

# Meghdad Payan

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,169  
citations

361045

20  
h-index

414034

32  
g-index

42  
all docs

42  
docs citations

42  
times ranked

300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudo-static internal stability analysis of geosynthetic-reinforced earth slopes using horizontal slices method. <i>Geomechanics and Geoengineering</i> , 2022, 17, 1417-1442.	0.9	8
2	A framework to predict the load-settlement behavior of shallow foundations in a range of soils from silty clays to sands using CPT records. <i>Soft Computing</i> , 2022, 26, 3545-3560.	2.1	2
3	An experimental investigation on geotechnical properties of a clayey soil stabilised with lime and zeolite in base and subbase courses. <i>Road Materials and Pavement Design</i> , 2022, 23, 2924-2941.	2.0	11
4	Limit Analysis of Lateral Earth Pressure on Geosynthetic-Reinforced Retaining Structures Subjected to Strip Footing Loading Using Finite Element and Second-Order Cone Programming. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2022, 46, 3181-3192.	1.0	9
5	Efficiency of various mitigation schemes in the alleviation of the destructive effect of reverse dip-slip fault rupture on surface and embedded shallow foundations using upper bound finite element limit analysis. <i>Computers and Geotechnics</i> , 2022, 142, 104548.	2.3	12
6	General failure envelope of eccentrically and obliquely loaded strip footings resting on an inherently anisotropic granular medium. <i>Computers and Geotechnics</i> , 2022, 146, 104734.	2.3	26
7	Lower Bound Finite Element Limit Analysis of Geo-Structures with Non-Associated Flow Rule. <i>Computers and Geotechnics</i> , 2022, 147, 104803.	2.3	20
8	Interaction of rigid shallow foundation with dip-slip normal fault rupture outcrop: effective parameters and retrofitting strategies. <i>Computers and Geotechnics</i> , 2022, 149, 104866.	2.3	7
9	Analysis of the stiffness and damping characteristics of compacted sand-in-fines granular composites: a multiscale investigation. <i>Granular Matter</i> , 2022, 24, .	1.1	4
10	The behaviour of a recycled road base aggregate and quartz sand with bender/extender element tests under variable stress states. <i>European Journal of Environmental and Civil Engineering</i> , 2021, 25, 152-169.	1.0	17
11	Pseudo-static Seismic Bearing Capacity of Shallow Foundations in Unsaturated Soils Employing Limit Equilibrium Method. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 943-956.	0.8	22
12	Limit Analysis of Modified Pseudodynamic Lateral Earth Pressure in Anisotropic Frictional Medium Using Finite-Element and Second-Order Cone Programming. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	49
13	A sustainable landfill liner material: clay-fly ash geopolymers. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 4111-4124.	1.6	19
14	Compositional effects of clay-fly ash geopolymers on the sorption process of lead and zinc. <i>Journal of Environmental Quality</i> , 2021, 50, 768-781.	1.0	9
15	Limit analysis of lateral earth pressure on geosynthetic-reinforced retaining structures using finite element and second-order cone programming. <i>Computers and Geotechnics</i> , 2021, 134, 104119.	2.3	46
16	Evolution of Dynamic Properties of Cross-Anisotropic Sand Subjected to Stress Anisotropy. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	22
17	Lower bound analysis of modified pseudo-dynamic lateral earth pressures for retaining wall-backfill system with depth-varying damping using FEM-second order cone programming. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 2371-2387.	1.7	32
18	Effect of Lime Stabilization and Partial Clinoptilolite Zeolite Replacement on the Behavior of a Silt-Sized Low-Plasticity Soil Subjected to Freezing-Thawing Cycles. <i>Coatings</i> , 2021, 11, 994.	1.2	25

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19	Active lateral earth pressure of geosynthetic-reinforced retaining walls with inherently anisotropic frictional backfills subjected to strip footing loading. <i>Computers and Geotechnics</i> , 2021, 137, 104302.	2.3	25
20	Assessment of the compression characteristics and coefficient of lateral earth pressure of aggregate-expanded polystyrene beads composite fill-backfill using large oedometer experiments. <i>Construction and Building Materials</i> , 2021, 302, 124145.	3.2	16
21	Nonlinear stiffness and damping characteristics of gravelly crushed rock: Developing generic curves and attempting multi-scale insights. <i>Transportation Geotechnics</i> , 2021, 31, 100668.	2.0	9
22	Impact of bedding plane direction and type of plastic microparticles on stiffness of inherently anisotropic gap-graded soils: Index, wave propagation and micromechanical-based interpretations. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 150, 106924.	1.9	15
23	Effect of EPS beads in lightening a typical zeolite and cement-treated sand. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 8615-8632.	1.6	32
24	A Simple Review of Cemented Non-conventional Materials: Soil Composites. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 1019-1040.	0.8	34
25	Elastic Dynamic Young's Modulus and Poisson's Ratio of Sand-Silt Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	33
26	Directional strength and stiffness characteristics of inherently anisotropic sand: The influence of deposition inclination. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 137, 106304.	1.9	30
27	Evaluation of the lateral earth pressure in unsaturated soils with finite element limit analysis using second-order cone programming. <i>Computers and Geotechnics</i> , 2020, 125, 103587.	2.3	49
28	A Review of the Studies on Soil-EPS Composites: Beads and Blocks. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 3363-3383.	0.8	27
29	Small strain shear modulus of anisotropically loaded sands. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 125, 105726.	1.9	36
30	Stochastic analysis of foundation immediate settlement on heterogeneous spatially random soil considering mechanical anisotropy. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	21
31	Effect of Anisotropic Stress State on Elastic Shear Stiffness of Sand-Silt Mixture. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 2237-2244.	0.8	17
32	Physical modelling of cohesive soil inherent variability: consolidation problem. <i>International Journal of Geo-Engineering</i> , 2018, 9, 1.	0.9	5
33	Soil-structure interaction analysis in natural heterogeneous deposits using random field theory. <i>Innovative Infrastructure Solutions</i> , 2018, 3, 1.	1.1	16
34	Small strain damping ratio of sands and silty sands subjected to flexural and torsional resonant column excitation. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 114, 448-459.	1.9	34
35	Characterization of the small-strain dynamic behaviour of silty sands; contribution of silica non-plastic fines content. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 102, 232-240.	1.9	65
36	Characterization of Small-Strain Shear Modulus of Sands Subjected to Anisotropic States of Stress. , 2017, , .		4

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37	Effect of Gradation and Particle Shape on Small-Strain Young's Modulus and Poisson's Ratio of Sands. International Journal of Geomechanics, 2017, 17, .	1.3	59
38	Influence of particle shape on small-strain damping ratio of dry sands. Geotechnique, 2016, 66, 610-616.	2.2	47
39	Small-strain stiffness of sand subjected to stress anisotropy. Soil Dynamics and Earthquake Engineering, 2016, 88, 143-151.	1.9	91
40	Effect of particle shape and validity of $\frac{G}{\sigma'_{v0}}$ models for sand: A critical review and a new expression. Computers and Geotechnics, 2016, 72, 28-41.	2.3	128
41	Numerical study on the bearing capacity of strip footing resting on partially saturated soil subjected to combined vertical-horizontal-moment loading. European Journal of Environmental and Civil Engineering, 0, , 1-34.	1.0	11