

Manuel de la Torre Juarez

List of Publications by Year in descending order

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73
papers

4,236
citations

136950

32
h-index

110387

64
g-index

82
all docs

82
docs citations

82
times ranked

3864
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing Horizontally Oriented Frozen Particles With Polarimetric Radio Occultations Aboard PAZ: Validation Using GMI Coincident Observations and Cloudsat <i>a Priori</i> Information. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	5
2	The Effects of Heavy Precipitation on Polarimetric Radio Occultation (PRO) Bending Angle Observations. Journal of Atmospheric and Oceanic Technology, 2022, 39, 149-161.	1.3	1
3	In situ recording of Mars soundscape. Nature, 2022, 605, 653-658.	27.8	30
4	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. Science Advances, 2022, 8, .	10.3	47
5	Mars Oxygen ISRU Experiment (MOXIE). Space Science Reviews, 2021, 217, 1.	8.1	56
6	Multi-model Meteorological and Aeolian Predictions for Mars 2020 and the Jezero Crater Region. Space Science Reviews, 2021, 217, 20.	8.1	35
7	The Mars Environmental Dynamics Analyzer, MEDA. A Suite of Environmental Sensors for the Mars 2020 Mission. Space Science Reviews, 2021, 217, 48.	8.1	57
8	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
9	Interpretation of the Precipitation Structure Contained in Polarimetric Radio Occultation Profiles Using Passive Microwave Satellite Observations. Journal of Atmospheric and Oceanic Technology, 2021, , .	1.3	3
10	The Surface Energy Budget at Gale Crater During the First 2500 Sols of the Mars Science Laboratory Mission. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006804.	3.6	16
11	Thermal Forcing of the Nocturnal Near Surface Environment by Martian Water Ice Clouds. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	3
12	Calibration and validation of the Polarimetric Radio Occultation and Heavy Precipitation experiment aboard the PAZ satellite. Atmospheric Measurement Techniques, 2020, 13, 1299-1313.	3.1	8
13	GNSS-RO Refractivity Bias Correction Under Ducting Layer Using Surface-Reflection Signal. Remote Sensing, 2020, 12, 359.	4.0	7
14	Effects of the MY34/2018 Global Dust Storm as Measured by MSL REMS in Gale Crater. Journal of Geophysical Research E: Planets, 2019, 124, 1899-1912.	3.6	40
15	Benefits of a Closely-Spaced Satellite Constellation of Atmospheric Polarimetric Radio Occultation Measurements. Remote Sensing, 2019, 11, 2399.	4.0	9
16	Sensing Heavy Precipitation With GNSS Polarimetric Radio Occultations. Geophysical Research Letters, 2019, 46, 1024-1031.	4.0	26
17	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. Geophysical Research Letters, 2019, 46, 71-79.	4.0	138
18	Detection of Northern Hemisphere transient eddies at Gale Crater Mars. Icarus, 2018, 307, 150-160.	2.5	27

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19	The Effect of Bagnold Dunes Slopes on the Short Timescale Air Temperature Fluctuations at Gale Crater on Mars. <i>Geophysical Research Letters</i> , 2018, 45, 11,588.	4.0	10
20	Signatures of Heavy Precipitation on the Thermodynamics of Clouds Seen From Satellite: Changes Observed in Temperature Lapse Rates and Missed by Weather Analyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,033.	3.3	3
21	Assessment of global navigation satellite system (GNSS) radio occultation refractivity under heavy precipitation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11697-11708.	4.9	9
22	Determination of dust aerosol particle size at Gale Crater using REMS UVS and Mastcam measurements. <i>Geophysical Research Letters</i> , 2017, 44, 3502-3508.	4.0	34
23	Correcting negatively biased refractivity below ducts in GNSS radio occultation: an optimal estimation approach towards improving planetary boundary layer (PBL) characterization. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4761-4776.	3.1	11
24	Análisis de las condiciones ambientales en el cráter Gale a partir de mediciones REMS/MSL. <i>Física De La Tierra</i> , 2016, 28, .	0.1	2
25	Likely frost events at Gale crater: Analysis from MSL/REMS measurements. <i>Icarus</i> , 2016, 280, 93-102.	2.5	44
26	Atmospheric polarimetric effects on GNSS radio occultations: the ROHP-PAZ field campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 635-649.	4.9	30
27	Atmospheric tides in Gale Crater, Mars. <i>Icarus</i> , 2016, 268, 37-49.	2.5	45
28	The first Martian year of cloud activity from Mars Science Laboratory (sol 0-800). <i>Advances in Space Research</i> , 2016, 57, 1223-1240.	2.6	20
29	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
30	Atmospheric movies acquired at the Mars Science Laboratory landing site: Cloud morphology, frequency and significance to the Gale Crater water cycle and Phoenix mission results. <i>Advances in Space Research</i> , 2015, 55, 2217-2238.	2.6	28
31	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
32	Mars™ Surface Radiation Environment Measured with the Mars Science Laboratory™s Curiosity Rover. <i>Science</i> , 2014, 343, 1244-1247.	12.6	475
33	Intercomparison of general circulation models for hot extrasolar planets. <i>Icarus</i> , 2014, 229, 355-377.	2.5	48
34	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
35	Observations and preliminary science results from the first 100 sols of MSL Rover Environmental Monitoring Station ground temperature sensor measurements at Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 745-770.	3.6	67
36	Pressure observations by the Curiosity rover: Initial results. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 82-92.	3.6	84

