

Marco Giuranna

List of Publications by Year in descending order

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57
papers

2,515
citations

218677

26
h-index

189892

50
g-index

62
all docs

62
docs citations

62
times ranked

1881
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Vapor on Mars: A Refined Climatology and Constraints on the Near-Surface Concentration Enabled by Synergistic Retrievals. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	5
2	Daily dust variation from the PFS MEx observations. <i>Icarus</i> , 2021, 353, 113823.	2.5	8
3	The current weather and climate of Mars: 12 years of atmospheric monitoring by the Planetary Fourier Spectrometer on Mars Express. <i>Icarus</i> , 2021, 353, 113406.	2.5	34
4	Seasonal and Spatial Variability of Carbon Monoxide (CO) in the Martian Atmosphere From PFS/MEX Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006480.	3.6	6
5	Exploiting night-time averaged spectra from PFS/MEX shortwave channel. Part 1: Temperature retrieval from the CO ₂ 17/23 band. <i>Planetary and Space Science</i> , 2021, 198, 105186.	1.7	0
6	Exploiting night-time averaged spectra from PFS/MEX shortwave channel. Part 2: Near-surface CO retrievals. <i>Planetary and Space Science</i> , 2021, 199, 105188.	1.7	0
7	A Global and Seasonal Perspective of Martian Water Vapor From ExoMars/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	8
8	Explanation for the Increase in High-Altitude Water on Mars Observed by NOMAD During the 2018 Global Dust Storm. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084354.	4.0	62
9	Similarities and Differences of Global Dust Storms in MY 25, 28, and 34. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006104.	3.6	20
10	Retrieval and characterization of carbon monoxide (CO) vertical profiles in the Martian atmosphere from observations of PFS/MEX. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 238, 106498.	2.3	6
11	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. <i>Nature</i> , 2019, 568, 517-520.	27.8	111
12	Martian dust storm impact on atmospheric H ₂ O and D/H observed by ExoMars Trace Gas Orbiter. <i>Nature</i> , 2019, 568, 521-525.	27.8	107
13	Independent confirmation of a methane spike on Mars and a source region east of Gale Crater. <i>Nature Geoscience</i> , 2019, 12, 326-332.	12.9	63
14	Ground-based infrared mapping of H ₂ O ₂ on Mars near opposition. <i>Astronomy and Astrophysics</i> , 2019, 627, A60.	5.1	8
15	Characterization of dust activity on Mars from MY27 to MY32 by PFS-MEX observations. <i>Icarus</i> , 2018, 310, 32-47.	2.5	28
16	Mesospheric CO ₂ ice clouds on Mars observed by Planetary Fourier Spectrometer onboard Mars Express. <i>Icarus</i> , 2018, 302, 175-190.	2.5	34
17	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	95
18	Stringent upper limit of CH ₄ on Mars based on SOFIA/EXES observations. <i>Astronomy and Astrophysics</i> , 2018, 610, A78.	5.1	10

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19	PFS/MEX limb observations of 4.3- μm CO ₂ non-LTE emission in the atmosphere of Mars. <i>Icarus</i> , 2018, 315, 46-60.	2.5	2
20	Optical and radiometric models of the NOMAD instrument part II: the infrared channels - SO and LNO. <i>Optics Express</i> , 2016, 24, 3790.	3.4	25
21	Expected performances of the NOMAD/ExoMars instrument. <i>Planetary and Space Science</i> , 2016, 124, 94-104.	1.7	31
22	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. <i>Optics Express</i> , 2015, 23, 30028.	3.4	26
23	Seasonal variation of the HDO/H ₂ O ratio in the atmosphere of Mars at the middle of northern spring and beginning of northern summer. <i>Icarus</i> , 2015, 260, 7-22.	2.5	47
24	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
25	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. <i>Planetary and Space Science</i> , 2015, 119, 233-249.	1.7	77
26	Search for hydrogen peroxide in the Martian atmosphere by the Planetary Fourier Spectrometer onboard Mars Express. <i>Icarus</i> , 2015, 245, 177-183.	2.5	7
27	Preparing EChO space mission: laboratory simulation of planetary atmospheres. , 2014, , .		0
28	Toward a numerical deshaker for PFS. <i>Planetary and Space Science</i> , 2014, 91, 45-51.	1.7	1
29	Mars Express investigations of Phobos and Deimos. <i>Planetary and Space Science</i> , 2014, 102, 18-34.	1.7	54
30	Analytical model and spectral correction of vibration effects on Fourier transform spectrometer. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
31	AOST: Fourier spectrometer for studying mars and phobos. <i>Solar System Research</i> , 2012, 46, 31-40.	0.7	11
32	Tidal variations in the Martian lower atmosphere inferred from Mars Express Planetary Fourier Spectrometer temperature data. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	3
33	Compositional interpretation of PFS/MEx and TES/MGS thermal infrared spectra of Phobos. <i>Planetary and Space Science</i> , 2011, 59, 1308-1325.	1.7	43
34	Interferometric millimeter observations of water vapor on Mars and comparison with Mars Express measurements. <i>Planetary and Space Science</i> , 2011, 59, 683-690.	1.7	7
35	A study of the properties of a local dust storm with Mars Express OMEGA and PFS data. <i>Icarus</i> , 2009, 201, 504-516.	2.5	42
36	Observations of CO in the atmosphere of Mars with PFS onboard Mars Express. <i>Planetary and Space Science</i> , 2009, 57, 1446-1457.	1.7	45

