Wansheng Pei

List of Publications by Year in descending order

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201575 243529 2,151 63 27 44 h-index citations g-index papers 63 63 63 808 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Study on theory model of hydro-thermal–mechanical interaction process in saturated freezing silty soil. International Journal of Heat and Mass Transfer, 2014, 78, 805-819.	2.5	215
2	Experimental and numerical analyses of the thermo-mechanical stability of an embankment with shady and sunny slopes in a permafrost region. Applied Thermal Engineering, 2017, 127, 1478-1487.	3.0	93
3	Experimental study on the freezing–thawing deformation of a silty clay. Cold Regions Science and Technology, 2018, 151, 19-27.	1.6	85
4	Experimental and numerical investigations on frost damage mechanism of a canal in cold regions. Cold Regions Science and Technology, 2015, 116, 1-11.	1.6	84
5	Optimal design of thermal insulation layer of a tunnel in permafrost regions based on coupled heat-water simulation. Applied Thermal Engineering, 2017, 110, 1264-1273.	3.0	80
6	Evaluating the cooling performance of crushed-rock interlayer embankments with unperforated and perforated ventilation ducts in permafrost regions. Energy, 2015, 93, 874-881.	4.5	74
7	Experimental and numerical simulations on heat-water-mechanics interaction mechanism in a freezing soil. Applied Thermal Engineering, 2018, 132, 209-220.	3.0	72
8	A new method to model the thermal conductivity of soil–rock media in cold regions: An example from permafrost regions tunnel. Cold Regions Science and Technology, 2013, 95, 11-18.	1.6	66
9	Moisture–temperature changes and freeze–thaw hazards on a canal in seasonally frozen regions. Natural Hazards, 2014, 72, 287-308.	1.6	64
10	The coupled moistureâ€heat process of permafrost around a thermokarst pond in Qinghaiâ€Tibet Plateau under global warming. Journal of Geophysical Research F: Earth Surface, 2014, 119, 836-853.	1.0	64
11	Evaluation of the ground heat control capacity of a novel air-L-shaped TPCT-ground (ALTG) cooling system in cold regions. Energy, 2019, 179, 655-668.	4.5	63
12	A full-scale field experiment to evaluate the cooling performance of a novel composite embankment in permafrost regions. International Journal of Heat and Mass Transfer, 2016, 95, 1047-1056.	2.5	60
13	Numerical evaluation of the cooling performance of a composite L-shaped two-phase closed thermosyphon (LTPCT) technique in permafrost regions. Solar Energy, 2019, 177, 22-31.	2.9	54
14	Numerical study of the thermal characteristics of a shallow tunnel section with a two-phase closed thermosyphon group in a permafrost region under climate warming. International Journal of Heat and Mass Transfer, 2017, 104, 952-963.	2.5	53
15	Geotemperature control performance of two-phase closed thermosyphons in the shady and sunny slopes of an embankment in a permafrost region. Applied Thermal Engineering, 2017, 112, 986-998.	3.0	52
16	Lateral thermal disturbance of embankments in the permafrost regions of the Qinghai-Tibet Engineering Corridor. Natural Hazards, 2015, 78, 2121-2142.	1.6	45
17	Analysis of volumetric unfrozen water contents in freezing soils. Experimental Heat Transfer, 2019, 32, 426-438.	2.3	43
18	Investigation on frost heave of saturated–unsaturated soils. Acta Geotechnica, 2020, 15, 3295-3306.	2.9	43

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19	Building Earthquake Damage Information Extraction from a Single Post-Earthquake PolSAR Image. Remote Sensing, $2016, 8, 171$.	1.8	42
20	Evaluation of calculation models for the unfrozen water content of freezing soils. Journal of Hydrology, 2019, 575, 976-985.	2.3	39
21	Centrifuge and numerical modeling of the frost heave mechanism of a cold-region canal. Acta Geotechnica, 2019, 14, 1113-1128.	2.9	35
22	Effect of hydro-thermal behavior on the frost heave of a saturated silty clay under different applied pressures. Applied Thermal Engineering, 2017, 117, 462-467.	3.0	33
23	Unified Soil Freezing Characteristic for Variablyâ€Saturated Saline Soils. Water Resources Research, 2020, 56, e2019WR026648.	1.7	33
24	Effect of Inclination Angle on the Heat Transfer Performance of a Two-Phase Closed Thermosyphon under Low-Temperature Conditions. Journal of Cold Regions Engineering - ASCE, 2014, 28, .	0.5	30
25	Fusion of polarimetric and texture information for urban building extraction from fully polarimetric SAR imagery. Remote Sensing Letters, 2016, 7, 31-40.	0.6	30
26	A generalized model for calculating the thermal conductivity of freezing soils based on soil components and frost heave. International Journal of Heat and Mass Transfer, 2020, 150, 119166.	2.5	30
27	Changes in permafrost extent and active layer thickness in the Northern Hemisphere from 1969 to 2018. Science of the Total Environment, 2022, 804, 150182.	3.9	30
28	Experimental study of the hydro-thermal characteristics and frost heave behavior of a saturated silt within a closed freezing system. Applied Thermal Engineering, 2018, 129, 1447-1454.	3.0	28
29	Effect of Temperature Gradients on the Frost Heave of a Saturated Silty Clay with a Water Supply. Journal of Cold Regions Engineering - ASCE, 2017, 31, .	0.5	27
30	Laboratory investigation of the heat transfer characteristics of a two-phase closed thermosyphon. Cold Regions Science and Technology, 2013, 95, 67-73.	1.6	26
31	Laboratory investigation of the efficiency optimization of an inclined two-phase closed thermosyphon in ambient cool energy utilization. Renewable Energy, 2019, 133, 1178-1187.	4.3	26
32	Multi-scale Experimental Investigations on the Deterioration Mechanism of Sandstone Under Wetting–Drying Cycles. Rock Mechanics and Rock Engineering, 2021, 54, 429-441.	2.6	25
33	Enhancement of convective cooling of the porous crushed-rock layer in cold regions based on experimental investigations. International Communications in Heat and Mass Transfer, 2017, 87, 14-21.	2.9	24
34	A black near-infrared reflective coating based on nano-technology. Energy and Buildings, 2019, 205, 109523.	3.1	24
35	Hydro-thermal behaviors of the ground under different surfaces in the Qinghai-Tibet Plateau. Cold Regions Science and Technology, 2019, 161, 99-106.	1.6	22
36	Study on the frost heave behavior of the freezing unsaturated silty clay. Cold Regions Science and Technology, 2022, 197, 103525.	1.6	20

