List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3947771/publications.pdf Version: 2024-02-01

		101496	114418
129	4,438	36	63
papers	citations	h-index	g-index
137	137	137	2055
all docs	docs citations	times ranked	citing authors

AHMED FLOAMAL

#	Article	IF	CITATIONS
1	Computational Model for Cyclic Mobility and Associated Shear Deformation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 1119-1127.	1.5	358
2	Modeling of cyclic mobility in saturated cohesionless soils. International Journal of Plasticity, 2003, 19, 883-905.	4.1	333
3	Computational modeling of cyclic mobility and post-liquefaction site response. Soil Dynamics and Earthquake Engineering, 2002, 22, 259-271.	1.9	280
4	Three-Dimensional Seismic Response of Humboldt Bay Bridge-Foundation-Ground System. Journal of Structural Engineering, 2008, 134, 1165-1176.	1.7	169
5	Stone columns as liquefaction countermeasure in non-plastic silty soils. Soil Dynamics and Earthquake Engineering, 2003, 23, 571-584.	1.9	157
6	Mitigation of liquefaction and associated ground deformations by stone columns. Engineering Geology, 2004, 72, 275-291.	2.9	140
7	Influence of Permeability on Liquefaction-Induced Shear Deformation. Journal of Engineering Mechanics - ASCE, 2002, 128, 720-729.	1.6	126
8	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.	1.5	118
9	Two-Dimensional Nonlinear Earthquake Response Analysis of a Bridge-Foundation-Ground System. Earthquake Spectra, 2008, 24, 343-386.	1.6	117
10	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.	1.1	91
11	Sensor Network for Structural Health Monitoring of a Highway Bridge. Journal of Computing in Civil Engineering, 2010, 24, 11-24.	2.5	90
12	Experimental and Numerical Seismic Response of a 65 kW Wind Turbine. Journal of Earthquake Engineering, 2009, 13, 1172-1190.	1.4	89
13	Dynamic Response of Saturated Dense Sand in Laminated Centrifuge Container. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 598-609.	1.5	85
14	VERTICAL EARTHQUAKE GROUND MOTION RECORDS: AN OVERVIEW. Journal of Earthquake Engineering, 2004, 8, 663-697.	1.4	83
15	Seismic performance of a pile-supported wharf: Three-dimensional finite element simulation. Soil Dynamics and Earthquake Engineering, 2017, 95, 167-179.	1.9	75
16	Dynamic Testing of Alfred Zampa Memorial Bridge. Journal of Structural Engineering, 2008, 134, 1006-1015.	1.7	72
17	System Identification of Alfred Zampa Memorial Bridge Using Dynamic Field Test Data. Journal of Structural Engineering, 2009, 135, 54-66.	1.7	72
18	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, .	1.5	71

#	Article	IF	CITATIONS
19	A 3D model for earthquake-induced liquefaction triggering and post-liquefaction response. Soil Dynamics and Earthquake Engineering, 2018, 110, 43-52.	1.9	65
20	Large-Scale Passive Earth Pressure Load-Displacement Tests and Numerical Simulation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1634-1643.	1.5	64
21	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.	3.4	58
22	Large-Scale Numerical Modeling in Geotechnical Earthquake Engineering. International Journal of Geomechanics, 2011, 11, 490-503.	1.3	58
23	Modal Identification Study of Vincent Thomas Bridge Using Simulated Windâ€Induced Ambient Vibration Data. Computer-Aided Civil and Infrastructure Engineering, 2008, 23, 373-388.	6.3	54
24	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.	1.5	54
25	Numerical Study of Shear Stress Distribution for Discrete Columns in Liquefiable Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	54
26	NUMERICAL ANALYSIS OF EMBANKMENT FOUNDATION LIQUEFACTION COUNTERMEASURES. Journal of Earthquake Engineering, 2002, 6, 447-471.	1.4	51
27	Liquefaction-Induced Lateral Load on Pile in a Medium D <sub>r</sub> Sand Layer. Journal of Earthquake Engineering, 2009, 13, 916-938.	1.4	50
28	Numerical study on ground improvement for liquefaction mitigation using stone columns encased with geosynthetics. Geotextiles and Geomembranes, 2015, 43, 190-195.	2.3	50
29	Shake table testing and numerical simulation of a utilityâ€scale wind turbine including operational effects. Wind Energy, 2014, 17, 997-1016.	1.9	49
30	LIQUEFACTION-INDUCED SETTLEMENT OF SHALLOW FOUNDATIONS AND REMEDIATION: 3D NUMERICAL SIMULATION. Journal of Earthquake Engineering, 2005, 9, 17-45.	1.4	45
31	Mechanics of Lateral Spreading Observed in a Full-Scale Shake Test. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 115-129.	1.5	44
32	Dense Granular Columns in Liquefiable Ground. I: Shear Reinforcement and Cyclic Stress Ratio Reduction. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	44
33	Micromechanical Aspects of Liquefaction-Induced Lateral Spreading. International Journal of Geomechanics, 2010, 10, 190-201.	1.3	43
34	Multi-surface Cyclic Plasticity Sand Model with Lode Angle Effect. Geotechnical and Geological Engineering, 2008, 26, 335-348.	0.8	41
35	Substructure Vibration NARX Neural Network Approach for Statistical Damage Inference. Journal of Engineering Mechanics - ASCE, 2013, 139, 737-747.	1.6	40
36	Shake table lateral earth pressure testing with dense c-ï• backfill. Soil Dynamics and Earthquake Engineering, 2015, 71, 13-26.	1.9	38

