

Anthony K Leung

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,524
citations

361413

20
h-index

330143

37
g-index

61
all docs

61
docs citations

61
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally induced ratcheting of a thermo-active reinforced concrete pile in sand under sustained lateral load. <i>Geotechnique</i> , 2023, 73, 826-839.	4.0	9
2	Centrifuge modelling of the use of discretely spaced energy pile row to reinforce unsaturated silt. <i>Geotechnique</i> , 2022, 72, 618-631.	4.0	10
3	Exploring relations between plant photochemical quantum parameters and unsaturated soil water retention for biochars and pith amended soils. <i>Science of the Total Environment</i> , 2022, 804, 150251.	8.0	6
4	Experimental investigation on water release and gas emission of evapotranspirative capillary barrier landfill covers. <i>Soil Science Society of America Journal</i> , 2022, 86, 311-323.	2.2	8
5	Energy-Based Assessment of Liquefaction Resistance of Rooted Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	3.0	11
6	Biomechanical properties of the growing and decaying roots of <i>Cynodon dactylon</i> . <i>Plant and Soil</i> , 2022, 471, 193-210.	3.7	16
7	A New Method for Simultaneous Measurements of Gas Dispersion Coefficient and Gas Coefficient of Permeability of Unsaturated Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	3.0	5
8	Influence of growth media on the biomechanical properties of the fibrous roots of two contrasting vetiver grass species. <i>Ecological Engineering</i> , 2022, 178, 106574.	3.6	11
9	Modifying the mechanical properties of sand by using different hydrophobic conditions. <i>Acta Geotechnica</i> , 2022, 17, 3783-3797.	5.7	2
10	Non-equilibrium seepage characteristics and stability analysis of macroporous soil slope under water level changes. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	1.3	1
11	Shearing behaviour of vegetated soils with growing and decaying roots. <i>Canadian Geotechnical Journal</i> , 2022, 59, 2067-2084.	2.8	11
12	Hydro-mechanical reinforcement of contrasting woody species: a full-scale investigation of a field slope. <i>Geotechnique</i> , 2021, 71, 970-984.	4.0	19
13	Seepage characteristics of three-layered landfill cover system constituting fly-ash under extreme ponding condition. <i>Science of the Total Environment</i> , 2021, 758, 143683.	8.0	9
14	Monotonic and cyclic behaviour of root-reinforced sand. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1915-1927.	2.8	24
15	Nonlinear Lateral Response of RC Pile in Sand: Centrifuge and Numerical Modeling. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, 04021031.	3.0	6
16	Infiltration through an Artificially Hydrophobized Silica Sand Barrier. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	7
17	Root biomechanical properties of <i>Chrysopogon zizanioides</i> and <i>Chrysopogon nemoralis</i> for soil reinforcement and slope stabilisation. <i>Land Degradation and Development</i> , 2021, 32, 4624-4636.	3.9	22
18	Hydromechanical behavior of unsaturated artificially hydrophobized sand: Compression, shearing, and dilatancy. <i>Engineering Geology</i> , 2021, 291, 106223.	6.3	5

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19	Critical state of polymer-coated sands. <i>Geotechnique</i> , 2020, 70, 839-841.	4.0	3
20	A critical evaluation of predictive models for rooted soil strength with application to predicting the seismic deformation of rooted slopes. <i>Landslides</i> , 2020, 17, 93-109.	5.4	23
21	Small-scale modelling of root-soil interaction of trees under lateral loads. <i>Plant and Soil</i> , 2020, 456, 289-305.	3.7	14
22	Hydromechanical behaviour of hydrophobised soils of varying degrees of saturation: a comprehensive review. <i>E3S Web of Conferences</i> , 2020, 195, 03042.	0.5	1
23	Temperature Effects on the Hydraulic Properties of Unsaturated Sand and Their Influences on Water-Vapor Heat Transport. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	3.0	6
24	Small-Scale Modeling of Thermomechanical Behavior of Reinforced Concrete Energy Piles in Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, 04020011.	3.0	12
25	Unsaturated hydraulic properties of vegetated soil under single and mixed planting conditions. <i>Geotechnique</i> , 2019, 69, 554-559.	4.0	48
26	Water Retention and Desiccation Potential of Lignocellulose-Based Fiber-Reinforced Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	18
27	Effects of thermal boundary condition on methane oxidation in landfill cover soil at different ambient temperatures. <i>Science of the Total Environment</i> , 2019, 692, 490-502.	8.0	9
28	Role of hydromechanical properties of plant roots in unsaturated soil shear strength. <i>Japanese Geotechnical Society Special Publication</i> , 2019, 7, 133-138.	0.2	4
29	Three-Dimensional Physical and Numerical Modelling of Fracturing and Deformation Behaviour of Mining-Induced Rock Slopes. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1360.	2.5	10
30	Influences of plant spacing on root tensile strength of <i>Schefflera arboricola</i> and soil shear strength. <i>Landscape and Ecological Engineering</i> , 2019, 15, 223-230.	1.5	15
31	A study on effects of leaf and root characteristics on plant root water uptake. <i>Geotechnique</i> , 2019, 69, 151-157.	4.0	14
32	Hydrologic reinforcement induced by contrasting woody species during summer and winter. <i>Plant and Soil</i> , 2018, 427, 369-390.	3.7	23
33	Hydro-mechanical reinforcements of live poles to slope stability. <i>Soils and Foundations</i> , 2018, 58, 1423-1434.	3.1	27
34	Effects of root dehydration on biomechanical properties of woody roots of <i>Ulex europaeus</i> . <i>Plant and Soil</i> , 2018, 431, 347-369.	3.7	41
35	Removal of Hydrogen Sulfide Using Soil Amended with Ground Granulated Blast-Furnace Slag. <i>Journal of Environmental Engineering, ASCE</i> , 2017, 143, .	1.4	10
36	Mechanisms of hydrogen sulfide removal by ground granulated blast furnace slag amended soil. <i>Chemosphere</i> , 2017, 175, 425-430.	8.2	19

