

# Sheng Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

2,164  
citations

331670

21  
h-index

254184

43  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3353  
citing authors

#	ARTICLE	IF	CITATIONS
1	False negative of RT-PCR and prolonged nucleic acid conversion in COVID-19: Rather than recurrence. <i>Journal of Medical Virology</i> , 2020, 92, 1755-1756.	5.0	435
2	Profile of RT-PCR for SARS-CoV-2: A Preliminary Study From 56 COVID-19 Patients. <i>Clinical Infectious Diseases</i> , 2020, 71, 2249-2251.	5.8	206
3	Dynamic profile of RT-PCR findings from 301 COVID-19 patients in Wuhan, China: A descriptive study. <i>Journal of Clinical Virology</i> , 2020, 127, 104346.	3.1	150
4	Assessing frost susceptibility of soils using PCHeave. <i>Cold Regions Science and Technology</i> , 2013, 95, 27-38.	3.5	95
5	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
6	Analysis of frost heave mechanisms in a high-speed railway embankment. <i>Canadian Geotechnical Journal</i> , 2016, 53, 520-529.	2.8	73
7	A simple thermo-elastoplastic model for geomaterials. <i>International Journal of Plasticity</i> , 2012, 34, 93-113.	8.8	58
8	Parameterization of soil freezing characteristic curve for unsaturated soils. <i>Cold Regions Science and Technology</i> , 2020, 170, 102928.	3.5	51
9	Thiophene-Based Double Helices: Syntheses, X-ray Structures, and Chiroptical Properties. <i>Journal of the American Chemical Society</i> , 2016, 138, 10002-10010.	13.7	39
10	The compaction effect on the performance of a compaction-grouted soil nail in sand. <i>Acta Geotechnica</i> , 2020, 15, 2983-2995.	5.7	39
11	Particle breakage of uniformly graded carbonate sands in dry/wet condition subjected to compression/shear tests. <i>Acta Geotechnica</i> , 2020, 15, 2379-2394.	5.7	37
12	Fullerene Adducts Bearing Cyano Moiety for Both High Dielectric Constant and Good Active Layer Morphology of Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2016, 26, 6107-6113.	14.9	36
13	A stochastic particle breakage model for granular soils subjected to one-dimensional compression with emphasis on the evolution of coordination number. <i>Computers and Geotechnics</i> , 2019, 112, 72-80.	4.7	36
14	A coupled model for liquid water-vapor-heat migration in freezing soils. <i>Cold Regions Science and Technology</i> , 2018, 148, 22-28.	3.5	35
15	An analytical model for evaporation from unsaturated soil. <i>Computers and Geotechnics</i> , 2019, 108, 107-116.	4.7	34
16	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
17	Modelling frost heave in unsaturated coarse-grained soils. <i>Acta Geotechnica</i> , 2020, 15, 3307-3320.	5.7	31
18	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

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19	Critical dynamic stress and shakedown limit criterion of coarse-grained subgrade soil. <i>Transportation Geotechnics</i> , 2020, 23, 100354.	4.5	26
20	A unified constitutive model for unsaturated soil under monotonic and cyclic loading. <i>Acta Geotechnica</i> , 2019, 14, 313-328.	5.7	25
21	Synthesis and Structure of Bullâ€™s Horn-Shaped Oligothienoacene with Seven Fused Thiophene Rings. <i>Journal of Organic Chemistry</i> , 2013, 78, 6271-6275.	3.2	24
22	Generalising the Kozeny-Carman equation to frozen soils. <i>Journal of Hydrology</i> , 2021, 594, 125885.	5.4	23
23	Risk assessment model of tunnel water inrush based on improved attribute mathematical theory. <i>Journal of Central South University</i> , 2018, 25, 379-391.	3.0	22
24	High level of unmet needs and anxiety are associated with delayed initiation of adjuvant chemotherapy for colorectal cancer patients. <i>Supportive Care in Cancer</i> , 2020, 28, 5299-5306.	2.2	21
25	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
26	A generalized Hellinger-Reissner variational principle and its PFEM formulation for dynamic analysis of saturated porous media. <i>Computers and Geotechnics</i> , 2021, 132, 103994.	4.7	21
27	Nth-order rogue waves for the AB system via the determinants. <i>Applied Mathematics Letters</i> , 2021, 112, 106714.	2.7	20
28	Cage-Expansion of Fullerenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 12450-12454.	13.7	19
29	Thermo-elastoplastic constitutive model for unsaturated soils. <i>Acta Geotechnica</i> , 2016, 11, 1287-1302.	5.7	18
30	Evaluating the Influence of Specimen Preparation on Saturated Hydraulic Conductivity Using Nuclear Magnetic Resonance Technology. <i>Vadose Zone Journal</i> , 2019, 18, 1-7.	2.2	18
31	Utilization of Coal Gangue Aggregate for Railway Roadbed Construction in Practice. <i>Sustainability</i> , 2020, 12, 4583.	3.2	18
32	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
33	Long-term settlement prediction of high-speed railway bridge pile foundation. <i>Journal of Central South University</i> , 2014, 21, 2415-2424.	3.0	17
34	Seismic Active Earth Pressure for Soils with Tension Cracks. <i>International Journal of Geomechanics</i> , 2019, 19, .	2.7	17
35	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
36	Negative Effect of Installation on Performance of a Compaction-Grouted Soil Nail in Poorly Graded Stockton Beach Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	3.0	17