#	Article	IF	CITATIONS
37	BIM-based Damage Estimation of Buildings under Earthquake Loading Condition. Procedia Engineering, 2016, 145, 1051-1058.	1.2	38
38	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.	1.6	37
39	Performance-based earthquake assessment of bridge systems including ground-foundation interaction. Soil Dynamics and Earthquake Engineering, 2012, 42, 184-196.	1.9	37
40	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.	1.7	35
41	Earth Dam on Liquefiable Foundation and Remediation: Numerical Simulation of Centrifuge Experiments. Journal of Engineering Mechanics - ASCE, 2004, 130, 1168-1176.	1.6	34
42	A web-based platform for computer simulation of seismic ground response. Advances in Engineering Software, 2004, 35, 249-259.	1.8	34
43	Design of DSM Grids for Liquefaction Remediation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1923-1933.	1.5	30
44	Seismic performance of helical piles in dry sand from large-scale shaking table tests. Geotechnique, 2019, 69, 1071-1085.	2.2	29
45	Parallel finite element modeling of earthquake ground response and liquefaction. Earthquake Engineering and Engineering Vibration, 2004, 3, 23-37.	1.1	27
46	Shake Table Testing of a Utility-Scale Wind Turbine. Journal of Engineering Mechanics - ASCE, 2012, 138, 900-909.	1.6	27
47	Consistent tangent moduli for multi-yield-surface J2 plasticity model. Computational Mechanics, 2011, 48, 97-120.	2.2	26
48	PRENOLIN: International Benchmark on 1D Nonlinear Siteâ€Response Analysis—Validation Phase Exercise. Bulletin of the Seismological Society of America, 2018, , .	1.1	26
49	Seismic fragility analysis of pile-supported wharves with the influence of soil permeability. Soil Dynamics and Earthquake Engineering, 2019, 122, 211-227.	1.9	26
50	Liquefaction-induced lateral load on pile group of wharf system in a sloping stratum: A centrifuge shake-table investigation. Ocean Engineering, 2021, 242, 110119.	1.9	26
51	Dense Granular Columns in Liquefiable Ground. II: Effects on Deformations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	22
52	Aspects of bridgeâ€ground seismic response and liquefactionâ€induced deformations. Earthquake Engineering and Structural Dynamics, 2020, 49, 375-393.	2.5	21
53	ParCYCLIC: finite element modelling of earthquake liquefaction response on parallel computers. International Journal for Numerical and Analytical Methods in Geomechanics, 2004, 28, 1207-1232.	1.7	20
54	Real-time nondestructive structural health monitoring using support vector machines and wavelets. , 2005, , .		20

