Henrik KahanpÃ¤Ã¤

List of Publications by Year
in descending order

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34	2,943	279701	434063
papers	citations	23 h-index	31 g-index

35	35	35	2858
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
2	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
3	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. Space Science Reviews, 2012, 170, 583-640.	3.7	247
4	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263.	6.0	241
5	Background levels of methane in Marsâ€™ atmosphere show strong seasonal variations. Science, 2018, 360, 1093-1096.	6.0	224
6	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
7	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. Geophysical Research Letters, 2019, 46, 71-79.	1.5	138
8	Convective vortices and dust devils at the Phoenix Mars mission landing site. Journal of Geophysical Research, 2010, 115, .	3.3	118
9	Curiosity's rover environmental monitoring station: Overview of the first 100 sols. Journal of Geophysical Research E: Planets, 2014, 119, 1680-1688.	1.5	112
10	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103
11	Pressure observations by the Curiosity rover: Initial results. Journal of Geophysical Research E: Planets, 2014, 119, 82-92.	1.5	84
12	Preliminary interpretation of the REMS pressure data from the first 100 sols of the MSL mission. Journal of Geophysical Research E: Planets, 2014, 119, 440-453.	1.5	80
13	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. Icarus, 2015, 249, 129-142.	1.1	66
14	Convective vortices and dust devils at the MSL landing site: Annual variability. Journal of Geophysical Research E: Planets, 2016, 121, 1514-1549.	1.5	55
15	Atmospheric tides in Gale Crater, Mars. Icarus, 2016, 268, 37-49.	1.1	45
16	On pressure measurement and seasonal pressure variations during the Phoenix mission. Journal of Geophysical Research, 2010, 115, .	3.3	44
17	Diurnal variations of energetic particle radiation at the surface of Mars as observed by the Mars Science Laboratory Radiation Assessment Detector. Journal of Geophysical Research E: Planets, 2014, 119, 1345-1358.	1.5	44
18	MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRSTMSLMARTIAN YEAR: 2012â€“2014. Astrophysical Journal, 2015, 810, 24.	1.6	43

#	Article	IF	Citations
19	History and Applications of Dust Devil Studies. Space Science Reviews, 2016, 203, 5-37.	3.7	43
20	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.	1.5	41
21	Field Measurements of Terrestrial and Martian Dust Devils. Space Science Reviews, 2016, 203, 39-87.	3.7	39
22	Dust Devil Sediment Transport: From Lab to Field to Global Impact. Space Science Reviews, 2016, 203, 377-426.	3.7	35
23	Detection of Northern Hemisphere transient eddies at Gale Crater Mars. Icarus, 2018, 307, 150-160.	1.1	27
24	Vertical pressure profile of Titanâ€"observations of the PPI/HASI instrument. Planetary and Space Science, 2006, 54, 1117-1123.	0.9	21
25	The DREAMS Experiment Onboard the Schiaparelli Module of the ExoMars 2016 Mission: Design, Performances and Expected Results. Space Science Reviews, 2018, 214, 1.	3.7	19
26	Analysis of wind-induced dynamic pressure fluctuations during one and a half Martian years at Gale Crater. Icarus, 2017, 288, 78-87.	1.1	15
27	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.	1.5	11
28	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. , 2012, , 583-640.		11
29	Modelling martian dust devils using in-situ wind, pressure, and UV radiation measurements by Mars Science Laboratory. Icarus, 2021, 359, 114207.	1.1	9
30	Electron/positron measurements obtained with the Mars Science Laboratory Radiation Assessment Detector on the surface of Mars. Annales Geophysicae, 2016, 34, 133-141.	0.6	4
31	The quality of the Mars Phoenix pressure data. Planetary and Space Science, 2020, 181, 104814.	0.9	3
32	History and Applications of Dust Devil Studies. Space Sciences Series of ISSI, 2017, , 5-37.	0.0	1
33	Field Measurements of Terrestrial and Martian Dust Devils. Space Sciences Series of ISSI, 2017, , 39-87.	0.0	1
34	Dust Devil Sediment Transport: From Lab to Field to Global Impact. Space Sciences Series of ISSI, 2017, , 377-426.	0.0	1