Energies</i> , 2020, 13, 6431.	3.1	17
34	One-dimensional consolidation of soil under multistage load based on continuous drainage boundary. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1170-1183.	3.3	31
35	Torsional complex impedance of pipe pile considering pile installation and soil plug effect. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 131, 106010.	3.8	35
36	A novel segmental cored column for upgrading the seismic performance of underground frame structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 131, 106011.	3.8	26

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37	Material characterisation for natural fibres: compressibility, permeability and friction. Nordic Pulp and Paper Research Journal, 2020, 35, 172-184.	0.7	0
38	Data Reduction and Dynamic p-y Curves of Helical Piles from Large-Scale Shake Table Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	17
39	Lateral Performance and p-y Curves for Large-Capacity Helical Piles Installed in Clayey Glacial Deposit. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	17
40	Characterization of a jointed rock mass based on fractal geometry theory. Bulletin of Engineering Geology and the Environment, 2019, 78, 6101-6110.	3.5	14
41	Seismic performance of helical piles in dry sand from large-scale shaking table tests. Geotechnique, 2019, 69, 1071-1085.	4.0	29
42	Benefits from using two receivers for interpretation of low-strain integrity tests on pipe piles. Canadian Geotechnical Journal, 2019, 56, 1433-1447.	2.8	33
43	Hybrid Foundation System for Offshore Wind Turbine. Geotechnical and Geological Engineering, 2018, 36, 2921-2937.	1.7	12
44	Effect of cyclic loading on the compressive strength of soil stabilized with bassanite-tire mixture. Journal of Material Cycles and Waste Management, 2018, 20, 525-532.	3.0	7
45	Geo-structural nonlinear analysis of piles for infrastructure design. Innovative Infrastructure Solutions, 2018, 3, 1.	2.2	8
46	Analytical solution for one-dimensional consolidation of double-layered soil with exponentially time-growing drainage boundary. International Journal of Distributed Sensor Networks, 2018, 14, 155014771880671.	2.2	14
47	Nonlinear Regression Analysis for Side Resistance of Socketed Piles in Rock Formations of Dubai Area. Geotechnical and Geological Engineering, 2018, 36, 3857-3869.	1.7	5
48	Vulnerability of Buried Energy Pipelines Subject to Earthquake-Triggered Transverse Landslides in Permafrost Thawing Slopes. Journal of Pipeline Systems Engineering and Practice, 2018, 9, .	1.6	13
49	Lateral Vibration of Helical and Driven Steel Piles Installed in Clayey Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	21
50	Numerical Investigation of Axial Monotonic Performance of Reinforced Helical Pulldown Micropiles. International Journal of Geomechanics, 2018, 18, .	2.7	10
51	Analytical Approach for Seismic Performance of Extended Pile-Shafts. Journal of Bridge Engineering, 2018, 23, .	2.9	14
52	Axial Performance of Helical Tapered Piles in Sand. Geotechnical and Geological Engineering, 2017, 35, 1549-1576.	1.7	29
53	Large-diameter helical pile capacity - torque correlations. Canadian Geotechnical Journal, 2017, 54, 968-986.	2.8	28
54	Mono- and co-substrate utilization kinetics using mono- and co-culture of Clostridium beijerinckii and Clostridium saccharoperbutylacetonicum. Bioresource Technology, 2017, 241, 152-160.	9.6	21

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55	Evaluation of Piled Raft Performance Using a Verified 3D Nonlinear Numerical Model. Geotechnical and Geological Engineering, 2017, 35, 1831-1845.	1.7	17
56	Closure to "Numerical Modeling of Soil and Surface Foundation Pressure Effects on Buried Box Culvert Behavior" by Osama Abuhajar, Hesham El Naggar, and Tim Newson. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	2
57	Cyclic lateral performance of helical tapered piles in silty sand. DFI Journal, 2016, 10, 111-124.	0.2	13
58	Cyclic axial performance of helical-tapered piles in sand. DFI Journal, 2016, 10, 98-110.	0.2	9
59	Lateral Earth Pressure on Cylindrical Concrete Shafts. Geotechnical and Geological Engineering, 2016, 34, 1199-1214.	1.7	1
60	The near-field method: a modified equivalent linear method for dynamic soil-structure interaction analysis. Part II: verification and example application. Bulletin of Earthquake Engineering, 2016, 14, 2385-2404.	4.1	7
61	Effects of installation disturbance on behavior of multi-helix piles in structured clays. DFI Journal, 2015, 9, 80-91.	0.2	38
62	Experimental and numerical investigations of the effect of buried box culverts on earthquake excitation. Soil Dynamics and Earthquake Engineering, 2015, 79, 130-148.	3.8	65
63	Axial compressive response of large-capacity helical and driven steel piles in cohesive soil. Canadian Geotechnical Journal, 2015, 52, 224-243.	2.8	59
64	Generalized cyclic p-y curve modeling for analysis of laterally loaded piles. Soil Dynamics and Earthquake Engineering, 2014, 63, 138-149.	3.8	53
65	Performance of Foundations in Sabkha Soil: Numerical Investigation. Geotechnical and Geological Engineering, 2014, 32, 637-656.	1.7	20
66	Axial compressive capacity of helical piles from field tests and numerical study. Canadian Geotechnical Journal, 2013, 50, 1191-1203.	2.8	108
67	Seismic soil-structure interaction in buildings on stiff clay with embedded basement stories. Canadian Geotechnical Journal, 2013, 50, 858-873.	2.8	26
68	Investigation of Induced Trench Method Using a Full Scale Test Embankment. Geotechnical and Geological Engineering, 2013, 31, 557-568.	1.7	20
69	Dynamic response of vertically loaded helical and driven steel piles. Canadian Geotechnical Journal, 2013, 50, 521-535.	2.8	59
70	THE NUMERICAL AND EMPIRICAL EVALUATION OF STRUCTURAL PERFORMANCE OF ELEVATED TANKS CONSIDERING SOIL-STRUCTURE INTERACTION EFFECTS. Journal of Earthquake and Tsunami, 2012, 06, 1250008.	1.3	7
71	Expansion of Cavities Embedded in Cohesionless Elastoplastic Half-Space and Subjected to Anisotropic Stress Field. Geotechnical and Geological Engineering, 2012, 30, 1183-1195.	1.7	6
72	Physical and Numerical Modeling of Seismic Soil-Structure Interaction in Layered Soils. Geotechnical and Geological Engineering, 2012, 30, 331-342.	1.7	21

