Ahmed Elgamal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124 papers	3,159 citations	31 h-index	53 g-index
137 ext. papers	3,781 ext. citations	2.9 avg, IF	5.25 L-index

#	Paper	IF	Citations
124	Seismic response of the Eureka Channel Bridge-Foundation system. *Soil Dynamics and Earthquake Engineering*, **2022**, 152, 107015	3.5	
123	Seismic response of helical pile groups from shake table experiments. *Soil Dynamics and Earthquake Engineering*, **2022**, 152, 107008	3.5	2
122	Shake Table Testing: A High-Resolution Vertical Accelerometer Array for Tracking Shear Wave Velocity. *Geotechnical Testing Journal*, **2021**, 44, 20190066	1.3	2
121	Liquefaction-induced lateral load on pile group of wharf system in a sloping stratum: A centrifuge shake-table investigation. *Ocean Engineering*, **2021**, 242, 110119	3.9	2
120	Asymmetric input motion for accumulation of lateral ground deformation in laminar container shake table testing. *Canadian Geotechnical Journal*, **2021**, 58, 210-223	3.2	
119	Large-Scale Shake Table Tests on a Shallow Foundation in Liquefiable Soils. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2021**, 147, 04020152	3.4	3
118	Seismic performance evaluation of a pile-supported wharf system at two seismic hazard levels. *Ocean Engineering*, **2021**, 219, 108333	3.9	2
117	Nonlinear Seismic Response of Ground-Structure Systems: Developments and Challenges. *Lecture Notes in Civil Engineering*, **2021**, 46-61	0.3	
116	An experimental evaluation of helical piles as a liquefaction-induced building settlement mitigation measure. *Soil Dynamics and Earthquake Engineering*, **2021**, 151, 106994	3.5	1
115	Three-Dimensional Bridge-Ground Liquefaction-Induced Deformations. *Lecture Notes in Civil Engineering*, **2021**, 645-652	0.3	
114	Three-Dimensional Seismic Response of a Large Embedded Structure and Induced Earth Pressure. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2020**, 146, 04020025	3.4	1
113	Three-Dimensional Modeling of Strain-Softening Soil Response for Seismic-Loading Applications. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2020**, 146, 04020053	3.4	4
112	Numerical Simulations of LEAP Dynamic Centrifuge Model Tests for Response of Liquefiable Sloping Ground **2020**, 521-544		1
111	Seismic performance assessment of a pile-supported wharf retrofitted with different slope strengthening strategies. *Soil Dynamics and Earthquake Engineering*, **2020**, 129, 105903	3.5	4
110	Aspects of bridge-ground seismic response and liquefaction-induced deformations. *Earthquake Engineering and Structural Dynamics*, **2020**, 49, 375-393	4	6
109	Evaluation of Seismic Soil-Structure Interaction of Full-Scale Grouped Helical Piles in Dense Sand. *International Journal of Geomechanics*, **2020**, 20, 04020228	3.1	5
108	Numerical simulations of LEAP centrifuge tests for seismic response of liquefiable sloping ground. *Soil Dynamics and Earthquake Engineering*, **2020**, 139, 106378	3.5	3

107	Damping characteristics of full-scale grouped helical piles in dense sands subjected to small and large shaking events. *Canadian Geotechnical Journal*, **2020**, 57, 801-814	3.2	7
106	In-situ Ambient Vibration Study of a 900-kw Wind Turbine. *Journal of Earthquake Engineering*, **2019**, 1-22	1.8	1
105	Seismic fragility analysis of pile-supported wharves with the influence of soil permeability. *Soil Dynamics and Earthquake Engineering*, **2019**, 122, 211-227	3.5	17
104	Large Scale Liquefaction-Induced Lateral Spreading Shake Table Testing at the University of California San Diego **2019**,		1
103	Using Stone Columns to Mitigate Lateral Deformation in Uniform and Stratified Liquefiable Soil Strata. *International Journal of Geomechanics*, **2019**, 19, 04019026	3.1	12
102	Pile and Pile-Group Response to Liquefaction-Induced Lateral Spreading in Four Large-Scale Shake-Table Experiments. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2019**, 145, 04019080	3.4	31
101	Large Scale Geotechnical Shake Table Testing at the University of California San Diego. *Sustainable Civil Infrastructures*, **2019**, 101-113	0.2	0
100	Seismic performance of helical piles in dry sand from large-scale shaking table tests. *Geotechnique*, **2019**, 69, 1071-1085	3.4	14
99	Response of A 850 KW Wind Turbine Including Soil-Structure Interaction During Seismic Excitation. *Sustainable Civil Infrastructures*, **2019**, 114-125	0.2	
98	Assessment of the Samoa Channel Bridge-foundation seismic response. *Soil Dynamics and Earthquake Engineering*, **2018**, 108, 150-159	3.5	2
97	A 3D model for earthquake-induced liquefaction triggering and post-liquefaction response. *Soil Dynamics and Earthquake Engineering*, **2018**, 110, 43-52	3.5	33
96	Settlement Induced during CFA Pile Installation in Egyptian Nile Valley Region: Case Study **2018**,		1
95	PRENOLIN: International Benchmark on 1D Nonlinear Site-Response Analysis Validation Phase Exercise. *Bulletin of the Seismological Society of America*, **2018**,	2.3	18
94	Lateral spreading near deep foundations and influence of soil permeability. *Canadian Geotechnical Journal*, **2017**, 54, 846-861	3.2	9
93	Seismic performance of a pile-supported wharf: Three-dimensional finite element simulation. *Soil Dynamics and Earthquake Engineering*, **2017**, 95, 167-179	3.5	43
92	Recorded seismic response of the Samoa Channel Bridge-foundation system and adjacent downhole array. *Soil Dynamics and Earthquake Engineering*, **2017**, 92, 358-376	3.5	6
91	Sustainability Metrics for Performance-Based Seismic Bridge Response. *Journal of Structural Engineering*, **2016**, 142,	3	10
90	BIM-based Damage Estimation of Buildings under Earthquake Loading Condition. *Procedia Engineering*, **2016**, 145, 1051-1058		26

