

Kunio Watanabe

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,360
citations

623188

14
h-index

794141

19
g-index

26
all docs

26
docs citations

26
times ranked

1106
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of unfrozen water content and relative permittivity of frozen unsaturated soil using NMR and TDR. <i>Cold Regions Science and Technology</i> , 2009, 59, 34-41.	1.6	261
2	The mathematical representation of freezing and thawing processes in variably-saturated, non-deformable soils. <i>Advances in Water Resources</i> , 2013, 60, 160-177.	1.7	253
3	Amount of unfrozen water in frozen porous media saturated with solution. <i>Cold Regions Science and Technology</i> , 2002, 34, 103-110.	1.6	239
4	Capillary bundle model of hydraulic conductivity for frozen soil. <i>Water Resources Research</i> , 2008, 44, .	1.7	124
5	Dependence of the water retention curve of snow on snow characteristics. <i>Annals of Glaciology</i> , 2012, 53, 6-12.	2.8	59
6	Comparison of Hydraulic Conductivity in Frozen Saturated and Unfrozen Unsaturated Soils. <i>Vadose Zone Journal</i> , 2016, 15, 1-7.	1.3	58
7	Effect of macropores on soil freezing and thawing with infiltration. <i>Hydrological Processes</i> , 2017, 31, 270-278.	1.1	56
8	Ice configuration near a growing ice lens in a freezing porous medium consisting of micro glass particles. <i>Journal of Crystal Growth</i> , 2000, 213, 135-140.	0.7	55
9	Simultaneous measurement of unfrozen water content and hydraulic conductivity of partially frozen soil near 0 °C. <i>Cold Regions Science and Technology</i> , 2017, 142, 79-84.	1.6	50
10	Water Infiltration into a Frozen Soil with Simultaneous Melting of the Frozen Layer. <i>Vadose Zone Journal</i> , 2013, 12, vzt2011.0188.	1.3	45
11	Freezing experiments on unsaturated sand, loam and silt loam. <i>Annals of Glaciology</i> , 2011, 52, 37-43.	2.8	42
12	Water and Solute Distributions near an Ice Lens in a Glass-Powder Medium Saturated with Sodium Chloride Solution under Unidirectional Freezing. <i>Crystal Growth and Design</i> , 2001, 1, 207-211.	1.4	38
13	Relationship between growth rate and supercooling in the formation of ice lenses in a glass powder. <i>Journal of Crystal Growth</i> , 2002, 237-239, 2194-2198.	0.7	29
14	Microâ€Chilledâ€Mirror Hygrometer for Measuring Water Potential in Relatively Dry and Partially Frozen Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 1938-1945.	1.2	15
15	Production of Porous Carbon from Ion Exchange Resin Waste. <i>Tanso</i> , 1999, 1999, 25-29.	0.1	13
16	In situ observation of the distribution and activity of microorganisms in frozen soil. <i>Cold Regions Science and Technology</i> , 2008, 54, 1-6.	1.6	10
17	Properties and horizons of active layer soils in tundra at Tiksi, Siberia.. <i>Suimon Mizu Shigen Gakkaishi</i> , 2000, 13, 9-16.	0.1	9
18	Role of sulphide reduction by magnesium hydroxide on the sediment of the eutrophic closed bay. <i>Aquaculture Research</i> , 2018, 49, 462-470.	0.9	2

#	ARTICLE	IF	CITATIONS
19	Back Analytical Technique for Evaluating the Hydraulic Properties of Unsaturated Rock.. Journal of the Japan Society of Engineering Geology, 1994, 35, 69-76.	0.1	2
20	Unsaturated Hydraulic Properties and Their Influence on The Moisture Content of Layered Soils. Journal of Groundwater Hydrology, 1997, 39, 115-126.	0.1	0
21	Observation of ice lensing in glass-powder medium. The relationship between ice lens Growth and water content.. Journal of the Japanese Society of Snow and Ice, 2001, 63, 3-9.	0.0	0
22	Analysis of groundwater flow in a fractured rock mass in Pahala Mattala area, Sri Lanka using Don-Chan, a three-dimensional channel network model. Journal of Groundwater Hydrology, 2004, 46, 277-297.	0.1	0
23	Investigation of water movement through snowcover based on cold laboratory experiments. Journal of Japanese Association of Hydrological Sciences, 2012, 42, 89-99.	0.2	0
24	A model of layered ice-formation in unconfined water-saturated spherical glass particles.. Journal of the Japanese Society of Snow and Ice, 1999, 61, 207-214.	0.0	0
25	Fundamental Study on Some Natures of Unsaturated Flow in Fractured Rock Covered with Surface Soil. Journal of the Japan Society of Engineering Geology, 1983, 24, 46-54.	0.1	0
26	Considering water flow in snow pack with soil physicsâ€”Water retention and flow in porous media determined by the pore structureâ€”. Journal of the Japanese Society of Snow and Ice, 2021, 83, 547-554.	0.0	0