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73	Biological Hydrogen Production from Corn-Syrup Waste Using a Novel System. <i>Energies</i> , 2009, 2, 445-455.	3.1	30
74	Seismic Vulnerability Assessment of Modular Steel Buildings. <i>Journal of Earthquake Engineering</i> , 2009, 13, 1065-1088.	2.5	96
75	Nonlinear Analysis of Local Site Effects on Seismic Ground Response in the Bam Earthquake. <i>Geotechnical and Geological Engineering</i> , 2008, 26, 91-100.	1.7	35
76	Dynamic Properties of Soft Clay and Loose Sand from Seismic Centrifuge Tests. <i>Geotechnical and Geological Engineering</i> , 2008, 26, 593-602.	1.7	12
77	An investigation into the Winkler modeling of the cyclic response of rigid footings. <i>Soil Dynamics and Earthquake Engineering</i> , 2008, 28, 44-57.	3.8	72
78	Neural Network Based Attenuation of Strong Motion Peaks in Europe. <i>Journal of Earthquake Engineering</i> , 2008, 12, 663-680.	2.5	47
79	Numerical Modeling of Seismic Response of Rigid Foundation on Soft Soil. <i>International Journal of Geomechanics</i> , 2008, 8, 336-346.	2.7	135
80	A numerical study into lateral cyclic nonlinear soil-pile response. <i>Canadian Geotechnical Journal</i> , 2008, 45, 1268-1281.	2.8	60
81	Seismic response of sands in centrifuge tests. <i>Canadian Geotechnical Journal</i> , 2008, 45, 470-483.	2.8	13
82	Axial testing and numerical modeling of square shaft helical piles under compressive and tensile loading. <i>Canadian Geotechnical Journal</i> , 2008, 45, 1142-1155.	2.8	152
83	Generalized dynamic Winkler model for nonlinear soil-structure interaction analysis. <i>Canadian Geotechnical Journal</i> , 2008, 45, 560-573.	2.8	92
84	Seismic Overstrength in Braced Frames of Modular Steel Buildings. <i>Journal of Earthquake Engineering</i> , 2008, 13, 1-21.	2.5	81
85	On the performance of SCF in seismic isolation of the interior equipment of buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 1581-1604.	4.4	35
86	Collapse hazard zonation of qanats in greater Tehran area. <i>Geotechnical and Geological Engineering</i> , 2007, 25, 327-338.	1.7	8
87	Centrifuge modeling of seismic response of layered soft clay. <i>Bulletin of Earthquake Engineering</i> , 2007, 5, 571-589.	4.1	26
88	Effect of seabed instability on fixed offshore platforms. <i>Soil Dynamics and Earthquake Engineering</i> , 2006, 26, 1127-1142.	3.8	11
89	Simplified BNWF model for nonlinear seismic response analysis of offshore piles with nonlinear input ground motion analysis. <i>Canadian Geotechnical Journal</i> , 2005, 42, 365-380.	2.8	47
90	Three-Dimensional Nonlinear Seismic Analysis of Single Piles Using Finite Element Model: Effects of Plasticity of Soil. <i>International Journal of Geomechanics</i> , 2005, 5, 35-44.	2.7	63

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91	The 2002 Canadian Geotechnical Colloquium: The role of soil–pile interaction in foundation engineering. Canadian Geotechnical Journal, 2004, 41, 485-509.	2.8	7
92	Three-dimensional finite element nonlinear dynamic analysis of pile groups for lateral transient and seismic excitations. Canadian Geotechnical Journal, 2004, 41, 118-133.	2.8	63
93	Seismic isolation of buildings with sliding concave foundation (SCF). Earthquake Engineering and Structural Dynamics, 2003, 32, 15-29.	4.4	21
94	Response of structures supported on SCF isolation systems. Earthquake Engineering and Structural Dynamics, 2003, 32, 1555-1584.	4.4	5
95	Analytical moment–rotation curves for rigid foundations based on a Winkler model. Soil Dynamics and Earthquake Engineering, 2003, 23, 367-381.	3.8	72
96	Reliability analysis of wind response of flexibly supported tall structures. Structural Design of Tall and Special Buildings, 2003, 12, 1-20.	1.9	5
97	Design of efficient base isolation for hammers and presses. Soil Dynamics and Earthquake Engineering, 2003, 23, 127-141.	3.8	33
98	Dynamic analysis of laterally loaded pile groups in sand and clay. Canadian Geotechnical Journal, 2002, 39, 1358-1383.	2.8	33
99	Nonlinear seismic response of reinforced-concrete free-standing towers with application to TV towers on flexible foundations. Structural Design of Tall Buildings, 2002, 11, 51-72.	0.3	12
100	Lateral and cyclic responses of model piles in electrically treated clay. Proceedings of the Institution of Civil Engineers: Ground Improvement, 1998, 2, 179-188.	1.0	3
101	Construction, instrumentation and field performance of geogrid-reinforced unpaved roads. Proceedings of the Institution of Civil Engineers: Ground Improvement, 0, , 1-13.	1.0	1