Guoxiong Mei

List of Publications by Year
in descending order

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Version: 2024-02-01

		361413	395702
60	1,288	20	33
papers	citations	h-index	g-index

61	61	61	636
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experiment on Rockburst Process of Borehole and Its Acoustic Emission Characteristics. Rock Mechanics and Rock Engineering, 2019, 52, 783-802.	5.4	111
2	Investigation of cracking and water availability of soil-biochar composite synthesized from invasive weed water hyacinth. Bioresource Technology, 2018, 263, 665-677.	9.6	105
3	Torsional dynamic response of a pile embedded in layered soil based on the fictitious soil pile model. Computers and Geotechnics, 2016, 80, 190-198.	4.7	80
4	New method to calculate apparent phase velocity of open-ended pipe pile. Canadian Geotechnical Journal, 2020, 57, 127-138.	2.8	70
5	Erodibility assessment of compacted biochar amended soil for geo-environmental applications. Science of the Total Environment, 2019, 672, 698-707.	8.0	60
6	Oneâ€dimensional selfâ€weight consolidation with continuous drainage boundary conditions: Solution and application to clayâ€drain reclamation. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1634-1652.	3.3	51
7	Generalized Nonlinear Softening Load-Transfer Model for Axially Loaded Piles. International Journal of Geomechanics, 2017, 17, .	2.7	45
8	Laboratory investigation of pore pressure dissipation in clay around permeable piles. Canadian Geotechnical Journal, 2018, 55, 1257-1267.	2.8	37
9	Influence of in-house produced biochars on cracks and retained water during drying-wetting cycles: comparison between conventional plant, animal, and nano-biochars. Journal of Soils and Sediments, 2020, 20, 1983-1996.	3.0	37
10	Plane-strain consolidation theory with distributed drainage boundary. Acta Geotechnica, 2020, 15, 489-508.	5.7	34
11	Benefits from using two receivers for interpretation of low-strain integrity tests on pipe piles. Canadian Geotechnical Journal, 2019, 56, 1433-1447.	2.8	33
12	Temperature Effect on AE Energy Characteristics and Damage Mechanical Behaviors of Granite. International Journal of Geomechanics, 2018, 18, .	2.7	32
13	Displacement-Dependent Lateral Earth Pressure Models. Journal of Engineering Mechanics - ASCE, 2018, 144, .	2.9	32
14	Oneâ€dimensional consolidation of soil under multistage load based on continuous drainage boundary. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1170-1183.	3.3	31
15	Study on Runoff and Infiltration for Expansive Soil Slopes in Simulated Rainfall. Water (Switzerland), 2020, 12, 222.	2.7	30
16	A new analytical model to study the influence of weld on the vertical dynamic response of prestressed pipe pile. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 1247-1266.	3.3	27
17	A new prediction method for the occurrence of landslides based on the time history of tilting of the slope surface. Landslides, 2020, 17, 301-312.	5.4	27
18	Influence of biochar from animal and plant origin on the compressive strength characteristics of degraded landfill surface soils. International Journal of Damage Mechanics, 2021, 30, 484-501.	4.2	27

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19	Experimental study on the hydrological performance of green roofs in the application of novel biochar. Hydrological Processes, 2020, 34, 4512-4525.	2.6	25
20	Mechanism of compacted biochar-amended expansive clay subjected to dryingâ€“wetting cycles: simultaneous investigation of hydraulic and mechanical properties. Acta Geophysica, 2020, 68, 737-749.	2.0	24
21	Surcharge preloading consolidation of reclaimed land with distributed sand caps. Marine Georesources and Geotechnology, 2019, 37, 671-682.	2.1	21
22	Interaction Model for Torsional Dynamic Response of Thin-Wall Pipe Piles Embedded in Both Vertically and Radially Inhomogeneous Soil. International Journal of Geomechanics, 2021, 21, .	2.7	20
23	Vibration response of cable for submerged floating tunnel under simultaneous hydrodynamic force and earthquake excitations. Advances in Structural Engineering, 2018, 21, 1761-1773.	2.4	17
24	Analytical solution for one-dimensional nonlinear consolidation of double-layered soil with improved continuous drainage boundary. European Journal of Environmental and Civil Engineering, 2023, 27, 2746-2767.	2.1	17
25	Numerical investigation of the uplift performance of prestressed fiber-reinforced polymer floating piles. Marine Georesources and Geotechnology, 2017, 35, 829-839.	2.1	16
26	Nonlinear consolidation of soft foundation improved by prefabricated vertical drains based on elliptical cylindrical equivalent model. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 1949-1971.	3.3	16
27	Predicting Excavation-Induced Settlement for Embedded Footing: Case Study. International Journal of Geomechanics, 2018, 18, 05018001.	2.7	15
28	Numerical analysis of surcharge preloading consolidation of layered soils via distributed sand blankets. Marine Georesources and Geotechnology, 2019, 37, 902-914.	2.1	15
29	Analytical solution for one-dimensional consolidation of double-layered soil with exponentially time-growing drainage boundary. International Journal of Distributed Sensor Networks, 2018, 14, 155014771880671.	2.2	14
30	Utilization of coconut shell residual in green roof: hydraulic and thermal properties of expansive soil amended with biochar and fibre including theoretical model. Acta Geophysica, 2020, 68, 1803-1819.	2.0	14
31	THREE-DIMENSIONAL CONSOLIDATION THEORY OF VERTICAL DRAIN BASED ON CONTINUOUS DRAINAGE BOUNDARY. Journal of Civil Engineering and Management, 2019, 25, 145-155.	3.5	14
32	Influence of biochar amendment on stormwater management in green roofs: experiment with numerical investigation. Acta Geophysica, 2021, 69, 2417-2426.	2.0	14
33	Expansive soil-biochar-root-water-bacteria interaction: Investigation on crack development, water management and plant growth in green infrastructure. International Journal of Damage Mechanics, 2021, 30, 595-617.	4.2	12
34	Estimation of Interface Parameter for One-Dimensional Consolidation with Continuous Drainage Boundary Conditions. International Journal of Geomechanics, 2022, 22, .	2.7	12
35	Antiflotation design for water tank using pressure relief technique. Marine Georesources and Geotechnology, 2018, 36, 471-483.	2.1	11
36	Consolidation solution of soil around a permeable pipe pile. Marine Georesources and Geotechnology, 2020, 38, 1097-1105.	2.1	11