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37	A simple particle-size distribution model for granular materials. Canadian Geotechnical Journal, 2018, 55, 246-257.	2.8	16
38	New Method to Evaluate Strengthen Efficiency by Dynamic Compaction. International Journal of Geomechanics, 2020, 20, .	2.7	16
39	Polymer Electron Acceptors Based on Iso-Naphthalene Diimide Unit with High LUMO Levels. Macromolecular Chemistry and Physics, 2017, 218, 1600606.	2.2	15
40	Unique relation between pore water pressure generated at the first loading cycle and liquefaction resistance. Engineering Geology, 2022, 296, 106476.	6.3	15
41	An analysis of vapour transfer in unsaturated freezing soils. Cold Regions Science and Technology, 2020, 169, 102914.	3.5	14
42	Experimental Investigation and Numerical Modeling of Coupled Elastoplastic Damage and Permeability of Saturated Hard Rock. Rock Mechanics and Rock Engineering, 2021, 54, 1151-1169.	5.4	14
43	Particle breakage of granular soils: changing critical state line and constitutive modelling. Acta Geotechnica, 2022, 17, 755-768.	5.7	14
44	Wave-packet behaviors of the defocusing nonlinear Schrödinger equation based on the modified physics-informed neural networks. Chaos, 2021, 31, 113107.	2.5	14
45	A mathematical model of tortuosity in soil considering particle arrangement. Vadose Zone Journal, 2020, 19, e20004.	2.2	13
46	Thermo-elastoplastic Model for Soft Rock Considering Effects of Structure and Overconsolidation. Rock Mechanics and Rock Engineering, 2018, 51, 3771-3784.	5.4	12
47	A unified thermal-hardening and thermal-softening constitutive model of soils. Applied Mathematical Modelling, 2019, 74, 73-84.	4.2	12
48	Evolution of mechanical properties of soils subsequent to a pile jacked in natural saturated clays. Ocean Engineering, 2017, 136, 209-217.	4.3	11
49	Designed Polymer Donors to Match an Amorphous Polymer Acceptor in All-Polymer Solar Cells. ACS Applied Electronic Materials, 2020, 2, 2274-2281.	4.3	11
50	Permeability stability calculation model of foam-conditioned soil based on the permeability constant. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 540-559.	3.3	11
51	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
52	Long-term setup of a displacement pile in clay: An analytical framework. Ocean Engineering, 2020, 218, 108143.	4.3	10
53	Unanswered questions in unsaturated soil mechanics. Science China Technological Sciences, 2013, 56, 1257-1272.	4.0	9
54	Thiophene-Based Double Helices: Radical Cations with SOMO HOMO Energy Level Inversion. Photochemistry and Photobiology, 2021, 97, 1376-1390.	2.5	9

