

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	Axial testing and numerical modeling of square shaft helical piles under compressive and tensile loading. Canadian Geotechnical Journal, 2008, 45, 1142-1155.	2.8	152
2	Numerical Modeling of Seismic Response of Rigid Foundation on Soft Soil. International Journal of Geomechanics, 2008, 8, 336-346.	2.7	135
3	Axial compressive capacity of helical piles from field tests and numerical study. Canadian Geotechnical Journal, 2013, 50, 1191-1203.	2.8	108
4	Seismic Vulnerability Assessment of Modular Steel Buildings. Journal of Earthquake Engineering, 2009, 13, 1065-1088.	2.5	96
5	Generalized dynamic Winkler model for nonlinear soil-structure interaction analysis. Canadian Geotechnical Journal, 2008, 45, 560-573.	2.8	92
6	Seismic Overstrength in Braced Frames of Modular Steel Buildings. Journal of Earthquake Engineering, 2008, 13, 1-21.	2.5	81
7	Analytical moment-rotation curves for rigid foundations based on a Winkler model. Soil Dynamics and Earthquake Engineering, 2003, 23, 367-381.	3.8	72
8	An investigation into the Winkler modeling of the cyclic response of rigid footings. Soil Dynamics and Earthquake Engineering, 2008, 28, 44-57.	3.8	72
9	New method to calculate apparent phase velocity of open-ended pipe pile. Canadian Geotechnical Journal, 2020, 57, 127-138.	2.8	70
10	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
11	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
12	Three-Dimensional Nonlinear Seismic Analysis of Single Piles Using Finite Element Model: Effects of Plasticity of Soil. International Journal of Geomechanics, 2005, 5, 35-44.	2.7	63
13	A numerical study into lateral cyclic nonlinear soil-pile response. Canadian Geotechnical Journal, 2008, 45, 1268-1281.	2.8	60
14	Dynamic response of vertically loaded helical and driven steel piles. Canadian Geotechnical Journal, 2013, 50, 521-535.	2.8	59
15	Axial compressive response of large-capacity helical and driven steel piles in cohesive soil. Canadian Geotechnical Journal, 2015, 52, 224-243.	2.8	59
16	Analytical solution for distributed torsional low strain integrity test for pipe pile. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 47-67.	3.3	56
17	Generalized cyclic p-y curve modeling for analysis of laterally loaded piles. Soil Dynamics and Earthquake Engineering, 2014, 63, 138-149.	3.8	53
18	Simplified BNWF model for nonlinear seismic response analysis of offshore piles with nonlinear input ground motion analysis. Canadian Geotechnical Journal, 2005, 42, 365-380.	2.8	47

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19	Neural Network Based Attenuation of Strong Motion Peaks in Europe. <i>Journal of Earthquake Engineering</i> , 2008, 12, 663-680.	2.5	47
20	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
21	Effects of installation disturbance on behavior of multi-helix piles in structured clays. <i>DFI Journal</i> , 2015, 9, 80-91.	0.2	38
22	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
23	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
24	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
25	Dynamic analysis of laterally loaded pile groups in sand and clay. <i>Canadian Geotechnical Journal</i> , 2002, 39, 1358-1383.	2.8	33
26	Design of efficient base isolation for hammers and presses. <i>Soil Dynamics and Earthquake Engineering</i> , 2003, 23, 127-141.	3.8	33
27	Benefits from using two receivers for interpretation of low-strain integrity tests on pipe piles. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1433-1447.	2.8	33
28	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
29	Biological Hydrogen Production from Corn-Syrup Waste Using a Novel System. <i>Energies</i> , 2009, 2, 445-455.	3.1	30
30	Effect of ground motion characteristics on seismic fragility of subway station. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 143, 106618.	3.8	30
31	Axial Performance of Helical Tapered Piles in Sand. <i>Geotechnical and Geological Engineering</i> , 2017, 35, 1549-1576.	1.7	29
32	Seismic performance of helical piles in dry sand from large-scale shaking table tests. <i>Geotechnique</i> , 2019, 69, 1071-1085.	4.0	29
33	Large-diameter helical pile capacity – torque correlations. <i>Canadian Geotechnical Journal</i> , 2017, 54, 968-986.	2.8	28
34	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
35	Centrifuge modeling of seismic response of layered soft clay. <i>Bulletin of Earthquake Engineering</i> , 2007, 5, 571-589.	4.1	26
36	Seismic soil-structure interaction in buildings on stiff clay with embedded basement stories. <i>Canadian Geotechnical Journal</i> , 2013, 50, 858-873.	2.8	26

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37	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
38	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
39	Seismic isolation of buildings with sliding concave foundation (SCF). <i>Earthquake Engineering and Structural Dynamics</i> , 2003, 32, 15-29.	4.4	21
40	Physical and Numerical Modeling of Seismic Soil-Structure Interaction in Layered Soils. <i>Geotechnical and Geological Engineering</i> , 2012, 30, 331-342.	1.7	21
41	Mono- and co-substrate utilization kinetics using mono- and co-culture of <i>Clostridium beijerinckii</i> and <i>Clostridium saccharoperbutylacetonicum</i> . <i>Bioresource Technology</i> , 2017, 241, 152-160.	9.6	21
42	Lateral Vibration of Helical and Driven Steel Piles Installed in Clayey Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	21
43	Investigation of Induced Trench Method Using a Full Scale Test Embankment. <i>Geotechnical and Geological Engineering</i> , 2013, 31, 557-568.	1.7	20
44	Performance of Foundations in Sabkha Soil: Numerical Investigation. <i>Geotechnical and Geological Engineering</i> , 2014, 32, 637-656.	1.7	20
45	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
46	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
47	Evaluation of Piled Raft Performance Using a Verified 3D Nonlinear Numerical Model. <i>Geotechnical and Geological Engineering</i> , 2017, 35, 1831-1845.	1.7	17
48	Data Reduction and Dynamic p-y Curves of Helical Piles from Large-Scale Shake Table Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	17
49	Lateral Performance and p-y Curves for Large-Capacity Helical Piles Installed in Clayey Glacial Deposit. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	17
50	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
51	Numerical Analysis of the Deformation Performance of Monopile under Wave and Current Load. <i>Energies</i> , 2020, 13, 6431.	3.1	17
52	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
53	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
54	Seismic behaviour of piles in non-liquefiable and liquefiable soil. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 77-111.	4.1	15