#	Article	IF	CITATIONS
55	LIQUEFACTION OF OVER-CONSOLIDATED SAND: A CENTRIFUGE INVESTIGATION. Journal of Earthquake Engineering, 2005, 9, 127-150.	1.4	20
56	SYSTEM IDENTIFICATION OF LANDFILL SEISMIC RESPONSE. Journal of Earthquake Engineering, 2004, 8, 545-566.	1.4	19
57	Using Stone Columns to Mitigate Lateral Deformation in Uniform and Stratified Liquefiable Soil Strata. International Journal of Geomechanics, 2019, 19, .	1.3	18
58	Analysis of change in dynamic properties of a frame-resistant test building. Engineering Structures, 2008, 30, 183-196.	2.6	17
59	Neural Networks and Principal Components Analysis for Strain-Based Vehicle Classification. Journal of Computing in Civil Engineering, 2008, 22, 123-132.	2.5	17
60	Sustainability Metrics for Performance-Based Seismic Bridge Response. Journal of Structural Engineering, 2016, 142, .	1.7	17
61	Flexural Tests and Associated Study of a Full-Scale 65-kW Wind Turbine Tower. Journal of Structural Engineering, 2014, 140, .	1.7	16
62	Lateral spreading near deep foundations and influence of soil permeability. Canadian Geotechnical Journal, 2017, 54, 846-861.	1.4	16
63	A Framework for 3D Finite Element Analysis of Lateral Pile System Response. , 2009, , .		15
64	Large-Scale Shake Table Tests on a Shallow Foundation in Liquefiable Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	15
65	Webshaker: Live internet shake-table experiment for education and research. Computer Applications in Engineering Education, 2005, 13, 99-110.	2.2	14
66	Response Spectra at Liquefaction Sites during Shallow Crustal Earthquakes. Earthquake Spectra, 2015, 31, 2325-2349.	1.6	13
67	Seismic performance assessment of a pile-supported wharf retrofitted with different slope strengthening strategies. Soil Dynamics and Earthquake Engineering, 2020, 129, 105903.	1.9	13
68	Laminar Box System for 1-g Physical Modeling of Liquefaction and Lateral Spreading. Geotechnical Testing Journal, 2009, 32, 102154.	0.5	13
69	Estimating site-specific strong earthquake motions. Soil Dynamics and Earthquake Engineering, 2004, 24, 199-223.	1.9	12
70	Seismic response of helical pile groups from shake table experiments. Soil Dynamics and Earthquake Engineering, 2022, 152, 107008.	1.9	12
71	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.	1.4	11
72	Pushover Analysis of a 53 m High Wind Turbine Tower. Advanced Science Letters, 2011, 4, 656-662.	0.2	11

#	Article	IF	CITATIONS
73	On-Line Educational Shake Table Experiments. Journal of Professional Issues in Engineering Education and Practice, 2005, 131, 41-49.	0.9	10
74	Effect of Discrete Columns on Shear Stress Distribution in Liquefiable Soil. , 2012, , .		10
75	Numerical simulations of LEAP centrifuge tests for seismic response of liquefiable sloping ground. Soil Dynamics and Earthquake Engineering, 2020, 139, 106378.	1.9	10
76	Three-Dimensional Modeling of Strain-Softening Soil Response for Seismic-Loading Applications. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1,5	10
77	Seismic performance evaluation of a pile-supported wharf system at two seismic hazard levels. Ocean Engineering, 2021, 219, 108333.	1.9	10
78	An experimental evaluation of helical piles as a liquefaction-induced building settlement mitigation measure. Soil Dynamics and Earthquake Engineering, 2021, 151, 106994.	1.9	10
79	Elements of an integrated health monitoring framework. , 2003, 5047, 231.		9
80	Title is missing!. Journal of Earthquake Engineering, 2004, 8, 663.	1.4	9
81	A Framework for Performance-Based Earthquake Engineering of Bridge-Abutment Systems. , 2012, , .		9
82	Effect of DSM Grids on Shear Stress Distribution in Liquefiable Soil. , 2012, , .		8
83	Evaluation of Seismic Soil–Structure Interaction of Full-Scale Grouped Helical Piles in Dense Sand. International Journal of Geomechanics, 2020, 20, .	1.3	8
84	Shear Stress-Strain Curves Based on the G/G <sub>max</sub> Logic: A Procedure for Strength Compatibility. , 2013, , .		7
85	Validation of a wireless traffic vibration monitoring system for the Voigt Bridge. , 2008, , .		7
86	Title is missing!. Journal of Earthquake Engineering, 2002, 6, 447.	1.4	6
87	A Miniature Tensiometer for Measurement of High Matric Suction. , 2006, , 1897.		6
88	Recorded seismic response of the Samoa Channel Bridge-foundation system and adjacent downhole array. Soil Dynamics and Earthquake Engineering, 2017, 92, 358-376.	1.9	6
89	Large Soil Confinement Box for Seismic Performance Testing of Geo-Structures. Geotechnical Testing Journal, 2014, 38, 20140034.	0.5	6
90	Shake Table Testing: A High-Resolution Vertical Accelerometer Array for Tracking Shear Wave Velocity. Geotechnical Testing Journal, 2021, 44, 1097-1118.	0.5	6