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37	A Novel Python Program to Automate Soil Colour Analysis and Interpret Surface Moisture Content. International Journal of Geosynthetics and Ground Engineering, 2020, 6, 1.	2.0	11
38	Influence of feedstock type and particle size on efficiency of biochar in improving tensile crack resistance and shear strength in lean clayey soil. International Journal of Damage Mechanics, 2021, 30, 646-661.	4.2	11
39	An experimental and numerical investigation of the mechanism of improving the rainwater retention of green roofs with layered soil. Environmental Science and Pollution Research, 2022, 29, 10482-10494.	5.3	11
40	Shear Strength of Compacted Clays as Affected by Mineral Content and Wet-Dry Cycles. Advances in Civil Engineering, 2019, 2019, 1-8.	0.7	10
41	Swelling Suppression Mechanism of Compacted Expansive Soil Amended with Animal and Plant Based Biochar. Waste and Biomass Valorization, 2021, 12, 2653-2664.	3.4	10
42	Model Tests of Buoyant Force on Underground Structures. Journal of Testing and Evaluation, 2019, 47, 1216-1235.	0.7	10
43	The rainwater retention mechanisms in extensive green roofs with ten different structural configurations. Water Science and Technology, 2021, 84, 1839-1857.	2.5	8
44	Experimental and numerical investigation on hydrological characteristics of extensive green roofs under the influence of rainstorms. Environmental Science and Pollution Research, 2022, 29, 53121-53136.	5.3	8
45	An Analytical Solution for Wave Propagation in a Pipe Pile with Multiple Defects. Acta Mechanica Solida Sinica, 2020, 33, 251-267.	1.9	7
46	Time Effect of Buoyant Force Reduction for Underground Structures in Clays: Model Test and Case Study. International Journal of Geomechanics, 2020, 20, .	2.7	7
47	A New Prestress Loss Calculation Model of Anchor Cable in Pileâ€“Anchor Structure. Mathematics, 2022, 10, 1260.	2.2	7
48	Dynamic Response Analysis of Cable of Submerged Floating Tunnel under Hydrodynamic Force and Earthquake. Shock and Vibration, 2017, 2017, 1-14.	0.6	6
49	Stormwater management of biochar-amended green roofs: peak flow and hydraulic parameters using combined experimental and numerical investigation. Biomass Conversion and Biorefinery, 2024, 14, 5835-5846.	4.6	5
50	Physical and numerical modelling of infiltration from drainage holes for perforated storm sewer. Acta Geotechnica, 2022, 17, 527-543.	5.7	5
51	Moisture management in biochar-amended green roofs planted with Ophiopogon japonicus under different irrigation schemes: an integrated experimental and modeling approach. Acta Geophysica, 2022, 70, 373-384.	2.0	4
52	Geotechnical engineering educational modules demonstrating measurement and regulation of soil moisture. Computer Applications in Engineering Education, 2022, 30, 973-985.	3.4	4
53	Evaluating Suitability of Geomaterials-Amended Soil for Landfill Liner: A Comparative Study. Journal of Hazardous, Toxic, and Radioactive Waste, 2020, 24, 04020052.	2.0	2
54	A stochastic analysis approach for marine riserâ€™s cross-flow/in-line VIV under heave-induced parametric vibration. Ships and Offshore Structures, 2022, 17, 952-972.	1.9	2

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55	Consolidation Theory for a Stone Column Composite Foundation under Multistage Loading. Mathematical Problems in Engineering, 2016, 2016, 1-8.	1.1	1
56	Closure to â€œGeneralized Nonlinear Softening Load-Transfer Model for Axially Loaded Pilesâ€•by Pengpeng Ni, Linhui Song, Guoxiong Mei, and Yanlin Zhao. International Journal of Geomechanics, 2018, 18, 07018014.	2.7	1
57	Experimental and numerical investigation on rainwater management of dual substrate layer green roofs using biochar-amended soil. Biomass Conversion and Biorefinery, 0, , 1.	4.6	1
58	Use of bag-sealed bored pile in Karst areas. Japanese Geotechnical Society Special Publication, 2020, 8, 267-271.	0.2	0
59	Bearing capacity of plane-strain footings under K0 conditions. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	0
60	Development of models for facing tensile forces of soil nail walls using statistical approaches. Georisk, 2022, 16, 710-727.	3.5	0