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37	Surface energy budget and thermal inertia at Gale Crater: Calculations from ground-based measurements. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1822-1838.	3.6	46
38	Airborne imaging spectroscopy to monitor urban mosquito microhabitats. <i>Remote Sensing of Environment</i> , 2013, 137, 226-233.	11.0	10
39	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
40	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
41	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
42	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4057-4072.	4.9	61
43	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. <i>Space Science Reviews</i> , 2012, 170, 583-640.	8.1	247
44	Scale-by-scale analysis of probability distributions for global MODIS-AQUA cloud properties: how the large scale signature of turbulence may impact statistical analyses of clouds. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2893-2901.	4.9	6
45	Taylor's Proudman columns in non-hydrostatic divergent baroclinic and barotropic flows. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 2179-2184.	2.7	2
46	Detection of temperatures conducive to Arctic polar stratospheric clouds using CHAMP and SAC-C radio occultation data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	7
47	Comparison of upper tropospheric water vapor observations from the Microwave Limb Sounder and Atmospheric Infrared Sounder. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	60
48	Sensitivity of GPS occultation to the stratopause height. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	7
49	Remote sounding of atmospheric gravity waves with satellite limb and nadir techniques. <i>Advances in Space Research</i> , 2006, 37, 2269-2277.	2.6	118
50	Sensitivity of Stratospheric Retrievals from Radio Occultations on Upper Boundary Conditions. , 2006, , 17-26.		7
51	Sporadic Morphology from GPS-CHAMP radio occultation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	155
52	Single frequency processing of atmospheric radio occultations. <i>International Journal of Remote Sensing</i> , 2004, 25, 3731-3744.	2.9	7
53	CHAMP and SAC-C atmospheric occultation results and intercomparisons. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	291
54	Carrier phase delay altimetry with GPS-reflection/occultation interferometry from low Earth orbiters. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	69

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55	Remote Sensing of Fine-Scale Vertical Structures in the Atmosphere with GPS Occultations. , 2004, , .		3
56	Tropical Tropopause Structure and Processes as Observed with GPS Radio Occultation. , 2004, , .		0
57	On the detection of water vapor profiles and thin moisture layers from atmospheric radio occultations. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	6
58	Evaluation of CHAMP radio occultation refractivity using data assimilation office analyses and radiosondes. Geophysical Research Letters, 2003, 30, .	4.0	9
59	Geostrophic Thermal Winds with a Full Coriolis Force: Response to "Thermal Wind Balance with Full Geostrophy" By J.-I. Yano. Geophysical and Astrophysical Fluid Dynamics, 2002, 96, 431-434.	1.2	1
60	A high-resolution, three-dimensional model of Jupiter's Great Red Spot. Journal of Geophysical Research, 2001, 106, 5099-5105.	3.3	32
61	The three-dimensional vortical nature of atmospheric and oceanic turbulent flows. Physics of Fluids, 1999, 11, 1512-1520.	4.0	48
62	The instability and breakdown of tall columnar vortices in a quasi-geostrophic fluid. Journal of Fluid Mechanics, 1996, 328, 129-160.	3.4	79
63	Stability of two-dimensional convection in a fluid-saturated porous medium. Journal of Fluid Mechanics, 1995, 292, 305-323.	3.4	24
64	The effect of impulsive forces on a system with friction: the example of the billiard game. European Journal of Physics, 1994, 15, 184-190.	0.6	7
65	Phase shift of dielectric rolls in electroconvection. Physical Review A, 1992, 46, 1009-1013.	2.5	15
66	Thermally induced hydrodynamic fluctuations below the onset of electroconvection. Physical Review Letters, 1991, 67, 596-599.	7.8	116
67	Four-wave resonance in electrohydrodynamic convection. Physical Review A, 1990, 42, 2096-2100.	2.5	37
68	Experiments with Travelling Waves in Electrohydrodynamic Convection. NATO ASI Series Series B: Physics, 1990, , 65-67.	0.2	0
69	Pattern formation in a liquid crystal. , 1989, , 35-52.		40
70	Soft Transition between Type-I and -III Intermittencies in a Nonlinear Map. Progress of Theoretical Physics, 1989, 81, 544-548.	2.0	1
71	Transient structures in the Fr�edericksz transition. Physical Review A, 1989, 40, 7427-7430.	2.5	22
72	Intermittencies and power-law low-frequency divergencies in a nonlinear oscillator. Physica D: Nonlinear Phenomena, 1989, 36, 92-108.	2.8	14

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73	Temporal Modulation of Traveling Waves. Physical Review Letters, 1988, 61, 2449-2452.	7.8	81