Luca Montabone

List of Publications by Year in descending order

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45 1,656 22 40 papers citations h-index g-index

50 50 50 1071 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Martian Dust. , 2022, , 637-666.		6
2	The Origins of Longâ€Term Variability in Martian Upper Atmospheric Densities. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	6
3	Improved Modeling of Mars' HDO Cycle Using a Mars' Global Climate Model. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	5
4	Retrieval of the water ice column and physical properties of water-ice clouds in the martian atmosphere using the OMEGA imaging spectrometer. Icarus, 2021, 353, 113229.	2.5	8
5	Seasonal reappearance of HCl in the atmosphere of Mars during the Mars year 35 dusty season. Astronomy and Astrophysics, 2021, 647, A161.	5.1	17
6	High Science Value Return of Small Spacecraft at Mars. , 2021, 53, .		0
7	Solar-System-Wide Significance of Mars Polar Science. , 2021, 53, .		2
8	Measuring Mars Atmospheric Winds from Orbit. , 2021, 53, .		3
9	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. Planetary Science Journal, 2021, 2, 211.	3.6	6
10	Assimilation of Both Column―and Layerâ€Integrated Dust Opacity Observations in the Martian Atmosphere. Earth and Space Science, 2021, 8, .	2.6	4
11	Mars Dust Storm Effects in the Ionosphere and Magnetosphere and Implications for Atmospheric Carbon Loss. Journal of Geophysical Research: Space Physics, 2020, 125, no.	2.4	23
12	Variations in the Ionospheric Peak Altitude at Mars in Response to Dust Storms: 13 Years of Observations From the Mars Express Radar Sounder. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006092.	3.6	19
13	Diurnal Variations of Dust During the 2018 Global Dust Storm Observed by the Mars Climate Sounder. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006115.	3.6	52
14	Impact of Gravity Waves on the Middle Atmosphere of Mars: A Nonâ€Orographic Gravity Wave Parameterization Based on Global Climate Modeling and MCS Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2018JE005873.	3.6	23
15	Martian Year 34 Column Dust Climatology from Mars Climate Sounder Observations: Reconstructed Maps and Model Simulations. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006111.	3.6	137
16	Investigating the semiannual oscillation on Mars using data assimilation. Icarus, 2019, 333, 404-414.	2.5	7
17	Study of gravity waves distribution and propagation in the thermosphere of Mars based on MGS, ODY, MRO and MAVEN density measurements. Planetary and Space Science, 2019, 178, 104708.	1.7	25
18	On the role of spatially inhomogeneous diabatic effects upon the evolution of Mars' annular polar vortex. Icarus, 2018, 314, 376-388.	2.5	14

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19	Global energy budgets and †Trenberth diagrams†for the climates of terrestrial and gas giant planets. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 703-720.	2.7	28
20	Martian polar vortices: Comparison of reanalyses. Journal of Geophysical Research E: Planets, 2016, 121, 1770-1785.	3.6	35
21	The solsticial pause on Mars: 1. A planetary wave reanalysis. Icarus, 2016, 264, 456-464.	2.5	74
22	ON THE RETRIEVAL OF MESOSPHERIC WINDS ON MARS AND VENUS FROM GROUND-BASED OBSERVATIONS AT 10 \hat{l}^4 m. Astrophysical Journal, 2016, 816, 103.	4.5	4
23	Non-axisymmetric flows in a differential-disk rotating system. Journal of Fluid Mechanics, 2015, 775, 349-386.	3.4	7
24	A Lorenz/Boer energy budget for the atmosphere of Mars from a "reanalysis―of spacecraft observations. Geophysical Research Letters, 2015, 42, 8320-8327.	4.0	13
25	Variability of the Martian thermosphere during eight Martian years as simulated by a ground-to-exosphere global circulation model. Journal of Geophysical Research E: Planets, 2015, 120, 2020-2035.	3.6	67
26	Polar vortices on Earth and Mars: A comparative study of the climatology and variability from reanalyses. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 550-562.	2.7	45
27	Effect of enclosure height on the structure and stability of shear layers induced by differential rotation. Journal of Fluid Mechanics, 2015, 765, 45-81.	3.4	6
28	Eight-year climatology of dust optical depth on Mars. Icarus, 2015, 251, 65-95.	2.5	316
29	The Mars Analysis Correction Data Assimilation (<scp>MACDA</scp>) Dataset V1.0. Geoscience Data Journal, 2014, 1, 129-139.	4.4	61
30	Linear stability analysis of a shear layer induced by differential coaxial rotation within a cylindrical enclosure. Journal of Fluid Mechanics, 2014, 738, 299-334.	3.4	7
31	The Venus nighttime atmosphere as observed by the VIRTISâ€M instrument. Average fields from the complete infrared data set. Journal of Geophysical Research E: Planets, 2014, 119, 837-849.	3.6	32
32	Climatology and first-order composition estimates of mesospheric clouds from Mars Climate Sounder limb spectra. Icarus, 2013, 222, 342-356.	2.5	39
33	Assimilating and Modeling Dust Transport in the Martian Climate System. Proceedings of the International Astronomical Union, 2012, 8, 326-328.	0.0	0
34	Investigation of air temperature on the nightside of Venus derived from VIRTIS-H on board Venus-Express. Icarus, 2012, 217, 640-647.	2.5	59
35	Revisiting the radiative impact of dust on Mars using the LMD Global Climate Model. Journal of Geophysical Research, $2011,116,.$	3.3	145
36	The impact of martian mesoscale winds on surface temperature and on the determination of thermal inertia. Icarus, 2011, 212, 504-519.	2.5	44

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37	Assessing atmospheric predictability on Mars using numerical weather prediction and data assimilation. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1614-1635.	2.7	24
38	Thermal structure of Venusian nighttime mesosphere as observed by VIRTISâ€Venus Express. Journal of Geophysical Research, 2010, 115, .	3.3	41
39	Transient teleconnection event at the onset of a planet-encircling dust storm on Mars. Annales Geophysicae, 2009, 27, 3663-3676.	1.6	20
40	Low-order dynamical behavior in the martian atmosphere: Diagnosis of general circulation model results. Icarus, 2009, 204, 48-62.	2.5	2
41	PFS/MEX observations of the condensing CO2 south polar cap of Mars. Icarus, 2008, 197, 386-402.	2.5	20
42	Influence of water ice clouds on Martian tropical atmospheric temperatures. Geophysical Research Letters, 2008, 35, .	4.0	84
43	Reconstructing the weather on Mars at the time of the MERs and Beagle 2 landings. Geophysical Research Letters, 2006, 33, .	4.0	11
44	Validation of martian meteorological data assimilation for MGS/TES using radio occultation measurements. Icarus, 2006, 185, 113-132.	2.5	64
45	Interannual variability of Martian dust storms in assimilation of several years of Mars global surveyor observations. Advances in Space Research, 2005, 36, 2146-2155.	2.6	51