

Chao Zhou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

888

citations

17

h-index

27

g-index

71

ext. papers

1,192

ext. citations

3.5

avg, IF

5.18

L-index

#	Paper	IF	Citations
66	Resilient modulus of unsaturated subgrade soil: experimental and theoretical investigations. <i>Canadian Geotechnical Journal</i> , 2013 , 50, 223-232	3.2	92
65	Effects of planting density on tree growth and induced soil suction. <i>Geotechnique</i> , 2016 , 66, 711-724	3.4	67
64	Cyclic behaviour of an unsaturated silt at various suctions and temperatures. <i>Geotechnique</i> , 2014 , 64, 709-720	3.4	51
63	A new and simple stress-dependent water retention model for unsaturated soil. <i>Computers and Geotechnics</i> , 2014 , 62, 216-222	4.4	49
62	Effects of soil structure on the shear behaviour of an unsaturated loess at different suctions and temperatures. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 270-279	3.2	48
61	Volume change behaviour of saturated sand under thermal cycles. <i>Geotechnique Letters</i> , 2016 , 6, 124-131	7	33
60	A thermomechanical model for saturated soil at small and large strains. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 1101-1110	3.2	30
59	Gas breakthrough and emission through unsaturated compacted clay in landfill final cover. <i>Waste Management</i> , 2015 , 44, 155-63	8.6	28
58	Effects of specimen preparation method on the volume change of clay under cyclic thermal loads. <i>Geotechnique</i> , 2019 , 69, 146-150	3.4	28
57	Characterising the resilient behaviour of pavement subgrade with construction and demolition waste under Freeze-thaw cycles. <i>Journal of Cleaner Production</i> , 2021 , 300, 126702	10.3	27
56	Compression and wetting induced volumetric behavior of loess: Macro- and micro-investigations. <i>Transportation Geotechnics</i> , 2020 , 23, 100345	4	23
55	A new thermo-mechanical model for structured soil. <i>Geotechnique</i> , 2018 , 68, 1109-1115	3.4	23
54	Comparisons of weathered lateritic, granitic and volcanic soils: Compressibility and shear strength. <i>Engineering Geology</i> , 2019 , 249, 235-240	6	22
53	Small Strain Path-Dependent Stiffness of Toyoura Sand: Laboratory Measurement and Numerical Implementation. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016036	3.1	21
52	Volume changes of an unsaturated clay during heating and cooling. <i>Geotechnique Letters</i> , 2016 , 6, 192-198	7	20
51	Simulating the cyclic behaviour of unsaturated soil at various temperatures using a bounding surface model. <i>Geotechnique</i> , 2016 , 66, 344-350	3.4	20
50	Effect of microstructure on shear strength and dilatancy of unsaturated loess at high suctions. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 221-235	3.2	18

49	A bounding surface plasticity model for unsaturated soil at small strains. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015 , 39, 1141-1164	4	17
48	Effects of Temperature and Suction on Plastic Deformation of Unsaturated Silt under Cyclic Loads. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04016170	3	17
47	Effect of specimen preparation techniques on dynamic properties of unsaturated fine-grained soil at high suctions. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1310-1319	3.2	15
46	A new model for capturing void ratio-dependent unfrozen water characteristics curves. <i>Computers and Geotechnics</i> , 2018 , 101, 95-99	4.4	15
45	An approach for modelling volume change of fine-grained soil subjected to thermal cycles. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 896-901	3.2	14
44	Use of unsaturated small-strain soil stiffness to the design of wall deflection and ground movement adjacent to deep excavation. <i>Computers and Geotechnics</i> , 2020 , 119, 103375	4.4	14
43	A new bounding surface model for thermal cyclic behaviour. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017 , 41, 1656-1666	4	13
42	Effects of temperature and suction on secant shear modulus of unsaturated soil. <i>Geotechnique Letters</i> , 2015 , 5, 123-128	1.7	13
41	Thermal effects on yielding and wetting-induced collapse of recompacted and intact loess. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 1095-1103	3.2	12
40	Effects of boundary conditions on cyclic thermal strains of clay and sand. <i>Geotechnique Letters</i> , 2017 , 7, 73-78	1.7	11
39	Small strain shear moduli of unsaturated natural and compacted loess. <i>Geotechnique</i> , 2017 , 67, 646-651	3.4	10
38	A new water retention model that considers pore non-uniformity and evolution of pore size distribution. <i>Bulletin of Engineering Geology and the Environment</i> , 2019 , 78, 5055-5065	4	10
37	An explicit one-dimensional consolidation solution with semi-permeable drainage boundary for unsaturated soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020 , 44, 2241-2253	4	9
36	The stress-strain behaviour and critical state parameters of an unsaturated granular fill material under different suctions. <i>Acta Geotechnica</i> , 2020 , 15, 3383-3398	4.9	8
35	Influence of structure on the compression and shear behaviour of a saturated lateritic clay. <i>Acta Geotechnica</i> , 2020 , 15, 3433-3441	4.9	8
34	Constitutive modelling of state-dependent behaviour of unsaturated soils: an overview. <i>Acta Geotechnica</i> , 2020 , 15, 2705-2725	4.9	8
33	Modelling the water retention behaviour of anisotropic soils. <i>Journal of Hydrology</i> , 2021 , 599, 126361	6	8
32	Modelling volume changes of sand under thermal loads: a preliminary attempt. <i>Geotechnique Letters</i> , 2017 , 7, 68-72	1.7	7