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55	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
56	On compression behavior and particle breakage of carbonate silty sands. <i>Engineering Geology</i> , 2022, 297, 106492.	6.3	7
57	From N,N-diphenyl-N-naphtho[2,1-b]thieno[2,3-b:3â€²,2â€²-d]dithiophene-5-yl-amine to propeller-shaped N,N,N-tri(naphtho[2,1-b]thieno[2,3-b:3â€²,2â€²-d]dithiophene-5-yl)-amine: syntheses and structures. <i>Tetrahedron</i> , 2014, 70, 3909-3914.	1.9	6
58	A theoretical method for determining sample mass in a sieving test. <i>Computers and Geotechnics</i> , 2017, 91, 12-16.	4.7	6
59	All-Thiophene-Based Double Helix: Synthesis, Crystal Structure, Chiroptical Property and Arylation. <i>ACS Omega</i> , 2018, 3, 16014-16020.	3.5	6
60	The load transfer mechanism in reinforced piled embankment under cyclic loading and unloading. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 1364-1378.	2.1	6
61	Spatiotemporal distortion effects and interaction properties for certain nonlinear waves of the generalized AB system. <i>Nonlinear Dynamics</i> , 2021, 106, 2415-2429.	5.2	6
62	Peripheral Lymphocyte Subsets Absolute Counts as Feasible Clinical Markers for Predicting Surgical Outcome in Gastric Cancer Patients After Laparoscopic D2 Gastrectomy: A Prospective Cohort Study. <i>Journal of Inflammation Research</i> , 2021, Volume 14, 5633-5646.	3.5	5
63	Numerical investigation on vapor transfer in unsaturated soil during freezing. <i>Japanese Geotechnical Society Special Publication</i> , 2015, 1, 29-34.	0.2	4
64	Effect of temperature on the time-dependent behavior of geomaterials. <i>Comptes Rendus - Mecanique</i> , 2016, 344, 603-611.	2.1	4
65	A thermo-elastoplastic model for soft rocks considering structure. <i>Comptes Rendus - Mecanique</i> , 2017, 345, 752-763.	2.1	4
66	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
67	Pumping effect of rainfall-induced excess pore pressure on particle migration. <i>Transportation Geotechnics</i> , 2021, 31, 100669.	4.5	4
68	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
69	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
70	Thermal Deformation of Cement-Asphalt Mortar under Repetitive Heating and Cooling. <i>Advanced Materials Research</i> , 2013, 639-640, 304-308.	0.3	2
71	CCNI2 plays a promoting role in the progression of colorectal cancer. <i>Cancer Medicine</i> , 2021, 10, 1913-1924.	2.8	2
72	New constructive model for structures soil. <i>Geomechanics and Engineering</i> , 2016, 11, 725-738.	0.9	2

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73	Characterization of Pore Structure of Hardened Cement-Asphalt Paste by Mercury Intrusion Porosimetry. <i>Advanced Materials Research</i> , 0, 1004-1005, 1589-1593.	0.3	1
74	A new structured subloading cam clay model. <i>Japanese Geotechnical Society Special Publication</i> , 2015, 1, 61-65.	0.2	1
75	A New Mechanism of Canopy Effect in Unsaturated Freezing Soils. <i>E3S Web of Conferences</i> , 2016, 9, 16008.	0.5	1
76	High-order irregular dark solitons for the AB system. <i>Physica Scripta</i> , 2021, 96, 105214.	2.5	1
77	Numerical Modelling of Vapour-Ice Desublimation Process in Unsaturated Freezing Soils. <i>Environmental Science and Engineering</i> , 2019, , 560-568.	0.2	1
78	Experimental Study on Compression Modulus of Sandy Soil. , 2013, , .		0
79	A frost heave model of unsaturated coarse-grained soil considering vapour transfer. <i>E3S Web of Conferences</i> , 2020, 195, 02017.	0.5	0
80	A Numerical Model of Vapour Transfer and Phase Change in Unsaturated Freezing Soils. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-11.	0.7	0
81	Implement the particle finite element method in ABAQUS. <i>Japanese Geotechnical Society Special Publication</i> , 2020, 8, 70-75.	0.2	0
82	Numerical Modeling of Water-Vapor Migration and Phase Transformation in Unsaturated Freezing Soils. <i>Lecture Notes in Civil Engineering</i> , 2021, , 925-931.	0.4	0
83	Particle Breakage Observed in Both Transitional and Non-transitional Carbonate Sands. <i>Lecture Notes in Civil Engineering</i> , 2022, , 935-943.	0.4	0
84	Cage-Opened C 60 Isomers with Different Reactivities. <i>Asian Journal of Organic Chemistry</i> , 0, , .	2.7	0