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55	Analytical solution for one-dimensional consolidation of double-layered soil with exponentially time-growing drainage boundary. <i>International Journal of Distributed Sensor Networks</i> , 2018, 14, 155014771880671.	2.2	14
56	Analytical Approach for Seismic Performance of Extended Pile-Shafts. <i>Journal of Bridge Engineering</i> , 2018, 23, .	2.9	14
57	Characterization of a jointed rock mass based on fractal geometry theory. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 6101-6110.	3.5	14
58	Seismic response of sands in centrifuge tests. <i>Canadian Geotechnical Journal</i> , 2008, 45, 470-483.	2.8	13
59	Cyclic lateral performance of helical tapered piles in silty sand. <i>DFI Journal</i> , 2016, 10, 111-124.	0.2	13
60	Vulnerability of Buried Energy Pipelines Subject to Earthquake-Triggered Transverse Landslides in Permafrost Thawing Slopes. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018, 9, .	1.6	13
61	Nonlinear seismic response of reinforced-concrete free-standing towers with application to TV towers on flexible foundations. <i>Structural Design of Tall Buildings</i> , 2002, 11, 51-72.	0.3	12
62	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
63	Hybrid Foundation System for Offshore Wind Turbine. <i>Geotechnical and Geological Engineering</i> , 2018, 36, 2921-2937.	1.7	12
64	Effect of seabed instability on fixed offshore platforms. <i>Soil Dynamics and Earthquake Engineering</i> , 2006, 26, 1127-1142.	3.8	11
65	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
66	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
67	Numerical Investigation of Axial Monotonic Performance of Reinforced Helical Pulldown Micropiles. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	10
68	Cyclic axial performance of helical-tapered piles in sand. <i>DFI Journal</i> , 2016, 10, 98-110.	0.2	9
69	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
70	Collapse hazard zonation of qanats in greater Tehran area. <i>Geotechnical and Geological Engineering</i> , 2007, 25, 327-338.	1.7	8
71	Geo-structural nonlinear analysis of piles for infrastructure design. <i>Innovative Infrastructure Solutions</i> , 2018, 3, 1.	2.2	8
72	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

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73	Field Monitoring and Numerical Analysis of Large-Span Three-Sided Reinforced Concrete Culvert. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, 04021008.	3.0	8
74	Optimization of grouting method and axial performance of pressure-grouted helical piles. Canadian Geotechnical Journal, 2022, 59, 702-714.	2.8	8
75	The 2002 Canadian Geotechnical Colloquium: The role of soil–pile interaction in foundation engineering. Canadian Geotechnical Journal, 2004, 41, 485-509.	2.8	7
76	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
77	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
78	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
79	Seismic site characterization in Fraser River Delta in Metropolitan Vancouver. Soil Dynamics and Earthquake Engineering, 2022, 161, 107384.	3.8	7
80	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
81	Upgrading seismic performance of underground frame structures based on potential failure modes. Soil Dynamics and Earthquake Engineering, 2022, 153, 107116.	3.8	6
82	Response of structures supported on SCF isolation systems. Earthquake Engineering and Structural Dynamics, 2003, 32, 1555-1584.	4.4	5
83	Reliability analysis of wind response of flexibly supported tall structures. Structural Design of Tall and Special Buildings, 2003, 12, 1-20.	1.9	5
84	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
85	Assessment of SSI effects on stiffness of single and grouped helical piles in dry sand from large shake table tests. Bulletin of Earthquake Engineering, 2022, 20, 3077-3116.	4.1	5
86	In-situ performance assessment of track superstructure on fouled railroad. Transportation Geotechnics, 2022, 32, 100695.	4.5	5
87	Seismic Helical Pile Response in Nonliquefiable and Liquefiable Soil. International Journal of Geomechanics, 2022, 22, .	2.7	5
88	Preliminary Analysis and Instrumentation of Large-Span Three-Sided Reinforced Concrete Culverts. Journal of Bridge Engineering, 2022, 27, .	2.9	4
89	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
90	Bearing capacity of power transmission tower footings near cohesionless slopes. Innovative Infrastructure Solutions, 2021, 6, 1.	2.2	3

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91	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
92	Fragility Analysis of Helical Piles Supporting Bridge in Different Ground Conditions. <i>Journal of Bridge Engineering</i> , 2022, 27, .	2.9	3
93	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. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	3.0	2
94	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
95	Lateral Earth Pressure on Cylindrical Concrete Shafts. <i>Geotechnical and Geological Engineering</i> , 2016, 34, 1199-1214.	1.7	1
96	Construction, instrumentation and field performance of geogrid-reinforced unpaved roads. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 0, , 1-13.	1.0	1
97	Application of SV curves in performance based design of structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 148, 106748.	3.8	1
98	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
99	Material characterisation for natural fibres: compressibility, permeability and friction. <i>Nordic Pulp and Paper Research Journal</i> , 2020, 35, 172-184.	0.7	0
100	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
101	Response of piers installed in sand near sloping ground under inclined loading. <i>Innovative Infrastructure Solutions</i> , 2022, 7, 1.	2.2	0