31	Influence of biopolymer on gas permeability in compacted clay at different densities and water contents. <i>Engineering Geology</i> , 2020 , 272, 105631	6	6
30	Water-retention curves of loess under wetting-drying cycles. <i>Geotechnique Letters</i> , 2020 , 10, 135-140	1.7	6
29	A new simple and low-cost air permeameter for unsaturated soils. <i>Soil and Tillage Research</i> , 2021 , 213, 105083	6.5	6
28	Stress Effects on Soil Freezing Characteristic Curve: Equipment Development and Experimental Results. <i>Vadose Zone Journal</i> , 2019 , 18, 1-10	2.7	5
27	Effects of temperature and suction on secant shear modulus of unsaturated soil. <i>Geotechnique Letters</i> , 2015 , 5, 123-128	1.7	4
26	A water retention model considering biopolymer-soil interactions. <i>Journal of Hydrology</i> , 2020 , 586, 124874	3.4	4
25	Effects of soil structure on thermal softening of yield stress. <i>Engineering Geology</i> , 2020 , 269, 105544	6	4
24	Modelling effects of recent suction history on small-strain stiffness of unsaturated soil. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 600-610	3.2	4
23	Comparisons of Different Suction Control Techniques by Water Retention Curves: Theoretical and Experimental Studies. <i>Vadose Zone Journal</i> , 2015 , 14, vzt2015.01.0006	2.7	4
22	Experimental study of hydromechanical behaviour of a compacted lateritic sandy lean clay. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 1695-1703	3.2	4
21	Effects of sesquioxide content on stress-dependent water retention behaviour of weathered soils. <i>Engineering Geology</i> , 2020 , 266, 105455	6	4
20	A bounding surface model for saturated and unsaturated soil-structure interfaces. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020 , 44, 2412-2429	4	4
19	Effects of biofilm on gas permeability of unsaturated sand. <i>Geotechnique</i> , 2019 , 69, 917-923	3.4	4
18	Thermal effects on water retention behaviour of unsaturated collapsible loess. <i>Journal of Soils and Sediments</i> , 2020 , 20, 756-762	3.4	4
17	A state-dependent constitutive model for methane hydrate-bearing sediments inside the stability region. <i>Geotechnique</i> , 2020 , 70, 1094-1108	3.4	3
16	A simple model for the hysteretic elastic shear modulus of unsaturated soils. <i>Journal of Zhejiang University: Science A</i> , 2016 , 17, 589-596	2.1	2
15	Effects of clay content on the volumetric behavior of loess under heating-cooling cycles. <i>Journal of Zhejiang University: Science A</i> , 2019 , 20, 979-990	2.1	2
14	Effects of Clogging on Settlement Predictions of Ground Improved with Stone Columns. <i>KSCE Journal of Civil Engineering</i> , 2019 , 23, 3889-3896	1.9	1

13	Engineering applications and case histories: Field testing 2015 , 689-758		1
12	Experimental Investigations on the State-Dependent Thermal Conductivity of Sand-Rubber Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2022 , 34,	3	1
11	Plastic Deformations of Unsaturated Fine-Grained Soils Under Cyclic Thermo-Mechanical Loads. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017 , 14-28	0.1	1
10	A Double Cell Triaxial Apparatus for Testing Unsaturated Soil Under Heating and Cooling. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017 , 191-198	0.1	1
9	Calculation of the representative temperature change for the thermomechanical design of energy piles. <i>Geomechanics for Energy and the Environment</i> , 2021 , 29, 100264	3.7	1
8	Volume change behaviour of a saturated lateritic clay under thermal cycles. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 653-661	4	1
7	Prediction of resilient modulus for subgrade soils based on ANN approach. <i>Journal of Central South University</i> , 2021 , 28, 898-910	2.1	0
6	Small strain shear modulus and damping ratio of two unsaturated lateritic sandy clays. <i>Canadian Geotechnical Journal</i> , 2021 , 58, 1426-1435	3.2	0
5	Coupled effects of stress state and void ratio on thermal conductivity of saturated soils. <i>Geotechnique Letters</i> , 2022 , 12, 1-6	1.7	0
4	Particle breakage investigation of construction waste recycled aggregates in subgrade application scenario. <i>Powder Technology</i> , 2022 , 117448	5.2	0
3	Reply to the discussion by Ren and Vanapalli on α new model for capturing void ratio-dependent unfrozen water characteristics curves \square <i>Computers and Geotechnics</i> , 2018 , 103, 151-152	4.4	
2	Effects of Soil Fabric on Volume Change Behaviour of Clay Under Cyclic Heating and Cooling. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018 , 582-585	0.1	
1	Effects of Soil Fabric on the Thermal Expansion Coefficient of Clay with Reference to the Crack Formation in Landfill Barriers. <i>Environmental Science and Engineering</i> , 2019 , 583-588	0.2	