

# Huayang Lei

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

670  
citations

567281

15  
h-index

677142

22  
g-index

50  
all docs

50  
docs citations

50  
times ranked

310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Study of the Clogging of Dredger Fills under Vacuum Preloading. International Journal of Geomechanics, 2017, 17, .	2.7	59
2	Effects of pressurizing timing on air booster vacuum consolidation of dredged slurry. Geotextiles and Geomembranes, 2020, 48, 491-503.	4.6	41
3	Dynamic Deformation Behavior and Cyclic Degradation of Ultrasoft Soil under Cyclic Loading. Journal of Materials in Civil Engineering, 2016, 28, .	2.9	38
4	Improvement of very soft ground by a high-efficiency vacuum preloading method: A case study. Marine Georesources and Geotechnology, 2017, 35, 631-642.	2.1	31
5	New Vacuum-Preloading Technique for Ultrasoft-Soil Foundations Using Model Tests. International Journal of Geomechanics, 2017, 17, .	2.7	30
6	Laboratory model study of newly deposited dredger fills using improved multiple-vacuum preloading technique. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 924-935.	8.1	30
7	Effect of Polyacrylamide on Improvement of Dredger Fill with Vacuum Preloading Method. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	29
8	Effects of chemical conditions on the engineering properties and microscopic characteristics of Tianjin dredged fill. Engineering Geology, 2020, 269, 105548.	6.3	27
9	Improved air-booster vacuum preloading method for newly dredged fills: Laboratory model study. Marine Georesources and Geotechnology, 2020, 38, 493-510.	2.1	25
10	Accumulative plastic strain behaviors and microscopic structural characters of artificially freeze-thaw soft clay under dynamic cyclic loading. Cold Regions Science and Technology, 2019, 168, 102895.	3.5	23
11	Improved Synchronous and Alternate Vacuum Preloading Method for Newly Dredged Fills: Laboratory Model Study. International Journal of Geomechanics, 2018, 18, .	2.7	21
12	Effects of Polyacrylamide on the Consolidation Behavior of Dredged Clay. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	18
13	Environmental changes in Ariake Sea of Japan and their relationships with Isahaya Bay reclamation. Marine Pollution Bulletin, 2018, 135, 832-844.	5.0	18
14	Changes in Soil Micro-Structure for Natural Soft Clay under Accelerated Creep Condition. Marine Georesources and Geotechnology, 2016, 34, 365-375.	2.1	17
15	Experimental Investigation of the Deformation Characteristics of Natural Loess under the Stress Paths in Shield Tunnel Excavation. International Journal of Geomechanics, 2017, 17, .	2.7	17
16	Compression characteristics of ultra-soft clays subjected to simulated staged preloading. KSCE Journal of Civil Engineering, 2016, 20, 718-728.	1.9	16
17	Compressibility and Microstructure Evolution of Different Reconstituted Clays during 1D Compression. International Journal of Geomechanics, 2020, 20, .	2.7	15
18	Model test and discrete element method simulation of shield tunneling face stability in transparent clay. Frontiers of Structural and Civil Engineering, 2021, 15, 147-166.	2.9	15