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37	Water–heat migration and frost-heave behavior of a saturated silty clay with a water supply. Experimental Heat Transfer, 2017, 30, 517-529.	2.3	19
38	Thermo-mechanical stability analysis of cooling embankment with crushed-rock interlayer on a sloping ground in permafrost regions. Applied Thermal Engineering, 2017, 125, 1200-1208.	3.0	19
39	Building Damage Assessment Based on the Fusion of Multiple Texture Features Using a Single Post-Earthquake PolSAR Image. Remote Sensing, 2019, 11, 897.	1.8	18
40	Countermeasures combined with thermosyphons against the thermal instability of high-grade highways in permafrost regions. International Journal of Heat and Mass Transfer, 2020, 153, 119047.	2.5	18
41	Effect of length ratios on the cooling performance of an inclined two-phase closed thermosyphon under negative temperature conditions. Solar Energy, 2020, 204, 600-616.	2.9	18
42	Calculation theories and analysis methods of thermodynamic stability of embankment engineering in cold regions. Science Bulletin, 2014, 59, 261-272.	1.7	17
43	Thermal stability analysis of crushed-rock embankments on a slope in permafrost regions. Cold Regions Science and Technology, 2014, 106-107, 175-182.	1.6	17
44	Study of the time-dependent thermal behavior of the multilayer asphalt concrete pavement in permafrost regions. Construction and Building Materials, 2018, 193, 162-172.	3.2	17
45	Thermo-seismic characteristics of a crushed-rock interlayer embankment on a permafrost slope. Cold Regions Science and Technology, 2018, 151, 249-259.	1.6	15
46	Numerical investigation on the thermal control performance and freeze-thaw resistance of a composite concrete pier with microencapsulated phase change materials. Solar Energy, 2022, 231, 970-984.	2.9	15
47	Thermal control performance of the embankment with L-shaped thermosyphons and insulations along the Gonghe-Yushu Highway. Cold Regions Science and Technology, 2022, 194, 103428.	1.6	14
48	In-situ experimental and numerical investigation on the cooling effect of a multi-lane embankment with combined crushed-rock interlayer and ventilated ducts in permafrost regions. Cold Regions Science and Technology, 2014, 104-105, 97-105.	1.6	13
49	Study on the physical mechanical properties and freeze-thaw resistance of artificial phase change aggregates. Construction and Building Materials, 2022, 329, 127225.	3.2	13
50	Experimental study of optical and cooling performances of CuO and TiO2 near-infrared reflective blending coatings. Solar Energy, 2021, 225, 19-32.	2.9	12
51	Prediction of the unfrozen water content in soils based on premelting theory. Journal of Hydrology, 2022, 608, 127505.	2.3	10
52	Finite element analysis of heat and mass transfer in unsaturated freezing soils: Formulation and verification. Computers and Geotechnics, 2022, 149, 104848.	2.3	10
53	Laboratory study on the frost-proof performance of a novel embankment dam in seasonally frozen regions. Journal of Hydrology, 2021, 602, 126769.	2.3	9
54	A self-adaption horizontal thermosyphon technology in uneven thermal control of roadway embankments in sub-arctic permafrost regions. Transportation Geotechnics, 2022, 33, 100714.	2.0	9

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55	Study on the geometric parameters of elbow ventiduct embankment in permafrost regions along the Qinghai-Tibet Engineering Corridor. Cold Regions Science and Technology, 2021, 182, 103209.	1.6	8
56	Numerical optimization of the installing position for the L-shaped TPCT in a permafrost embankment based on the spatial heat control. Solar Energy, 2021, 224, 1406-1425.	2.9	8
57	Thermodynamic responses of a crushed-rock interlayer embankment on sloping permafrost ground under traffic loads. Applied Thermal Engineering, 2018, 144, 670-680.	3.0	7
58	Experimental study on the startup and heat transfer behaviors of a two-phase closed thermosyphon at subzero temperatures. International Journal of Heat and Mass Transfer, 2022, 190, 122283.	2.5	7
59	Two New Polarimetric Feature Parameters for the Recognition of the Different Kinds of Buildings in Earthquake-Stricken Areas Based on Entropy and Eigenvalues of PolSAR Decomposition. Remote Sensing, 2018, 10, 1613.	1.8	6
60	Thermo-seismic performances of a unilateral two-phase closed thermosyphon (TPCT) embankment in earthquake-prone permafrost regions. Transportation Geotechnics, 2021, 27, 100456.	2.0	5
61	A non-local frost heave model based on peridynamics theory. Computers and Geotechnics, 2022, 145, 104675.	2.3	5
62	A developed method to measure and calculate the solar albedo of discrete-particle layers. Solar Energy, 2019, 194, 671-681.	2.9	4
63	A hydraulic conductivity model of frozen soils with the consideration of water films. European Journal of Soil Science, 2022, 73, .	1.8	4