

Francisco González-Galindo

List of Publications by Year in descending order

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62
papers

2,246
citations

218677

26
h-index

223800

46
g-index

83
all docs

83
docs citations

83
times ranked

1448
citing authors

#	ARTICLE	IF	CITATIONS
1	Density and temperatures of the upper Martian atmosphere measured by stellar occultations with Mars Express SPICAM. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	200
2	Three-dimensional Martian ionosphere model: I. The photochemical ionosphere below 180 km. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2105-2123.	3.6	118
3	A ground-to-exosphere Martian general circulation model: 1. Seasonal, diurnal, and solar cycle variation of thermospheric temperatures. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	107
4	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
5	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
6	On the distribution of CO ₂ and CO in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5700-5718.	3.3	90
7	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
8	Variability of the hydrogen in the martian upper atmosphere as simulated by a 3D atmosphere-exosphere coupling. <i>Icarus</i> , 2015, 245, 282-294.	2.5	77
9	Mapping the mesospheric CO ₂ clouds on Mars: MEx/OMEGA and MEx/HRSC observations and challenges for atmospheric models. <i>Icarus</i> , 2010, 209, 452-469.	2.5	71
10	Gravity waves, cold pockets and CO ₂ clouds in the Martian mesosphere. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	71
11	Variability of the Martian thermosphere during eight Martian years as simulated by a ground-to-exosphere global circulation model. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 2020-2035.	3.6	67
12	The first Mars thermospheric general circulation model: The Martian atmosphere from the ground to 240 km. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	65
13	Extension of a Martian general circulation model to thermospheric altitudes: UV heating and photochemical models. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	65
14	Distribution of the ultraviolet nitric oxide Martian night airglow: Observations from Mars Express and comparisons with a one-dimensional model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	59
15	Mars-solar wind interaction: LatHyS, an improved parallel 3D multispecies hybrid model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6378-6399.	2.4	54
16	Mars exospheric thermal and non-thermal components: Seasonal and local variations. <i>Icarus</i> , 2012, 221, 682-693.	2.5	51
17	Three-dimensional Martian ionosphere model: II. Effect of transport processes due to pressure gradients. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1614-1636.	3.6	51
18	Cooling of the Martian thermosphere by CO ₂ radiation and gravity waves: An intercomparison study with two general circulation models. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 913-927.	3.6	51

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19	The dayside ionospheres of Mars and Venus: Comparing a one-dimensional photochemical model with MaRS (Mars Express) and VeRa (Venus Express) observations. <i>Icarus</i> , 2014, 233, 66-82.	2.5	47
20	A ground-to-exosphere Martian general circulation model: 2. Atmosphere during solstice conditions—Thermospheric polar warming. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	43
21	The martian mesosphere as revealed by CO ₂ cloud observations and General Circulation Modeling. <i>Icarus</i> , 2011, 216, 10-22.	2.5	41
22	New nitric oxide (NO) nightglow measurements with SPICAM/MEx as a tracer of Mars upper atmosphere circulation and comparison with LMD-MGCM model prediction: Evidence for asymmetric hemispheres. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2172-2179.	3.6	37
23	Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMD-MGCM predictions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5782-5797.	2.4	36
24	Upper Neutral Atmosphere and Ionosphere. , 2017, , 433-463.		33
25	Expected performances of the NOMAD/ExoMars instrument. <i>Planetary and Space Science</i> , 2016, 124, 94-104.	1.7	31
26	Thermal structure of the upper atmosphere of Venus simulated by a ground-to-thermosphere GCM. <i>Icarus</i> , 2017, 281, 55-72.	2.5	31
27	Temporal variability of waves at the proton cyclotron frequency upstream from Mars: Implications for Mars distant hydrogen exosphere. <i>Geophysical Research Letters</i> , 2013, 40, 3809-3813.	4.0	29
28	On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2401-2428.	3.6	27
29	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. <i>Optics Express</i> , 2015, 23, 30028.	3.4	26
30	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
31	Thermal and wind structure of the Martian thermosphere as given by two General Circulation Models. <i>Planetary and Space Science</i> , 2010, 58, 1832-1849.	1.7	24
32	An extremely high-altitude plume seen at Mars's morning terminator. <i>Nature</i> , 2015, 518, 525-528.	27.8	24
33	MAVEN ROSE Observations of the Response of the Martian Ionosphere to Dust Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027083.	2.4	22
34	Spatial, Seasonal, and Solar Cycle Variations of the Martian Total Electron Content (TEC): Is the TEC a Good Tracer for Atmospheric Cycles?. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1746-1759.	3.6	20
35	Modeling Wind-Driven Ionospheric Dynamo Currents at Mars: Expectations for InSight Magnetic Field Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 5083-5091.	4.0	20
36	MAVEN/NGIMS Thermospheric Neutral Wind Observations: Interpretation Using the M-GITM General Circulation Model. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3283-3303.	3.6	20