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37	Investigation of water vapor on Mars with PFS/SW of Mars Express. <i>Icarus</i> , 2008, 195, 557-575.	2.5	48
38	PFS/MEX observations of the condensing CO ₂ south polar cap of Mars. <i>Icarus</i> , 2008, 197, 386-402.	2.5	20
39	Methane in Martian atmosphere: Average spatial, diurnal, and seasonal behaviour. <i>Planetary and Space Science</i> , 2008, 56, 1194-1203.	1.7	99
40	Martian water vapor: Mars Express PFS/LW observations. <i>Icarus</i> , 2007, 190, 32-49.	2.5	101
41	Tracking the edge of the south seasonal polar cap of Mars. <i>Planetary and Space Science</i> , 2007, 55, 1319-1327.	1.7	10
42	Spatial variability, composition and thickness of the seasonal north polar cap of Mars in mid-spring. <i>Planetary and Space Science</i> , 2007, 55, 1328-1345.	1.7	13
43	Albedo and photometric study of Mars with the Planetary Fourier Spectrometer on-board the Mars Express mission. <i>Icarus</i> , 2007, 186, 527-546.	2.5	22
44	Results of measurements with the Planetary Fourier Spectrometer onboard Mars Express: Clouds and dust at the end of southern summer. A comparison with OMEGA images. <i>Cosmic Research</i> , 2006, 44, 305-316.	0.6	10
45	Observations of non-LTE emission at 4-5 microns with the planetary Fourier spectrometer aboard the Mars Express mission. <i>Icarus</i> , 2006, 182, 51-67.	2.5	33
46	Comparison of surface temperatures measured by the Planetary Fourier Spectrometer (PFS) on Mars Express with predictions from the Berlin Mars near Surface Thermal model (BMST) for the BEAGLE 2 landing site in Isidis Planitia. <i>Advances in Space Research</i> , 2006, 38, 709-712.	2.6	4
47	The planetary fourier spectrometer (PFS) onboard the European Venus Express mission. <i>Planetary and Space Science</i> , 2006, 54, 1298-1314.	1.7	39
48	First observations of the planetary Fourier spectrometer at Mars. <i>Advances in Space Research</i> , 2005, 36, 1074-1083.	2.6	3
49	The Planetary Fourier Spectrometer (PFS) onboard the European Mars Express mission. <i>Planetary and Space Science</i> , 2005, 53, 963-974.	1.7	151
50	Calibration of the Planetary Fourier Spectrometer short wavelength channel. <i>Planetary and Space Science</i> , 2005, 53, 975-991.	1.7	43
51	Water clouds and dust aerosols observations with PFS MEX at Mars. <i>Planetary and Space Science</i> , 2005, 53, 1065-1077.	1.7	32
52	PFS-MEX observation of ices in the residual south polar cap of Mars. <i>Planetary and Space Science</i> , 2005, 53, 1089-1095.	1.7	22
53	Methods for the analysis of data from the Planetary Fourier Spectrometer on the Mars Express Mission. <i>Planetary and Space Science</i> , 2005, 53, 1017-1034.	1.7	51
54	Calibration of the Planetary Fourier Spectrometer long wavelength channel. <i>Planetary and Space Science</i> , 2005, 53, 993-1007.	1.7	43

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55	The Martian atmosphere above great volcanoes: Early planetary Fourier spectrometer observations. Planetary and Space Science, 2005, 53, 1053-1064.	1.7	22
56	A Martian PFS average spectrum: Comparison with ISO SWS. Planetary and Space Science, 2005, 53, 1043-1052.	1.7	9
57	Detection of Methane in the Atmosphere of Mars. Science, 2004, 306, 1758-1761.	12.6	683