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37	Theoretical analysis of coupled effects of microbe and root architecture on methane oxidation in vegetated landfill covers. <i>Science of the Total Environment</i> , 2017, 599-600, 1954-1964.	8.0	35
38	Numerical modelling of methane oxidation efficiency and coupled water-gas-heat reactive transfer in a sloping landfill cover. <i>Waste Management</i> , 2017, 68, 355-368.	7.4	42
39	Analysis of plant root-induced preferential flow and pore-water pressure variation by a dual-permeability model. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1537-1552.	2.8	34
40	Correlating hydrologic reinforcement of vegetated soil with plant traits during establishment of woody perennials. <i>Plant and Soil</i> , 2017, 416, 437-451.	3.7	53
41	Hydrological Effects of Live Poles on Transient Seepage in an Unsaturated Soil Slope: Centrifuge and Numerical Study. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	3.0	26
42	A new artificial root system to simulate the effects of transpiration-induced suction and root reinforcement. <i>Japanese Geotechnical Society Special Publication</i> , 2016, 2, 236-240.	0.2	3
43	A New Model Concrete for Reduced-Scale Model Tests of Energy Geo-Structures. , 2016, , .		4
44	Grass evapotranspiration-induced suction in slope: case study. <i>Environmental Geotechnics</i> , 2016, 3, 155-165.	2.3	10
45	A new and simple water retention model for root-permeated soils. <i>Geotechnique Letters</i> , 2016, 6, 106-111.	1.2	72
46	Effects of planting density on tree growth and induced soil suction. <i>Geotechnique</i> , 2016, 66, 711-724.	4.0	101
47	Field investigation of deformation characteristics and stress mobilisation of a soil slope. <i>Landslides</i> , 2016, 13, 229-240.	5.4	26
48	Centrifuge modelling of the effects of root geometry on transpiration-induced suction and stability of vegetated slopes. <i>Landslides</i> , 2016, 13, 925-938.	5.4	68
49	Comparisons of Different Suction Control Techniques by Water Retention Curves: Theoretical and Experimental Studies. <i>Vadose Zone Journal</i> , 2015, 14, 1-9.	2.2	8
50	Effects of plant roots on soil-water retention and induced suction in vegetated soil. <i>Engineering Geology</i> , 2015, 193, 183-197.	6.3	186
51	Effects of the roots of <i>Cynodon dactylon</i> and <i>Schefflera heptaphylla</i> on water infiltration rate and soil hydraulic conductivity. <i>Hydrological Processes</i> , 2015, 29, 3342-3354.	2.6	179
52	Pilot trial study of a compact macro-filtration membrane bioreactor process for saline wastewater treatment. <i>Water Science and Technology</i> , 2014, 70, 120-126.	2.5	11
53	A Novel Root System for Simulating Transpiration-Induced Soil Suction in Centrifuge. <i>Geotechnical Testing Journal</i> , 2014, 37, 20130116.	1.0	23
54	Seasonal movement and groundwater flow mechanism in an unsaturated saprolitic hillslope. <i>Landslides</i> , 2013, 10, 455-467.	5.4	36

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55	Measurements of Drying and Wetting Permeability Functions Using a New Stress-Controllable Soil Column. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 58-68.	3.0	104
56	Plant age effects on soil infiltration rate during early plant establishment. Geotechnique, 0, , 1-7.	4.0	22