89	Dense Granular Columns in Liquefiable Ground. I: Shear Reinforcement and Cyclic Stress Ratio Reduction. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2016**, 142, 04016023	3.4	27
88	Dense Granular Columns in Liquefiable Ground. II: Effects on Deformations. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2016**, 142, 04016024	3.4	16
87	International Benchmark on Numerical Simulations for 1D, Nonlinear Site Response (PRENOLIN): Verification Phase Based on Canonical Cases. *Bulletin of the Seismological Society of America*, **2016**, 106, 2112-2135	2.3	68
86	Numerical study on ground improvement for liquefaction mitigation using stone columns encased with geosynthetics. *Geotextiles and Geomembranes*, **2015**, 43, 190-195	5.2	36
85	Response Spectra at Liquefaction Sites during Shallow Crustal Earthquakes. *Earthquake Spectra*, **2015**, 31, 2325-2349	3.4	10
84	Shake table lateral earth pressure testing with dense c-? backfill. *Soil Dynamics and Earthquake Engineering*, **2015**, 71, 13-26	3.5	25
83	Flexural Tests and Associated Study of a Full-Scale 65-kW Wind Turbine Tower. *Journal of Structural Engineering*, **2014**, 140, 04013110	3	13
82	Full-Scale Seismic Test of MSE Retaining Wall at UCSD **2014**,		4
81	Development of web-based science portal for large-scale computing collaboration in earthquake engineering. *Concurrency Computation Practice and Experience*, **2014**, 26, 2907-2916	1.4	1
80	Shake table testing and numerical simulation of a utility-scale wind turbine including operational effects. *Wind Energy*, **2014**, 17, 997-1016	3.4	39
79	Numerical Study of Shear Stress Distribution for Discrete Columns in Liquefiable Soils. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2014**, 140, 04013034	3.4	40
78	Large Soil Confinement Box for Seismic Performance Testing of Geo-Structures. *Geotechnical Testing Journal*, **2014**, 38, 20140034	1.3	2
77	Seismic Response of a Large-Scale Highway Interchange System. *Geotechnical, Geological and Earthquake Engineering*, **2014**, 223-240	0.2	1
76	Lateral Load on a Large Pile Group: A 3D Finite Element Model **2013**,		1
75	Substructure Vibration NARX Neural Network Approach for Statistical Damage Inference. *Journal of Engineering Mechanics - ASCE*, **2013**, 139, 737-747	2.4	31
74	Design of DSM Grids for Liquefaction Remediation. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2013**, 139, 1923-1933	3.4	10
73	Seismic Testing Program for Large-Scale MSE Retaining Walls at UCSD **2013**,		1
72	Shear Stress-Strain Curves Based on the G/G max Logic: A Procedure for Strength Compatibility **2013**,		6

