Mohammad Hassan Baziar

List of Publications by Year
in descending order

58 papers	**1,579** citations	279701 **23** h-index	315616 **38** g-index
59 all docs	**59** docs citations	**59** times ranked	**892** citing authors

#	Article	IF	Citations
1	Centrifuge study of seismic response of soil-nailed walls supporting a footing on the ground surface. Geotechnique, 2023, 73, 781-797.	2.2	3
2	Mitigation of liquefaction triggering due to bio-gas-induced desaturation using element tests and the strain energy approach. Earthquake Spectra, 2022, 38, 37-55.	1.6	2
3	Use of V-shaped concrete element to mitigate foundation rotation for uncertain reverse faulting dip angle and discontinuity location. Soil Dynamics and Earthquake Engineering, 2022, 158, 107287.	1.9	1
4	Centrifuge modeling of batter pile behavior under explosion loading. Marine Georesources and Geotechnology, 2021, 39, 1273-1284.	1.2	6
5	Numerical analysis of collapse in a deep excavation supported by ground anchors. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2021, 174, 263-278.	0.9	3
6	Performance-based analysis of cantilever retaining walls subjected to near-fault ground shakings. Computers and Geotechnics, 2021, 130, 103924.	2.3	9
7	Use of Vertical and Inclined Walls to Mitigate the Interaction of Reverse Faulting and Shallow Foundations: Centrifuge Tests and Numerical Simulation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	9
8	Mitigation of Dust Emissions of Silty Sand Induced by Wind Erosion Using Natural Soybean Biomaterial. International Journal of Civil Engineering, 2021, 19, 595-606.	0.9	10
9	Evaluation of seismic mechanical response of tunnel linings using shaking table tests and numerical analyses. Soil Dynamics and Earthquake Engineering, 2021, 147, 106793.	1.9	5
10	Evaluation of reverse faulting effects on the mechanical response of tunnel lining using centrifuge tests and numerical analysis. Geotechnique, 2020, 70, 490-502.	2.2	11
11	Mitigation of hunchbacked gravity quay wall displacement due to dynamic loading using shaking table tests. Ocean Engineering, 2020, 216, 108056.	1.9	5
12	New Deep Learning-Based Approach for Wind Turbine Output Power Modeling and Forecasting. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	4
13	Mitigation of ground vibrations induced by high speed railways using double geofoam barriers: Centrifuge modeling. Geotextiles and Geomembranes, 2019, 47, 712-728.	2.3	16
14	Assessment of damages in fault rupture–shallow foundation interaction due to the existence of underground structures. Tunnelling and Underground Space Technology, 2019, 89, 222-237.	3.0	20
15	Numerical Investigation on the Displacements and Failure Mechanism of Soil-Nailed Structures in Seismic Conditions. , 2019, , .		0
16	Evaluation of EPS wall effectiveness to mitigate shallow foundation deformation induced by reverse faulting. Bulletin of Earthquake Engineering, 2019, 17, 3095-3117.	2.3	19
17	Load Sharing and Carrying Mechanism of Piles in Non-connected Pile Rafts Using a Numerical Approach. International Journal of Civil Engineering, 2019, 17, 793-808.	0.9	19
18	Seismic in-Soil Isolation of Solid Waste Landfill Using Geosynthetic Liners: Shaking Table Modeling of Tehran Landfill. International Journal of Civil Engineering, 2019, 17, 205-217.	0.9	4

#	Article	IF	Citations
19	Parametric Study on Seismic Topography–Soil–Structure Interaction; Topographic Effect. Geotechnical and Geological Engineering, 2018, 36, 2649-2666.	0.8	12
20	3D Dynamic Finite Element Analyses and 1 g Shaking Table Tests on Seismic Performance of Connected and Nonconnected Piled Raft Foundations. KSCE Journal of Civil Engineering, 2018, 22, 1750-1762.	0.9	34
21	Effect of super-structure frequency on the seismic behavior of pile-raft foundation using physical modeling. Soil Dynamics and Earthquake Engineering, 2018, 104, 196-209.	1.9	26
22	Mitigation of surface impact loading effects on the underground structures with geofoam barrier: Centrifuge modeling. Tunnelling and Underground Space Technology, 2018, 80, 128-142.	3.0	24
23	Effect of Superstructure on the Dynamic Response of Nonconnected Piled Raft Foundation Using Centrifuge Modeling. International Journal of Geomechanics, 2018, 18, .	1.3	21
24	Effects of Nanoclay on the Treatment of Core Material in Earth Dams. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	26
25	Assessment of sliding block methods performance considering energy-representative parameters. Soil Dynamics and Earthquake Engineering, 2018, 114, 520-533.	1.9	2
26	Investigation on the Effects of Different Nail Diameters, Soil Elastic Moduli and Pullout Rates on the Pullout Shear Resistance of Soil-Nail Interface. , 2018, , .		0
27	Investigating Surface Fault Rupture Hazard Mitigation for Shallow Foundations by EPS Wall Using Numerical Studies. , 2018, , .		0
28	Earthquake Demand Energy Attenuation Model for Liquefaction Potential Assessment. Earthquake Spectra, 2017, 33, 757-780.	1.6	13
29	Tunnel flexibility effect on the ground surface acceleration response. Earthquake Engineering and Engineering Vibration, 2016, 15, 457-476.	1.1	27
30	Experimental and Numerical Study of Pile-to-Pile Interaction Factor in Sandy Soil. Procedia Engineering, 2016, 161, 1030-1036.	1.2	11
31	Evaluation of underground tunnel response to reverse fault rupture using numerical approach. Soil Dynamics and Earthquake Engineering, 2016, 83, 1-17.	1.9	59
32	Seismic ground motion amplification pattern induced by a subway tunnel: Shaking table testing and numerical simulation. Soil Dynamics and Earthquake Engineering, 2016, 83, 81-97.	1.9	90
33	Prediction of pile settlement based on cone penetration test results: An ANN approach. KSCE Journal of Civil Engineering, 2015, 19, 98-106.	0.9	32
34	Numerical modeling of interaction between dip-slip fault and shallow foundation. Bulletin of Earthquake Engineering, 2015, 13, 1613-1632.	2.3	26
35	Simplified Soil Liquefaction Assessment Based on Cumulative Kinetic Energy Density: Attenuation Law and Probabilistic Analysis. International Journal of Geomechanics, 2014, 14, 267-281.	1.3	22
36	Centrifuge modeling of interaction between reverse faulting and tunnel. Soil Dynamics and Earthquake Engineering, 2014, 65, 151-164.	1.9	87