#	ARTICLE	IF	CITATIONS
19	Deformation and fabric of soft marine clay at various cyclic load stages. <i>Ocean Engineering</i> , 2020, 195, 106757.	4.3	14
20	Stability analysis of slope reinforced by double-row stabilizing piles with different locations. <i>Natural Hazards</i> , 2021, 106, 19-42.	3.4	14
21	Stabilization Effect of Anionic Polyacrylamide on Marine Clay Treated with Lime. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	13
22	Analysis of ground deformation development and settlement prediction by air-boosted vacuum preloading. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 272-288.	8.1	12
23	The reinforcement analysis of soft ground treated by thermal consolidation vacuum preloading. <i>Transportation Geotechnics</i> , 2021, 31, 100672.	4.5	11
24	An empirical model for predicting pore pressure development in artificial freeze-thaw soft clay under cyclic loading. <i>Engineering Geology</i> , 2021, 295, 106425.	6.3	11
25	Effects of frequency and cyclic stress ratio on creep behavior of clay under cyclic loading. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 281-291.	2.1	10
26	Experimental Investigation of Influence of Air-Boost Pressure and Duration on Air-Boost Vacuum Preloading Consolidation. <i>International Journal of Geomechanics</i> , 2021, 21, .	2.7	10
27	Dynamic properties of reclaimed soft soil under the combined frequency cyclic loading. <i>Road Materials and Pavement Design</i> , 2017, 18, 54-64.	4.0	9
28	Distinct element modeling of rock fragmentation by TBM cutter. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 2010-2031.	2.1	8
29	Cyclic Behavior of Tianjin Soft Clay under Intermittent Combined-Frequency Cyclic Loading. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	8
30	Deformation of Tianjin soft clay and corresponding micromechanism under cyclic loading. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1893-1902.	2.8	8
31	Influencing factors and control measures of excavation on adjacent bridge foundation based on analytic hierarchy process and finite element method. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 461-477.	2.9	8
32	A settlement prediction model considering tidal loading and traffic loading of soft soil subgrade. <i>Computers and Geotechnics</i> , 2022, 144, 104639.	4.7	8
33	Relating twin-tunnelling-induced settlement to changes in the stiffness of soil. <i>Acta Geotechnica</i> , 2023, 18, 469-482.	5.7	8
34	Ultra-soft Ground Improvement Using Air-Booster Vacuum Preloading Method: Laboratory Model Test Study. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2021, 7, 1.	2.0	7
35	The effects of the depositional environment and post-depositional processes on the engineering properties of Quaternary clays in the Saga Plain. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 1137-1152.	3.5	6
36	Application and design method of dredging sludge ground treated via prefabricated radiant drain vacuum preloading. <i>Marine Georesources and Geotechnology</i> , 2023, 41, 509-523.	2.1	5

#	ARTICLE	IF	CITATIONS
37	Effects of acidity and magnesium ions on the self-weight consolidation settlement of Tianjin dredged fill. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 4035-4047.	3.5	4
38	Deformational properties of Tianjin soft clay under different cyclic loading modes. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 153, 107086.	3.8	4
39	Physical Model Tests of the Bearing Behavior of Tongji-1 Lunar Soil Simulant. <i>Journal of Aerospace Engineering</i> , 2019, 32, 04018150.	1.4	3
40	Changes in the Permeability and Permeability Anisotropy of Reconstituted Clays under One-Dimensional Compression and the Corresponding Micromechanisms. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	3
41	Impact of environmental acidity on the geomechanical and mineralogical behavior of marine clay. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	3.5	3
42	Simplified Method for Calculating Consolidation Degree of Deep Mixed Column-Improved Soft Soils. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	3
43	Study of the sedimentation and self-weight consolidation behavior of seafloor sediments using a radioisotope densitometer. <i>Marine Georesources and Geotechnology</i> , 2019, 37, 256-265.	2.1	2
44	Experimental Evaluation of Consolidation Behavior of Double-Layer Soft Soil Ground. <i>Journal of Testing and Evaluation</i> , 2019, 47, 20170277.	0.7	2
45	Investigation on the macro- and microdeformation characteristics of silty clay under different shield construction stress paths. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 9105-9125.	3.5	2
46	Ground Movement and Existing Tunnel Deformation Induced by Overlapped Tunneling. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	2
47	Geotechnical behavior of soft dredger fill and deep sea soft clay. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 570, 062036.	0.3	1
48	Numerical Study of the Effect of Clay Structure on Piezocone Penetration Test Results. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2021, 7, 1.	2.0	1
49	A method for correcting the temperature effect on uCPT measurements in seabed sediments. <i>Marine Georesources and Geotechnology</i> , 2019, 37, 266-275.	2.1	0
50	Ground deformation behaviour induced by overlapped shield tunnelling considering vibration loads of subway train in sand. <i>Acta Geotechnica</i> , 0, , .	5.7	0