71	Centrifuge and Large-Scale Modeling of Seismic Pore Pressures in Sands: Cyclic Strain Interpretation. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2013**, 139, 1215-1234	3.4	44
70	Performance-based earthquake assessment of bridge systems including ground-foundation interaction. *Soil Dynamics and Earthquake Engineering*, **2012**, 42, 184-196	3.5	27
69	A Framework for Performance-Based Earthquake Engineering of Bridge-Abutment Systems **2012**,		5
68	Shake Table Testing of a Utility-Scale Wind Turbine. *Journal of Engineering Mechanics - ASCE*, **2012**, 138, 900-909	2.4	20
67	Effect of DSM Grids on Shear Stress Distribution in Liquefiable Soil **2012**,		4
66	Effect of Discrete Columns on Shear Stress Distribution in Liquefiable Soil **2012**,		6
65	Full Scale Testing and Simulation of Seismic Bridge Abutment-Backfill Interaction. *Geotechnical, Geological and Earthquake Engineering*, **2012**, 109-127	0.2	1
64	Mechanics of Lateral Spreading Observed in a Full-Scale Shake Test. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2011**, 137, 115-129	3.4	31
63	Large-Scale Numerical Modeling in Geotechnical Earthquake Engineering. *International Journal of Geomechanics*, **2011**, 11, 490-503	3.1	44
62	Measuring Global Response of a Wind Turbine to Simulated Earthquake Shaking Assisted by Point Tracking Videogrammetry **2011**,		2
61	Visualizing 3D Earthquake Simulation Data. *Computing in Science and Engineering*, **2011**, 13, 52-63	1.5	3
60	Consistent tangent moduli for multi-yield-surface J2 plasticity model. *Computational Mechanics*, **2011**, 48, 97-120	4	19
59	Pushover Analysis of a 53 m High Wind Turbine Tower. *Advanced Science Letters*, **2011**, 4, 656-662	0.1	7
58	Large-Scale Passive Earth Pressure Load-Displacement Tests and Numerical Simulation. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2010**, 136, 1634-1643	3.4	43
57	Sensor Network for Structural Health Monitoring of a Highway Bridge. *Journal of Computing in Civil Engineering*, **2010**, 24, 11-24	5	70
56	Micromechanical Aspects of Liquefaction-Induced Lateral Spreading. *International Journal of Geomechanics*, **2010**, 10, 190-201	3.1	35
55	Recent trends in geotechnical earthquake engineering experimentation **2010**, 23-44		
54	A Framework for 3D Finite Element Analysis of Lateral Pile System Response **2009**,		9

53	System Identification of Alfred Zampa Memorial Bridge Using Dynamic Field Test Data. *Journal of Structural Engineering*, **2009**, 135, 54-66	3	62
52	Finite element response sensitivity analysis of multi-yield-surface J2 plasticity model by direct differentiation method. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 2272-2285	5.7	30
51	Study of Time-Domain Techniques for Modal Parameter Identification of a Long Suspension Bridge with Dense Sensor Arrays. *Journal of Engineering Mechanics - ASCE*, **2009**, 135, 669-683	2.4	30
50	Liquefaction-Induced Lateral Load on Pile in a Medium Dr Sand Layer. *Journal of Earthquake Engineering*, **2009**, 13, 916-938	1.8	35
49	Mitigation of Liquefaction-Induced Lateral Deformation in a Sloping Stratum: Three-dimensional Numerical Simulation. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 1672-1682	3.4	89
48	Experimental and Numerical Seismic Response of a 65 kW Wind Turbine. *Journal of Earthquake Engineering*, **2009**, 13, 1172-1190	1.8	72
47	Laminar Box System for 1-g Physical Modeling of Liquefaction and Lateral Spreading. *Geotechnical Testing Journal*, **2009**, 32, 102154	1.3	3
46	Modal Identification Study of Vincent Thomas Bridge Using Simulated Wind-Induced Ambient Vibration Data. *Computer-Aided Civil and Infrastructure Engineering*, **2008**, 23, 373-388	8.4	49
45	Three-Dimensional Seismic Response of Humboldt Bay Bridge-Foundation-Ground System. *Journal of Structural Engineering*, **2008**, 134, 1165-1176	3	134
44	Dynamic Testing of Alfred Zampa Memorial Bridge. *Journal of Structural Engineering*, **2008**, 134, 1006-1015	3	63
43	Two-Dimensional Nonlinear Earthquake Response Analysis of a Bridge-Foundation-Ground System. *Earthquake Spectra*, **2008**, 24, 343-386	3.4	86
42	Neural Networks and Principal Components Analysis for Strain-Based Vehicle Classification. *Journal of Computing in Civil Engineering*, **2008**, 22, 123-132	5	14
41	NEESit MacBook Accelerometer and Video Sensor Platform (iSeismograph) for education and research **2008**,		1
40	Multi-surface Cyclic Plasticity Sand Model with Lode Angle Effect. *Geotechnical and Geological Engineering*, **2008**, 26, 335-348	1.5	29
39	Analysis of change in dynamic properties of a frame-resistant test building. *Engineering Structures*, **2008**, 30, 183-196	4.7	16
38	Validation of a wireless traffic vibration monitoring system for the Voigt Bridge **2008**,		3
37	**2007**,		2
36	NEES IT Tools to Advance Earthquake Engineering Research and Practice **2007**, 1		2

