

# 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	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
2	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
3	Measurements of Drying and Wetting Permeability Functions Using a New Stress-Controllable Soil Column. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 58-68.	3.0	104
4	Effects of planting density on tree growth and induced soil suction. <i>Geotechnique</i> , 2016, 66, 711-724.	4.0	101
5	A new and simple water retention model for root-permeated soils. <i>Geotechnique Letters</i> , 2016, 6, 106-111.	1.2	72
6	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
7	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
8	Unsaturated hydraulic properties of vegetated soil under single and mixed planting conditions. <i>Geotechnique</i> , 2019, 69, 554-559.	4.0	48
9	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
10	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
11	Seasonal movement and groundwater flow mechanism in an unsaturated saprolitic hillslope. <i>Landslides</i> , 2013, 10, 455-467.	5.4	36
12	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
13	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
14	Hydro-mechanical reinforcements of live poles to slope stability. <i>Soils and Foundations</i> , 2018, 58, 1423-1434.	3.1	27
15	Field investigation of deformation characteristics and stress mobilisation of a soil slope. <i>Landslides</i> , 2016, 13, 229-240.	5.4	26
16	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
17	Monotonic and cyclic behaviour of root-reinforced sand. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1915-1927.	2.8	24
18	Hydrologic reinforcement induced by contrasting woody species during summer and winter. <i>Plant and Soil</i> , 2018, 427, 369-390.	3.7	23

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19	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
20	A Novel Root System for Simulating Transpiration-Induced Soil Suction in Centrifuge. <i>Geotechnical Testing Journal</i> , 2014, 37, 20130116.	1.0	23
21	Plant age effects on soil infiltration rate during early plant establishment. <i>Geotechnique</i> , 0, , 1-7.	4.0	22
22	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
23	Mechanisms of hydrogen sulfide removal by ground granulated blast furnace slag amended soil. <i>Chemosphere</i> , 2017, 175, 425-430.	8.2	19
24	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
25	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
26	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
27	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
28	A study on effects of leaf and root characteristics on plant root water uptake. <i>Geotechnique</i> , 2019, 69, 151-157.	4.0	14
29	Small-scale modelling of root-soil interaction of trees under lateral loads. <i>Plant and Soil</i> , 2020, 456, 289-305.	3.7	14
30	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
31	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
32	Energy-Based Assessment of Liquefaction Resistance of Rooted Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	3.0	11
33	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
34	Shearing behaviour of vegetated soils with growing and decaying roots. <i>Canadian Geotechnical Journal</i> , 2022, 59, 2067-2084.	2.8	11
35	Grass evapotranspiration-induced suction in slope: case study. <i>Environmental Geotechnics</i> , 2016, 3, 155-165.	2.3	10
36	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

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37	Three-Dimensional Physical and Numerical Modelling of Fracturing and Deformation Behaviour of Mining-Induced Rock Slopes. Applied Sciences (Switzerland), 2019, 9, 1360.	2.5	10
38	Centrifuge modelling of the use of discretely spaced energy pile row to reinforce unsaturated silt. Geotechnique, 2022, 72, 618-631.	4.0	10
39	Effects of thermal boundary condition on methane oxidation in landfill cover soil at different ambient temperatures. Science of the Total Environment, 2019, 692, 490-502.	8.0	9
40	Seepage characteristics of three-layered landfill cover system constituting fly-ash under extreme ponding condition. Science of the Total Environment, 2021, 758, 143683.	8.0	9
41	Thermally induced ratcheting of a thermo-active reinforced concrete pile in sand under sustained lateral load. Geotechnique, 2023, 73, 826-839.	4.0	9
42	Comparisons of Different Suction Control Techniques by Water Retention Curves: Theoretical and Experimental Studies. Vadose Zone Journal, 2015, 14, 1-9.	2.2	8
43	Experimental investigation on water release and gas emission of evapotranspirative capillary barrier landfill covers. Soil Science Society of America Journal, 2022, 86, 311-323.	2.2	8
44	Infiltration through an Artificially Hydrophobized Silica Sand Barrier. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	7
45	Temperature Effects on the Hydraulic Properties of Unsaturated Sand and Their Influences on Water-Vapor Heat Transport. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	6
46	Nonlinear Lateral Response of RC Pile in Sand: Centrifuge and Numerical Modeling. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, 04021031.	3.0	6
47	Exploring relations between plant photochemical quantum parameters and unsaturated soil water retention for biochars and pith amended soils. Science of the Total Environment, 2022, 804, 150251.	8.0	6
48	Hydromechanical behavior of unsaturated artificially hydrophobized sand: Compression, shearing, and dilatancy. Engineering Geology, 2021, 291, 106223.	6.3	5
49	A New Method for Simultaneous Measurements of Gas Dispersion Coefficient and Gas Coefficient of Permeability of Unsaturated Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	5
50	A New Model Concrete for Reduced-Scale Model Tests of Energy Geo-Structures. , 2016, , .		4
51	Role of hydromechanical properties of plant roots in unsaturated soil shear strength. Japanese Geotechnical Society Special Publication, 2019, 7, 133-138.	0.2	4
52	A new artificial root system to simulate the effects of transpiration-induced suction and root reinforcement. Japanese Geotechnical Society Special Publication, 2016, 2, 236-240.	0.2	3
53	Critical state of polymer-coated sands. Geotechnique, 2020, 70, 839-841.	4.0	3
54	Modifying the mechanical properties of sand by using different hydrophobic conditions. Acta Geotechnica, 2022, 17, 3783-3797.	5.7	2

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55	Hydromechanical behaviour of hydrophobised soils of varying degrees of saturation: a comprehensive review. E3S Web of Conferences, 2020, 195, 03042.	0.5	1
56	Non-equilibrium seepage characteristics and stability analysis of macroporous soil slope under water level changes. Arabian Journal of Geosciences, 2022, 15, .	1.3	1