

Hannu Savij rvi

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	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	12.6	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	12.6	508
3	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. Science, 2014, 343, 1244797.	12.6	475
4	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367
5	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	12.6	327
6	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	12.6	327
7	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	12.6	326
8	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	12.6	323
9	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	12.6	280
10	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
11	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	12.6	224
12	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	12.6	215
13	Comparison of surface radiative flux parameterizations. Atmospheric Research, 2001, 58, 1-18.	4.1	173
14	Fast Radiation Parameterization Schemes for Mesoscale and Short-Range Forecast Models. Journal of Applied Meteorology and Climatology, 1990, 29, 437-447.	1.7	145
15	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	12.6	134
16	The Martian Slope Winds and the Nocturnal PBL Jet. Journals of the Atmospheric Sciences, 1993, 50, 77-88.	1.7	74
17	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
18	Comparison of surface radiative flux parameterizations. Atmospheric Research, 2001, 58, 141-154.	4.1	64

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19	Boundary-layer simulations for the Mars Phoenix lander site. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1497-1505.	2.7	46
20	Short-wave optical properties of precipitating water clouds. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 883-899.	2.7	44
21	Effects of CO ₂ 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
22	Mars Pathfinder: New data and new model simulations. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 669-683.	2.7	40
23	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
24	Diurnal winds around lake Tanganyika. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 901-918.	2.7	36
25	On the effective roughness length for heterogeneous terrain. Quarterly Journal of the Royal Meteorological Society, 1991, 117, 399-407.	2.7	35
26	Local Winds In A Valley City. Boundary-Layer Meteorology, 2001, 100, 301-319.	2.3	35
27	The diurnal water cycle at Curiosity: Role of exchange with the regolith. Icarus, 2016, 265, 63-69.	2.5	34
28	Observations and Modelling of Cold-air Advection over Arctic Sea Ice™. Boundary-Layer Meteorology, 2005, 117, 275-300.	2.3	32
29	Interaction of katabatic winds and near-surface temperatures in the Antarctic. Journal of Geophysical Research, 2011, 116, .	3.3	32
30	The United States Great Plains Diurnal ABL Variation and the Nocturnal Low-Level Jet. Monthly Weather Review, 1991, 119, 833-840.	1.4	31
31	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
32	Flow over Small Heat Islands: A Numerical Sensitivity Study. Journals of the Atmospheric Sciences, 2004, 61, 859-868.	1.7	29
33	Fog phenomena on Mars. Planetary and Space Science, 2009, 57, 1987-1992.	1.7	29
34	The influence of synoptic scale flow on sea breeze induced surface winds and calm zones. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 209.	1.7	29
35	Coastal winds and low-level jets: Simulations for sea gulfs. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 625-637.	2.7	28
36	Stable boundary layer: Parametrizations for local and larger scales. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 914-921.	2.7	28

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37	Mesoscale circulations in a hydrostatic model: coastal convergence and orographic lifting. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1985, 37A, 156-162.	1.7	25
38	Snow bands over the Gulf of Finland in wintertime. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 25102.	1.7	22
39	Annual and diurnal water vapor cycles at Curiosity from observations and column modeling. <i>Icarus</i> , 2019, 319, 485-490.	2.5	20
40	Long-wave optical properties of water clouds and rain. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1998, 50, 1-11.	1.7	17
41	The Mars limited area model and simulations of atmospheric circulations for the Phoenix landing area and season of operation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
42	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
43	Water vapor mixing ratios and air temperatures for three martian years from Curiosity. <i>Icarus</i> , 2019, 326, 170-175.	2.5	15
44	The Martian Planetary Boundary Layer. , 2017, , 172-202.		14
45	Curiosity observations and column model integrations for a martian global dust event. <i>Icarus</i> , 2020, 337, 113515.	2.5	14
46	Vertical atmospheric flow on Titan as measured by the HASI instrument on board the Huygens probe. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	13
47	The convective boundary layer on Mars: Some 1-D simulation results. <i>Icarus</i> , 2012, 221, 617-623.	2.5	12
48	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
49	New column simulations for the Viking landers: Winds, fog, frost, adsorption?. <i>Icarus</i> , 2018, 310, 48-53.	2.5	9
50	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
51	Long-wave optical properties of water clouds and rain. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 50, 1.	1.7	7
52	Model predictions of coastal winds in a small scale. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 287-295.	1.7	7
53	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
54	Model predictions of coastal winds in a small scale. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 56, 287.	1.7	6

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55	Antarctic local wind dynamics and polynya effects on the AdÄ©lie Land coast. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1804-1811.	2.7	6
56	The MetNet vehicle: a lander to deploy environmental stations for local and global investigations of Mars. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 103-124.	1.6	6
57	The mass balance in diagnostic studies: an example of analysed and forecast data calculations. Tellus, 1982, 34, 540-544.	0.8	5
58	Short-wave optical properties of rain. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 49, 177.	1.7	5
59	The HIRLAM fast radiation scheme for mesoscale numerical weather prediction models. Advances in Science and Research, 0, 14, 195-215.	1.0	5
60	A toy climate model for Mars. Icarus, 2014, 242, 105-111.	2.5	4
61	Short-wave optical properties of rain. Tellus, Series A: Dynamic Meteorology and Oceanography, 1997, 49, 177-181.	1.7	3
62	On the parameterization of precipitation in warm clouds. Atmospheric Research, 2002, 63, 163-176.	4.1	3
63	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
64	A user-orientated column modelling framework for efficient analyses of the Martian atmosphere. Geoscientific Instrumentation, Methods and Data Systems, 2019, 8, 251-263.	1.6	0
65	The Effect of Atmospheric and Oceanic Energy Transports in Climatic Balance. , 1984, , 563-570.		0