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37	The lower dayside ionosphere of Mars from 14 years of MaRS radio science observations. <i>Icarus</i> , 2021, 359, 114213.	2.5	18
38	Study of the hydrogen escape rate at Mars during martian years 28 and 29 from comparisons between SPICAM/Mars express observations and GCM-LMD simulations. <i>Icarus</i> , 2021, 353, 113498.	2.5	16
39	Four Martian years of nightside upper thermospheric mass densities derived from electron reflectometry: Method extension and comparison with GCM simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
40	Tidal Wave-Driven Variability in the Mars Ionosphere-Thermosphere System. <i>Atmosphere</i> , 2020, 11, 521.	2.3	14
41	Investigations of the Mars Upper Atmosphere with ExoMars Trace Gas Orbiter. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	13
42	UV Dayglow Variability on Mars: Simulation With a Global Climate Model and Comparison With SPICAM/MEx Data. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1934-1952.	3.6	13
43	Imaging of Martian Circulation Patterns and Atmospheric Tides Through MAVEN/IUVS Nightglow Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027318.	2.4	13
44	Seasonal and Geographical Variability of the Martian Ionosphere From Mars Express Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006661.	3.6	13
45	MAVEN and the total electron content of the Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3526-3537.	2.4	12
46	Mesospheric OH layer altitude at midlatitudes: variability over the Sierra Nevada Observatory in Granada, Spain (37°N, 3°W). <i>Annales Geophysicae</i> , 2017, 35, 1151-1164.	1.6	10
47	The Mars Climate Database (version 4.3). , 0, , .		9
48	Global distributions of CO ₂ volume mixing ratio in the middle and upper atmosphere from daytime MIPAS high-resolution spectra. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 6081-6100.	3.1	9
49	Troposphere-to-mesosphere microphysics of carbon dioxide ice clouds in a Mars Global Climate Model. <i>Icarus</i> , 2022, 385, 115098.	2.5	9
50	Modeled O ₂ airglow distributions in the Martian atmosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
51	CO ₂ non-LTE limb emissions in Mars' atmosphere as observed by OMEGA/Mars Express. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1066-1086.	3.6	6
52	MIPAS observations of longitudinal oscillations in the mesosphere and the lower thermosphere: climatology of odd-parity daily frequency modes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11019-11041.	4.9	6
53	Effect of the Lateral Exospheric Transport on the Horizontal Hydrogen Distribution Near the Exobase of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2441-2454.	2.4	6
54	CO ₂ retrievals in the Mars daylight thermosphere from its 4.3-μm limb emission measured by OMEGA/MEx. <i>Icarus</i> , 2021, 353, 113830.	2.5	6

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55	Density and Temperature of the Upper Mesosphere and Lower Thermosphere of Mars Retrieved From the OI 557.7Ånm Dayglow Measured by TGO/NOMAD. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	6
56	The Wave Origins of Longitudinal Structures in ExoMars Trace Gas Orbiter (TGO) Aerobraking Densities. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028769.	2.4	5
57	Improved Modeling of Mars' HDO Cycle Using a Mars' Global Climate Model. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	5
58	First Detection of a Brief Mesoscale Elevated Stratopause in Very Early Winter. Geophysical Research Letters, 2020, 47, e2019GL086751.	4.0	4
59	Isobar Altitude Variations in the Upper Mesosphere Observed With IUVSâ€œMAVEN in Response to Martian Dust Storms. Geophysical Research Letters, 2020, 47, e2020GL087468.	4.0	4
60	The HDO Cycle on Mars: Comparison of ACS Observations With GCM Simulations. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	4
61	Reply to comment â€œOn the hydrogen escape: Comment to variability of the hydrogen in the Martian upper atmosphere as simulated by a 3D atmosphere-exosphere coupling by J.-Y. Chaufray etÂ€•by V. Krasnopolsky, Icarus, 281, 262. Icarus, 2018, 301, 132-135.	2.5	2
62	On the derivation of thermospheric temperatures from dayglow emissions on Mars. Icarus, 2021, 358, 114284.	2.5	2