## Sheng Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Assessing frost susceptibility of soils using PCHeave. Cold Regions Science and Technology, 2013, 95, 27-38.	3.5	95
2	Importance of vapor flow in unsaturated freezing soil: a numerical study. Cold Regions Science and Technology, 2016, 126, 1-9.	3.5	73
3	Analysis of frost heave mechanisms in a high-speed railway embankment. Canadian Geotechnical Journal, 2016, 53, 520-529.	2.8	73
4	A simple thermo-elastoplastic model for geomaterials. International Journal of Plasticity, 2012, 34, 93-113.	8.8	58
5	Parameterization of soil freezing characteristic curve for unsaturated soils. Cold Regions Science and Technology, 2020, 170, 102928.	3.5	51
6	The compaction effect on the performance of a compaction-grouted soil nail in sand. Acta Geotechnica, 2020, 15, 2983-2995.	5.7	39
7	Particle breakage of uniformly graded carbonate sands in dry/wet condition subjected to compression/shear tests. Acta Geotechnica, 2020, 15, 2379-2394.	5.7	37
8	A stochastic particle breakage model for granular soils subjected to one-dimensional compression with emphasis on the evolution of coordination number. Computers and Geotechnics, 2019, 112, 72-80.	4.7	36
9	A coupled model for liquid water-vapor-heat migration in freezing soils. Cold Regions Science and Technology, 2018, 148, 22-28.	3.5	35
10	An analytical model for evaporation from unsaturated soil. Computers and Geotechnics, 2019, 108, 107-116.	4.7	34
11	Modelling water content redistribution during evaporation from sandy soil in the presence of water table. Computers and Geotechnics, 2016, 75, 210-224.	4.7	31
12	Modelling frost heave in unsaturated coarse-grained soils. Acta Geotechnica, 2020, 15, 3307-3320.	5.7	31
13	A Thermo-Elasto-Viscoplastic Model for Soft Sedimentary Rock. Soils and Foundations, 2009, 49, 583-595.	3.1	29
14	A unified thermo-elasto-viscoplastic model for soft rock. International Journal of Rock Mechanics and Minings Sciences, 2017, 93, 1-12.	5.8	29
15	Generalising the Kozeny-Carman equation to frozen soils. Journal of Hydrology, 2021, 594, 125885.	5.4	23
16	A mathematic model for the soil freezing characteristic curve: the roles of adsorption and capillarity. Cold Regions Science and Technology, 2021, 181, 103178.	3.5	21
17	Thermo-elastoplastic constitutive model for unsaturated soils. Acta Geotechnica, 2016, 11, 1287-1302.	5.7	18
18	Evaluating the Influence of Specimen Preparation on Saturated Hydraulic Conductivity Using Nuclear Magnetic Resonance Technology. Vadose Zone Journal, 2019, 18, 1-7.	2.2	18

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19	Modification of thermo-elasto-viscoplastic model for soft rock and its application to THM analysis of heating tests. Soils and Foundations, 2014, 54, 176-196.	3.1	17
20	Experimental study of particle migration under cyclic loading: effects of load frequency and load magnitude. Acta Geotechnica, 2021, 16, 367-380.	5.7	17
21	Negative Effect of Installation on Performance of a Compaction-Grouted Soil Nail in Poorly Graded Stockton Beach Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	17
22	A simple particle-size distribution model for granular materials. Canadian Geotechnical Journal, 2018, 55, 246-257.	2.8	16
23	New Method to Evaluate Strengthen Efficiency by Dynamic Compaction. International Journal of Geomechanics, 2020, 20, .	2.7	16
24	An analysis of vapour transfer in unsaturated freezing soils. Cold Regions Science and Technology, 2020, 169, 102914.	3.5	14
25	Particle breakage of granular soils: changing critical state line and constitutive modelling. Acta Geotechnica, 2022, 17, 755-768.	5.7	14
26	Wave-packet behaviors of the defocusing nonlinear Schrödinger equation based on the modified physics-informed neural networks. Chaos, 2021, 31, 113107.	2.5	14
27	A mathematical model of tortuosity in soil considering particle arrangement. Vadose Zone Journal, 2020, 19, e20004.	2.2	13
28	Frost Heave in Coarse-grained Soils: Experimental Evidence and Numerical modelling. Geotechnique, 0, , 1-43.	4.0	13
29	Thermo-elastoplastic Model for Soft Rock Considering Effects of Structure and Overconsolidation. Rock Mechanics and Rock Engineering, 2018, 51, 3771-3784.	5.4	12
30	A unified thermal-hardening and thermal-softening constitutive model of soils. Applied Mathematical Modelling, 2019, 74, 73-84.	4.2	12
31	Evolution of mechanical properties of soils subsequent to a pile jacked in natural saturated clays. Ocean Engineering, 2017, 136, 209-217.	4.3	11
32	Thermo-hydro-mechanical-air coupling finite element method and its application to multi-phase problems. Journal of Rock Mechanics and Geotechnical Engineering, 2014, 6, 77-98.	8.1	10
33	Long-term setup of a displacement pile in clay: An analytical framework. Ocean Engineering, 2020, 218, 108143.	4.3	10
34	An Investigation of the Influence of Reconsolidation Properties on the Reliquefaction Resistance of Sand by Element Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	9
35	A breakage matrix methodology to predict particle size evolution of calcareous sands. Powder Technology, 2022, 407, 117626.	4.2	8
36	On compression behavior and particle breakage of carbonate silty sands. Engineering Geology, 2022, 297, 106492.	6.3	7

