

# Sheng Zhang

## List of Publications by Year in descending order

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55  
papers

1,009  
citations

471509

17  
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477307

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55  
docs citations

55  
times ranked

588  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle breakage of granular soils: changing critical state line and constitutive modelling. <i>Acta Geotechnica</i> , 2022, 17, 755-768.	5.7	14
2	Particle Breakage Observed in Both Transitional and Non-transitional Carbonate Sands. <i>Lecture Notes in Civil Engineering</i> , 2022, , 935-943.	0.4	0
3	On compression behavior and particle breakage of carbonate silty sands. <i>Engineering Geology</i> , 2022, 297, 106492.	6.3	7
4	An Investigation of the Influence of Reconsolidation Properties on the Reliquefaction Resistance of Sand by Element Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	3.0	9
5	Experimental Study on Migration Behavior of Sandy Silt under Cyclic Load. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	3.0	3
6	Experimental evaluation of the performance of a geotextile for a pressure-grouted soil nail. <i>Geotextiles and Geomembranes</i> , 2022, 50, 498-509.	4.6	4
7	Constitutive Modelling of Temperature-Dependent Behaviour of Soft Rocks with Fractional-Order Flow Rule. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3875.	2.5	0
8	A New Strength Criterion for Frozen Soil Considering Pore Ice Content. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	6
9	A new criterion for vapour induced ice lens initiation in coarse-grained soils. <i>Cold Regions Science and Technology</i> , 2022, 199, 103575.	3.5	1
10	A breakage matrix methodology to predict particle size evolution of calcareous sands. <i>Powder Technology</i> , 2022, 407, 117626.	4.2	8
11	Physics-informed neural networks for consolidation of soils. <i>Engineering Computations</i> , 2022, 39, 2845-2865.	1.4	5
12	A mathematic model for the soil freezing characteristic curve: the roles of adsorption and capillarity. <i>Cold Regions Science and Technology</i> , 2021, 181, 103178.	3.5	21
13	Experimental study of particle migration under cyclic loading: effects of load frequency and load magnitude. <i>Acta Geotechnica</i> , 2021, 16, 367-380.	5.7	17
14	A Semi-analytical Model for a Compaction-Grouted Soil Nail with Grout Bulb. <i>Sustainable Civil Infrastructures</i> , 2021, , 57-70.	0.2	0
15	Generalising the Kozeny-Carman equation to frozen soils. <i>Journal of Hydrology</i> , 2021, 594, 125885.	5.4	23
16	A semi-analytical model for a compaction-grouted soil nail with double grout bulbs considering compaction effect in sand. <i>Transportation Geotechnics</i> , 2021, 31, 100670.	4.5	3
17	Pumping effect of rainfall-induced excess pore pressure on particle migration. <i>Transportation Geotechnics</i> , 2021, 31, 100669.	4.5	4
18	Wave-packet behaviors of the defocusing nonlinear Schrödinger equation based on the modified physics-informed neural networks. <i>Chaos</i> , 2021, 31, 113107.	2.5	14