#	Article	IF	CITATIONS
91	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.	2.3	5
92	Bridge in Narrow Waterway: Seismic Response and Liquefaction-Induced Deformations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	5
93	Full-Scale Seismic Test of MSE Retaining Wall at UCSD. , 2014, , .		4
94	Automatic Vehicle Type Classification Using Strain Gauge Sensors. , 2007, , .		3
95	Visualizing 3D Earthquake Simulation Data. Computing in Science and Engineering, 2011, 13, 52-63.	1.2	3
96	Assessment of the Samoa Channel Bridge-foundation seismic response. Soil Dynamics and Earthquake Engineering, 2018, 108, 150-159.	1.9	3
97	Large Scale Liquefaction-Induced Lateral Spreading Shake Table Testing at the University of California San Diego. , 2019, , .		3
98	Asymmetric input motion for accumulation of lateral ground deformation in laminar container shake table testing. Canadian Geotechnical Journal, 2021, 58, 210-223.	1.4	3
99	Pilot 3D Numerical Simulation of Liquefaction and Countermeasures. , 2005, , 1.		2
100	NEES IT Tools to Advance Earthquake Engineering Research and Practice. , 2007, , 1.		2
101	NEESit MacBook Accelerometer and Video Sensor Platform (iSeismograph) for education and research. , 2008, , .		2
102	Measuring Global Response of a Wind Turbine to Simulated Earthquake Shaking Assisted by Point Tracking Videogrammetry. , 2011, , .		2
103	Seismic Testing Program for Large-Scale MSE Retaining Walls at UCSD. , 2013, , .		2
104	Three-Dimensional Seismic Response of a Large Embedded Structure and Induced Earth Pressure. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	2
105	Numerical Simulations of LEAP Dynamic Centrifuge Model Tests for Response of Liquefiable Sloping Ground. , 2020, , 521-544.		2
106	Seismic response of the Eureka Channel Bridge-Foundation system. Soil Dynamics and Earthquake Engineering, 2022, 152, 107015.	1.9	2
107	Simulation of Earthquake Liquefaction Response on Parallel Computers. , 2004, , 1.		1
108	Title is missing!. Journal of Earthquake Engineering, 2005, 9, 17.	1.4	1

#	Article	IF	CITATIONS
109	Reliable information management in a low-cost wireless structural monitoring and control network. , 2007, , .		1
110	Lateral Load on a Large Pile Group: A 3D Finite Element Model. , 2013, , .		1
111	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
112	Settlement Induced during CFA Pile Installation in Egyptian Nile Valley Region: Case Study. , 2018, , .		1
113	In-situ Ambient Vibration Study of a 900-kw Wind Turbine. Journal of Earthquake Engineering, 2021, 25, 2971-2992.	1.4	1
114	Seismic Response of a Large-Scale Highway Interchange System. Geotechnical, Geological and Earthquake Engineering, 2014, , 223-240.	0.1	1
115	Large Scale Geotechnical Shake Table Testing at the University of California San Diego. Sustainable Civil Infrastructures, 2019, , 101-113.	0.1	1
116	Title is missing!. Journal of Earthquake Engineering, 2004, 8, 545.	1.4	0
117	Large Scale Simulation and Data Analysis. , 2005, , 1.		0
118	STONE COLUMNS FOR SEISMIC LIQUEFACTION MITIGATION. , 2005, , .		0
119	FORTHCOMING SPECIAL ISSUE SEISMIC LOADING AND GROUND MODIFICATION GUEST EDITOR FOREWORD. Journal of Earthquake Engineering, 2005, 9, 585-585.	1.4	0
120	Parallel Computing for Seismic Geotechnical Applications. , 2006, , 1.		0
121	A Framework for 3D Nonlinear Ground-Foundation Analysis. , 2009, , .		0
122	Recent trends in geotechnical earthquake engineering experimentation. , 2010, , 23-44.		0
123	Three-Dimensional Finite Element Modeling of Pile and Pile Group System Response. , 2014, , .		0
124	Carbon Footprint: Liquefaction Effects on a Private Residence. , 2016, , .		0
125	Effect of Pile Diameter on the Seismic Performance of Pile Foundation. , 2017, , .		0
126	Response of A 850 KW Wind Turbine Including Soil-Structure Interaction During Seismic Excitation. Sustainable Civil Infrastructures, 2019, , 114-125.	0.1	0

#	Article	IF	CITATIONS
127	Nonlinear Seismic Response of Ground-Structure Systems: Developments and Challenges. Lecture Notes in Civil Engineering, 2021, , 46-61.	0.3	0
128	Three-Dimensional Bridge-Ground Liquefaction-Induced Deformations. Lecture Notes in Civil Engineering, 2021, , 645-652.	0.3	0
129	Seismically Induced Ground Deformation and Reduction of Impact on Bridge Systems. , 2022, , .		0