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37	A theoretical method for determining sample mass in a sieving test. Computers and Geotechnics, 2017, 91, 12-16.	4.7	6
38	A New Strength Criterion for Frozen Soil Considering Pore Ice Content. International Journal of Geomechanics, 2022, 22, .	2.7	6
39	Physics-informed neural networks for consolidation of soils. Engineering Computations, 2022, 39, 2845-2865.	1.4	5
40	Effect of temperature on the time-dependent behavior of geomaterials. Comptes Rendus - Mecanique, 2016, 344, 603-611.	2.1	4
41	A thermo-elastoplastic model for soft rocks considering structure. Comptes Rendus - Mecanique, 2017, 345, 752-763.	2.1	4
42	Numerical Study of the Dynamic Compaction Process considering the Phenomenon of Particle Breakage. Advances in Civil Engineering, 2018, 2018, 1-10.	0.7	4
43	Pumping effect of rainfall-induced excess pore pressure on particle migration. Transportation Geotechnics, 2021, 31, 100669.	4.5	4
44	Experimental evaluation of the performance of a geotextile for a pressure-grouted soil nail. Geotextiles and Geomembranes, 2022, 50, 498-509.	4.6	4
45	A semi-analytical model for a compaction-grouted soil nail with double grout bulbs considering compaction effect in sand. Transportation Geotechnics, 2021, 31, 100670.	4.5	3
46	Experimental Study on Migration Behavior of Sandy Silt under Cyclic Load. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	3
47	New constructive model for structures soil. Geomechanics and Engineering, 2016, 11, 725-738.	0.9	2
48	A new structured subloading cam clay model. Japanese Geotechnical Society Special Publication, 2015, 1, 61-65.	0.2	1
49	Numerical Modelling of Vapour-Ice Desublimation Process in Unsaturated Freezing Soils. Environmental Science and Engineering, 2019, , 560-568.	0.2	1
50	A new criterion for vapour induced ice lens initiation in coarse-grained soils. Cold Regions Science and Technology, 2022, 199, 103575.	3.5	1
51	A frost heave model of unsaturated coarse-grained soil considering vapour transfer. E3S Web of Conferences, 2020, 195, 02017.	0.5	0
52	A Numerical Model of Vapour Transfer and Phase Change in Unsaturated Freezing Soils. Advances in Civil Engineering, 2020, 2020, 1-11.	0.7	0
53	A Semi-analytical Model for a Compaction-Grouted Soil Nail with Grout Bulb. Sustainable Civil Infrastructures, 2021, , 57-70.	0.2	0
54	Particle Breakage Observed in Both Transitional and Non-transitional Carbonate Sands. Lecture Notes in Civil Engineering, 2022, , 935-943.	0.4	0

#	Article	IF	CITATIONS
55	Constitutive Modelling of Temperature-Dependent Behaviour of Soft Rocks with Fractional-Order Flow Rule. Applied Sciences (Switzerland), 2022, 12, 3875.	2.5	0