

Henrik Kahanpää

List of Publications by Year in descending order

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34
papers

2,943
citations

279798

23
h-index

434195

31
g-index

35
all docs

35
docs citations

35
times ranked

2858
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling martian dust devils using in-situ wind, pressure, and UV radiation measurements by Mars Science Laboratory. Icarus, 2021, 359, 114207.	2.5	9
2	Gravity Wave Observations by the Mars Science Laboratory REMS Pressure Sensor and Comparison With Mesoscale Atmospheric Modeling With MarsWRF. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006907.	3.6	11
3	The quality of the Mars Phoenix pressure data. Planetary and Space Science, 2020, 181, 104814.	1.7	3
4	MarsWRF Convective Vortex and Dust Devil Predictions for Gale Crater Over 3 Mars Years and Comparison With MSLâ€REMS Observations. Journal of Geophysical Research E: Planets, 2019, 124, 3442-3468.	3.6	41
5	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. Geophysical Research Letters, 2019, 46, 71-79.	4.0	138
6	Detection of Northern Hemisphere transient eddies at Gale Crater Mars. Icarus, 2018, 307, 150-160.	2.5	27
7	The DREAMS Experiment Onboard the Schiaparelli Module of the ExoMars 2016 Mission: Design, Performances and Expected Results. Space Science Reviews, 2018, 214, 1.	8.1	19
8	Background levels of methane in Marsâ€™ atmosphere show strong seasonal variations. Science, 2018, 360, 1093-1096.	12.6	224
9	Analysis of wind-induced dynamic pressure fluctuations during one and a half Martian years at Gale Crater. Icarus, 2017, 288, 78-87.	2.5	15
10	History and Applications of Dust Devil Studies. Space Sciences Series of ISSI, 2017, , 5-37.	0.0	1
11	Field Measurements of Terrestrial and Martian Dust Devils. Space Sciences Series of ISSI, 2017, , 39-87.	0.0	1
12	Dust Devil Sediment Transport: From Lab to Field to Global Impact. Space Sciences Series of ISSI, 2017, , 377-426.	0.0	1
13	Electron/positron measurements obtained with the Mars Science Laboratory Radiation Assessment Detector on the surface of Mars. Annales Geophysicae, 2016, 34, 133-141.	1.6	4
14	Convective vortices and dust devils at the MSL landing site: Annual variability. Journal of Geophysical Research E: Planets, 2016, 121, 1514-1549.	3.6	55
15	History and Applications of Dust Devil Studies. Space Science Reviews, 2016, 203, 5-37.	8.1	43
16	Dust Devil Sediment Transport: From Lab to Field to Global Impact. Space Science Reviews, 2016, 203, 377-426.	8.1	35
17	Field Measurements of Terrestrial and Martian Dust Devils. Space Science Reviews, 2016, 203, 39-87.	8.1	39
18	Atmospheric tides in Gale Crater, Mars. Icarus, 2016, 268, 37-49.	2.5	45

#	ARTICLE	IF	CITATIONS
19	MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRST<i>MSL</i> MARTIAN YEAR: 2012–2014. <i>Astrophysical Journal</i> , 2015, 810, 24.	4.5	43
20	Observational evidence of a suppressed planetary boundary layer in northern Gale Crater, Mars as seen by the Navcam instrument onboard the Mars Science Laboratory rover. <i>Icarus</i> , 2015, 249, 129-142.	2.5	66
21	Diurnal variations of energetic particle radiation at the surface of Mars as observed by the Mars Science Laboratory Radiation Assessment Detector. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1345-1358.	3.6	44
22	Curiosity's rover environmental monitoring station: Overview of the first 100 sols. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1680-1688.	3.6	112
23	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244-1247.	12.6	475
24	Preliminary interpretation of the REMS pressure data from the first 100 sols of the MSL mission. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 440-453.	3.6	80
25	Pressure observations by the Curiosity rover: Initial results. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 82-92.	3.6	84
26	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327
27	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. <i>Science</i> , 2013, 341, 260-263.	12.6	241
28	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238-1240.	12.6	215
29	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	12.6	103
30	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. <i>Space Science Reviews</i> , 2012, 170, 583-640.	8.1	247
31	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. , 2012, , 583-640.		11
32	Convective vortices and dust devils at the Phoenix Mars mission landing site. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	118
33	On pressure measurement and seasonal pressure variations during the Phoenix mission. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
34	Vertical pressure profile of Titan's observations of the PPI/HASI instrument. <i>Planetary and Space Science</i> , 2006, 54, 1117-1123.	1.7	21