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19	An analysis of vapour transfer in unsaturated freezing soils. Cold Regions Science and Technology, 2020, 169, 102914.	3.5	14
20	Parameterization of soil freezing characteristic curve for unsaturated soils. Cold Regions Science and Technology, 2020, 170, 102928.	3.5	51
21	Long-term setup of a displacement pile in clay: An analytical framework. Ocean Engineering, 2020, 218, 108143.	4.3	10
22	A frost heave model of unsaturated coarse-grained soil considering vapour transfer. E3S Web of Conferences, 2020, 195, 02017.	0.5	0
23	A Numerical Model of Vapour Transfer and Phase Change in Unsaturated Freezing Soils. Advances in Civil Engineering, 2020, 2020, 1-11.	0.7	0
24	The compaction effect on the performance of a compaction-grouted soil nail in sand. Acta Geotechnica, 2020, 15, 2983-2995.	5.7	39
25	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
26	A mathematical model of tortuosity in soil considering particle arrangement. Vadose Zone Journal, 2020, 19, e20004.	2.2	13
27	New Method to Evaluate Strengthen Efficiency by Dynamic Compaction. International Journal of Geomechanics, 2020, 20, .	2.7	16
28	Modelling frost heave in unsaturated coarse-grained soils. Acta Geotechnica, 2020, 15, 3307-3320.	5.7	31
29	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
30	A unified thermal-hardening and thermal-softening constitutive model of soils. Applied Mathematical Modelling, 2019, 74, 73-84.	4.2	12
31	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
32	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
33	An analytical model for evaporation from unsaturated soil. Computers and Geotechnics, 2019, 108, 107-116.	4.7	34
34	Numerical Modelling of Vapour-Ice Desublimation Process in Unsaturated Freezing Soils. Environmental Science and Engineering, 2019, , 560-568.	0.2	1
35	A coupled model for liquid water-vapor-heat migration in freezing soils. Cold Regions Science and Technology, 2018, 148, 22-28.	3.5	35
36	A simple particle-size distribution model for granular materials. Canadian Geotechnical Journal, 2018, 55, 246-257.	2.8	16

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37	Numerical Study of the Dynamic Compaction Process considering the Phenomenon of Particle Breakage. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-10.	0.7	4
38	Thermo-elastoplastic Model for Soft Rock Considering Effects of Structure and Overconsolidation. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3771-3784.	5.4	12
39	A unified thermo-elasto-viscoplastic model for soft rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 93, 1-12.	5.8	29
40	Evolution of mechanical properties of soils subsequent to a pile jacked in natural saturated clays. <i>Ocean Engineering</i> , 2017, 136, 209-217.	4.3	11
41	A thermo-elastoplastic model for soft rocks considering structure. <i>Comptes Rendus - Mecanique</i> , 2017, 345, 752-763.	2.1	4
42	A theoretical method for determining sample mass in a sieving test. <i>Computers and Geotechnics</i> , 2017, 91, 12-16.	4.7	6
43	Modelling water content redistribution during evaporation from sandy soil in the presence of water table. <i>Computers and Geotechnics</i> , 2016, 75, 210-224.	4.7	31
44	Importance of vapor flow in unsaturated freezing soil: a numerical study. <i>Cold Regions Science and Technology</i> , 2016, 126, 1-9.	3.5	73
45	Effect of temperature on the time-dependent behavior of geomaterials. <i>Comptes Rendus - Mecanique</i> , 2016, 344, 603-611.	2.1	4
46	Thermo-elastoplastic constitutive model for unsaturated soils. <i>Acta Geotechnica</i> , 2016, 11, 1287-1302.	5.7	18
47	Analysis of frost heave mechanisms in a high-speed railway embankment. <i>Canadian Geotechnical Journal</i> , 2016, 53, 520-529.	2.8	73
48	New constructive model for structures soil. <i>Geomechanics and Engineering</i> , 2016, 11, 725-738.	0.9	2
49	A new structured subloading cam clay model. <i>Japanese Geotechnical Society Special Publication</i> , 2015, 1, 61-65.	0.2	1
50	Modification of thermo-elasto-viscoplastic model for soft rock and its application to THM analysis of heating tests. <i>Soils and Foundations</i> , 2014, 54, 176-196.	3.1	17
51	Thermo-hydro-mechanical-air coupling finite element method and its application to multi-phase problems. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2014, 6, 77-98.	8.1	10
52	Assessing frost susceptibility of soils using PCHeave. <i>Cold Regions Science and Technology</i> , 2013, 95, 27-38.	3.5	95
53	A simple thermo-elastoplastic model for geomaterials. <i>International Journal of Plasticity</i> , 2012, 34, 93-113.	8.8	58
54	A Thermo-Elasto-Viscoplastic Model for Soft Sedimentary Rock. <i>Soils and Foundations</i> , 2009, 49, 583-595.	3.1	29

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55	Frost Heave in Coarse-grained Soils: Experimental Evidence and Numerical modelling. <i>Geotechnique</i> , 0, 1-43.	4.0	13