Kouichi Nishimura

List of Publications by Year
in descending order

42 papers	777 citations	430442 18 h-index	525886 27 g-index
44 all docs	44 docs citations	44 times ranked	894 citing authors

#	Article	IF	Citations
1	Blowing snow at Mizuho station, Antarctica. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 1647-1662.	1.6	85
2	First direct observation of sea salt aerosol production from blowing snow above sea ice. Atmospheric Chemistry and Physics, 2020, 20, 2549-2578.	1.9	61
3	Measurements of snow mass flux and transport rate at different particle diameters in drifting snow. Cold Regions Science and Technology, 1998, 27, 83-89.	1.6	54
4	Avalanche forecasting in a heavy snowfall area using the snowpack model. Cold Regions Science and Technology, 2008, 51, 191-203.	1.6	42
5	Glacial lake inventory of Bhutan using ALOS data: methods and preliminary results. Annals of Glaciology, 2011, 52, 65-71.	2.8	42
6	Snow particle speeds in drifting snow. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9901-9913.	1.2	35
7	Anomalous winter-snow-amplified earthquake-induced disaster of the 2015 Langtang avalanche in Nepal. Natural Hazards and Earth System Sciences, 2017, 17, 749-764.	1.5	35
8	Sea salt aerosol production via sublimating wind-blown saline snow particles over sea ice: parameterizations and relevant microphysical mechanisms. Atmospheric Chemistry and Physics, 2019, 19, 8407-8424.	1.9	33
9	Earthquake-induced snow avalanches: I. Historical case studies. Journal of Glaciology, 2010, 56, 431-446.	1.1	29
10	How do Stability Corrections Perform in the Stable Boundary Layer Over Snow?. Boundary-Layer Meteorology, 2017, 165, 161-180.	1.2	27
11	SNOWPACK model simulations for snow in Hokkaido, Japan. Annals of Glaciology, 2004, 38, 123-129.	2.8	24
12	Development of a large-eddy simulation coupled with Lagrangian snow transport model. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 183, 35-43.	1.7	24
13	Application of the snow cover model SNOWPACK to snow avalanche warning in Niseko, Japan. Cold Regions Science and Technology, 2005, 43, 62-70.	1.6	23
14	Detection of snowfall occurrence during blowing snow events using photoelectric sensors. Cold Regions Science and Technology, 2014, 106-107, 11-21.	1.6	23
15	Snow ripples and their contribution to the mass transport in drifting snow. Boundary-Layer Meteorology, 1992, 59, 59-66.	1.2	20
16	Earthquake-induced snow avalanches: II. Experimental study. Journal of Glaciology, 2010, 56, 447-458.	1.1	19
17	Wind and drifting-snow gust factor in an Alpine context. Annals of Glaciology, 2011, 52, 223-230.	2.8	19
18	A meteorological and blowing snow data set (2000â€“2016) from a high-elevation alpine site (Col du Lac) Tj ETQq0 0 0 rgBT /Overlock 1	3.7	18

#	Article	IF	Citations
19	Seismic location and tracking of snow avalanches and slush flows on Mt.ÂFuji, Japan. Earth Surface Dynamics, 2019, 7, 989-1007.	1.0	17
20	Structures of Cold Air During the Development of a Broad Band Cloud and a Meso-β-scale Vortex : Simultaneous Two-Point Radiosonde Observations. Journal of the Meteorological Society of Japan, 1996, 74, 281-297.	0.7	16
21	Two phase simulations of glacier lake outburst flows. Journal of Computational Science, 2013, 4, 71-79.	1.5	16
22	Fluidization of snow. Cold Regions Science and Technology, 1979, 1, 109-120.	1.6	15
23	Measurements of the velocity distribution in ping-pong-ball avalanches. Annals of Glaciology, 1998, 26, 259-264.	2.8	13
24	Evidence of Strong Flux Underestimation by Bulk Parametrizations During Drifting and Blowing Snow. Boundary-Layer Meteorology, 2022, 182, 119-146.	1.2	12
25	Viscosity of fluidized snow. Cold Regions Science and Technology, 1996, 24, 117-127.	1.6	11
26	Study of unusual atmospheric icing at Mount Zao, Japan, using the Weather Research and Forecasting model. Journal of Geophysical Research, 2012, 117, .	3.3	11
27	Three-dimensional snow images by MR microscopy. Magnetic Resonance Imaging, 2003, 21, 351-354.	1.0	9
28	Three-dimensional MR microscopy of snowpack structures. Cold Regions Science and Technology, 2003, 37, 385-391.	1.6	8
29	Numerical study of the time development of drifting snow and its relation to the spatial development. Annals of Glaciology, 2004, 38, 343-350.	2.8	7
30	Measurement of snow particle size and velocity in avalanche powder clouds. Journal of Glaciology, 2017, 63, 249-257.	1.1	6
31	Spatiotemporal Structure of Aeolian Particle Transport on Flat Surface. Journal of the Physical Society of Japan, 2017, 86, 054402.	0.7	5
32	Perspectives on Snow Avalanche Dynamics Research. Geosciences (Switzerland), 2021, 11, 57.	1.0	3
33	Snow Entrainment Coefficient Estimated by Field Observations and Wind Tunnel Experiments. Journal of Cold Regions Engineering - ASCE, 2005, 19, 117-129.	0.5	2
34	Development of glacial lake inventory in Bhutan using “Daichi” (ALOS). , 2011, , .		2
35	Drag Forces and Ping-Pong Ball Avalanches.. Journal of the Japanese Society of Snow and Ice, 2003, 65, 117-125.	0.0	2
36	Hysteresis and Surface Shear Stresses During Snow-Particle Aeolian Transportation. Boundary-Layer Meteorology, 2022, 183, 447-467.	1.2	2

#	Article	IF	Citations
37	Application of an Inertia Dependent Flow Friction Model to Snow Avalanches: Exploration of the Model Using a Ping-Pong Ball Experiment. Geosciences (Switzerland), 2020, 10, 436.	1.0	1
38	A wind-tunnel experiment on the formation of snow ripples.. Journal of the Japanese Society of Snow and Ice, 1992, 54, 27-34.	0.0	1
39	A Simple Snow-Cover Model for Avalanche Warning in Japan. Scientific Online Letters on the Atmosphere, 2020, 16, 246-251.	0.6	1
40	Wavelet phase analysis of two velocity components to infer the structure of interscale transfers in a turbulent boundary-layer. Fluid Dynamics Research, 2016, 48, 021406.	0.6	0
41	Calculation of snowdrift distribution over complex topography to improve the accuracy of snow avalanche warning systems. Scientific Online Letters on the Atmosphere, 2022, , .	0.6	0
42	Relation between mean and instantaneous values of snow-drift flux under drifting snow. Journal of the Japanese Society of Snow and Ice, 2022, 84, 213-227.	0.0	0