

# Hannu Savijärvi

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

5,860  
citations

159585

30  
h-index

123424

61  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-wave optical properties of water clouds and rain. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 50, 1.	1.7	7
2	Model predictions of coastal winds in a small scale. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 56, 287.	1.7	6
3	The influence of synoptic scale flow on sea breeze induced surface winds and calm zones. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 62, 209.	1.7	29
4	Snow bands over the Gulf of Finland in wintertime. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 25102.	1.7	22
5	Short-wave optical properties of rain. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 49, 177.	1.7	5
6	Curiosity observations and column model integrations for a martian global dust event. <i>Icarus</i> , 2020, 337, 113515.	2.5	14
7	A user-orientated column modelling framework for efficient analyses of the Martian atmosphere. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2019, 8, 251-263.	1.6	0
8	Annual and diurnal water vapor cycles at Curiosity from observations and column modeling. <i>Icarus</i> , 2019, 319, 485-490.	2.5	20
9	Water vapor mixing ratios and air temperatures for three martian years from Curiosity. <i>Icarus</i> , 2019, 326, 170-175.	2.5	15
10	New column simulations for the Viking landers: Winds, fog, frost, adsorption?. <i>Icarus</i> , 2018, 310, 48-53.	2.5	9
11	The Martian Planetary Boundary Layer. , 2017, , 172-202.		14
12	The MetNet vehicle: a lander to deploy environmental stations for local and global investigations of Mars. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2017, 6, 103-124.	1.6	6
13	The diurnal water cycle at Curiosity: Role of exchange with the regolith. <i>Icarus</i> , 2016, 265, 63-69.	2.5	34
14	Cold air outbreaks along a non-frozen sea channel: effects of wind on snow bands. <i>Meteorology and Atmospheric Physics</i> , 2015, 127, 383-391.	2.0	7
15	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
16	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
17	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
18	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	12.6	475

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19	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	12.6	224
20	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
21	High-resolution simulations of the nighttime stable boundary layer over snow. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1121-1128.	2.7	8
22	A toy climate model for Mars. <i>Icarus</i> , 2014, 242, 105-111.	2.5	4
23	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
24	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	12.6	280
25	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327
26	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
27	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
28	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	12.6	134
29	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
30	Mesoscale Modelling of the Arctic Atmospheric Boundary Layer and Its Interaction with Sea Ice. <i>Atmospheric and Oceanographic Sciences Library</i> , 2012, , 279-324.	0.1	9
31	The convective boundary layer on Mars: Some 1-D simulation results. <i>Icarus</i> , 2012, 221, 617-623.	2.5	12
32	Mechanisms of the diurnal cycle in the atmospheric boundary layer of Mars. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 552-560.	2.7	17
33	Interaction of katabatic winds and near-surface temperatures in the Antarctic. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	32
34	Antarctic local wind dynamics and polynya effects on the Adlie Land coast. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1804-1811.	2.7	6
35	Boundary layer simulations for the Mars Phoenix lander site. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1497-1505.	2.7	46
36	Stable boundary layer: Parametrizations for local and larger scales. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 914-921.	2.7	28

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37	Fog phenomena on Mars. Planetary and Space Science, 2009, 57, 1987-1992.	1.7	29
38	Surface and boundary layer modelling for the Mars Exploration Rover sites. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 635-641.	2.7	31
39	The Mars limited area model and simulations of atmospheric circulations for the Phoenix landing area and season of operation. Journal of Geophysical Research, 2008, 113, .	3.3	17
40	On the numerical asymmetry in calculating Coriolis terms through the splitting method in a mesoscale model. International Journal of Environment and Pollution, 2008, 32, 139.	0.2	2
41	Vertical atmospheric flow on Titan as measured by the HASI instrument on board the Huygens probe. Geophysical Research Letters, 2006, 33, .	4.0	13
42	Radiative and turbulent heating rates in the clear-air boundary layer. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 147-161.	2.7	40
43	Coastal winds and low-level jets: Simulations for sea gulfs. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 625-637.	2.7	28
44	Effects of CO <sub>2</sub> and dust on present-day solar radiation and climate on Mars. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 2907-2922.	2.7	42
45	Observations and Modelling of Cold-air Advection over Arctic Sea Ice™. Boundary-Layer Meteorology, 2005, 117, 275-300.	2.3	32
46	Model predictions of coastal winds in a small scale. Tellus, Series A: Dynamic Meteorology and Oceanography, 2004, 56, 287-295.	1.7	7
47	Mars Pathfinder: New data and new model simulations. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 669-683.	2.7	40
48	Flow over Small Heat Islands: A Numerical Sensitivity Study. Journals of the Atmospheric Sciences, 2004, 61, 859-868.	1.7	29
49	On the parameterization of precipitation in warm clouds. Atmospheric Research, 2002, 63, 163-176.	4.1	3
50	Comparison of surface radiative flux parameterizations. Atmospheric Research, 2001, 58, 1-18.	4.1	173
51	Comparison of surface radiative flux parameterizations. Atmospheric Research, 2001, 58, 141-154.	4.1	64
52	Local Winds In A Valley City. Boundary-Layer Meteorology, 2001, 100, 301-319.	2.3	35
53	A model study of the atmospheric boundary layer in the Mars pathfinder lander conditions. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 483-493.	2.7	65
54	Long-wave optical properties of water clouds and rain. Tellus, Series A: Dynamic Meteorology and Oceanography, 1998, 50, 1-11.	1.7	17

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55	Short-wave optical properties of precipitating water clouds. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 883-899.	2.7	44
56	Diurnal winds around lake Tanganyika. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 901-918.	2.7	36
57	Short-wave optical properties of rain. Tellus, Series A: Dynamic Meteorology and Oceanography, 1997, 49, 177-181.	1.7	3
58	The Martian Slope Winds and the Nocturnal PBL Jet. Journals of the Atmospheric Sciences, 1993, 50, 77-88.	1.7	74
59	The United States Great Plains Diurnal ABL Variation and the Nocturnal Low-Level Jet. Monthly Weather Review, 1991, 119, 833-840.	1.4	31
60	On the effective roughness length for heterogeneous terrain. Quarterly Journal of the Royal Meteorological Society, 1991, 117, 399-407.	2.7	35
61	Fast Radiation Parameterization Schemes for Mesoscale and Short-Range Forecast Models. Journal of Applied Meteorology and Climatology, 1990, 29, 437-447.	1.7	145
62	Mesoscale circulations in a hydrostatic model: coastal convergence and orographic lifting. Tellus, Series A: Dynamic Meteorology and Oceanography, 1985, 37A, 156-162.	1.7	25
63	The Effect of Atmospheric and Oceanic Energy Transports in Climatic Balance. , 1984, , 563-570.		0
64	The mass balance in diagnostic studies: an example of analysed and forecast data calculations. Tellus, 1982, 34, 540-544.	0.8	5
65	The HIRLAM fast radiation scheme for mesoscale numerical weather prediction models. Advances in Science and Research, 0, 14, 195-215.	1.0	5