#	Article	IF	Citations
37	Effect of underground tunnel on the ground surface acceleration. Tunnelling and Underground Space Technology, 2014, 44, 10-22.	3.0	68
38	Prediction of Uplift Pile Displacement Based on Cone Penetration Tests (CPT). Geotechnical and Geological Engineering, 2014, 32, 1043-1052.	0.8	16
39	Sliding stability analysis of gravity retaining walls using the pseudo-dynamic method. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2013, 166, 389-398.	0.9	7
40	Decoupled Solution for Seismic Permanent Displacement of Earth Slopes Using Deformation-Dependent Yield Acceleration. Journal of Earthquake Engineering, 2012, 16, 917-936.	1.4	27
41	Prediction of pile shaft resistance using cone penetration tests (CPTs). Computers and Geotechnics, 2012, 45, 74-82.	2.3	28
42	Strain energy based evaluation of liquefaction and residual pore water pressure in sands using cyclic torsional shear experiments. Soil Dynamics and Earthquake Engineering, 2012, 35, 13-28.	1.9	82
43	Probabilistic evaluation of seismic liquefaction potential in field conditions. Engineering Computations, 2011, 28, 675-700.	0.7	5
44	Prediction of strain energy-based liquefaction resistance of sandâ€"silt mixtures: An evolutionary approach. Computers and Geosciences, 2011, 37, 1883-1893.	2.0	42
45	On the efficiency and predictability of strain energy for the evaluation of liquefaction potential: A numerical study. Computers and Geotechnics, 2011, 38, 800-808.	2.3	28
46	Assessment of silty sand liquefaction potential using hollow torsional testsâ€"An energy approach. Soil Dynamics and Earthquake Engineering, 2011, 31, 857-865.	1.9	48
47	Comparison of Strain Controlled and Stress Controlled Tests in Evaluation of Fines Content Effect on Liquefaction of Sandsâ€"An Energy Approach. , 2011, , .		0
48	Empirical predictive model for the vmax/amax ratio of strong ground motions using genetic programming. Computers and Geosciences, 2010, 36, 1523-1531.	2.0	36
49	Probabilistic correlation between laboratory and field liquefaction potentials using relative state parameter index (Î¾R). Soil Dynamics and Earthquake Engineering, 2010, 30, 1061-1072.	1.9	15
50	Dynamic centrifuge model tests on asphalt-concrete core dams. Geotechnique, 2009, 59, 763-771.	2.2	40
51	Two Dimensional Evaluation of Site Effect in Rectangular Valleys. , 2008, , .		0
52	Assessment of liquefaction triggering using strain energy concept and ANN model: Capacity Energy. Soil Dynamics and Earthquake Engineering, 2007, 27, 1056-1072.	1.9	106
53	Evaluation of lateral spreading using artificial neural networks. Soil Dynamics and Earthquake Engineering, 2005, 25, 1-9.	1.9	85
54	Effect of fines content on steady-state strength of mixed and layered samples of a sand. Soil Dynamics and Earthquake Engineering, 2004, 24, 181-187.	1.9	170

#	Article	IF	Citations
55	Evaluation of liquefaction potential using neural-networks and CPT results. Soil Dynamics and Earthquake Engineering, 2003, 23, 631-636.	1.9	43
56	Effect of Sample Preparation on Steady State. , 2000, , 16.		2
57	Residual Strength and Large-Deformation Potential of Loose Silty Sands. Journal of Geotechcnical Engineering, 1995, 121, 896-906.	0.4	72
58	Discrete Element Modeling of Underground Tunnel Response to Reverse Fault Rupture in Sand. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 0, , 1-37.	0.9	0