35	A Miniature Tensiometer for Measurement of High Matric Suction **2006**, 1897		6
34	Parallel Computing for Seismic Geotechnical Applications **2006**, 1		
33	LIQUEFACTION OF OVER-CONSOLIDATED SAND: A CENTRIFUGE INVESTIGATION. *Journal of Earthquake Engineering*, **2005**, 9, 127-150	1.8	15
32	Dynamic Response of Saturated Dense Sand in Laminated Centrifuge Container. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2005**, 131, 598-609	3.4	71
31	LIQUEFACTION-INDUCED SETTLEMENT OF SHALLOW FOUNDATIONS AND REMEDIATION: 3D NUMERICAL SIMULATION. *Journal of Earthquake Engineering*, **2005**, 9, 17-45	1.8	35
30	Pilot 3D Numerical Simulation of Liquefaction and Countermeasures **2005**, 1		1
29	Large Scale Simulation and Data Analysis **2005**, 1		
28	Real-time nondestructive structural health monitoring using support vector machines and wavelets **2005**,		12
27	Webshaker: Live internet shake-table experiment for education and research. *Computer Applications in Engineering Education*, **2005**, 13, 99-110	1.6	12
26	. *Journal of Earthquake Engineering*, **2005**, 9, 17	1.8	1
25	On-Line Educational Shake Table Experiments. *Journal of Professional Issues in Engineering Education and Practice*, **2005**, 131, 41-49	0.7	7
24	FORTHCOMING SPECIAL ISSUE SEISMIC LOADING AND GROUND MODIFICATION GUEST EDITOR FOREWORD. *Journal of Earthquake Engineering*, **2005**, 9, 585-585	1.8	
23	. *Journal of Earthquake Engineering*, **2004**, 8, 663	1.8	6
22	. *Journal of Earthquake Engineering*, **2004**, 8, 545	1.8	
21	Earth Dam on Liquefiable Foundation and Remediation: Numerical Simulation of Centrifuge Experiments. *Journal of Engineering Mechanics - ASCE*, **2004**, 130, 1168-1176	2.4	30
20	Parallel finite element modeling of earthquake ground response and liquefaction. *Earthquake Engineering and Engineering Vibration*, **2004**, 3, 23-37	2	18
19	ParCYCLIC: finite element modelling of earthquake liquefaction response on parallel computers. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2004**, 28, 1207-1232	4	13
18	Mitigation of liquefaction and associated ground deformations by stone columns. *Engineering Geology*, **2004**, 72, 275-291	6	105

17	Estimating site-specific strong earthquake motions. *Soil Dynamics and Earthquake Engineering*, **2004** , 24, 199-223	3.5	10
16	A web-based platform for computer simulation of seismic ground response. *Advances in Engineering Software*, **2004**, 35, 249-259	3.6	31
15	SYSTEM IDENTIFICATION OF LANDFILL SEISMIC RESPONSE. *Journal of Earthquake Engineering*, **2004**, 8, 545-566	1.8	18
14	VERTICAL EARTHQUAKE GROUND MOTION RECORDS: AN OVERVIEW. *Journal of Earthquake Engineering*, **2004**, 8, 663-697	1.8	62
13	Simulation of Earthquake Liquefaction Response on Parallel Computers **2004**, 1		1
12	Elements of an integrated health monitoring framework **2003**, 5047, 231		5
11	Application of unconstrained optimization and sensitivity analysis to calibration of a soil constitutive model. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2003**, 27, 1277-1297	4	29
10	Stone columns as liquefaction countermeasure in non-plastic silty soils. *Soil Dynamics and Earthquake Engineering*, **2003**, 23, 571-584	3.5	123
9	Modeling of cyclic mobility in saturated cohesionless soils. *International Journal of Plasticity*, **2003**, 19, 883-905	7.6	241
8	Computational Model for Cyclic Mobility and Associated Shear Deformation. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2003**, 129, 1119-1127	3.4	255
7	Computational modeling of cyclic mobility and post-liquefaction site response. *Soil Dynamics and Earthquake Engineering*, **2002**, 22, 259-271	3.5	201
6	. *Journal of Earthquake Engineering*, **2002**, 6, 447	1.8	6
5	NUMERICAL ANALYSIS OF EMBANKMENT FOUNDATION LIQUEFACTION COUNTERMEASURES. *Journal of Earthquake Engineering*, **2002**, 6, 447-471	1.8	40
4	Influence of Permeability on Liquefaction-Induced Shear Deformation. *Journal of Engineering Mechanics - ASCE*, **2002**, 128, 720-729	2.4	95
3	Strong Earthquake Motion Estimates for the UCSB Campus, and Related Response of the Engineering 1 Building		2
2	Estimation of Seismic Load Demand for a Wind Turbine in the Time Domain: Preprint		16
1	Assessment of SSI effects on stiffness of single and grouped helical piles in dry sand from large shake table tests. *Bulletin of Earthquake Engineering*,1	3.7	1