Francisco Javier MartÃ-n-Torres

List of Publications by Year
in descending order

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166 papers	11,522 citations	30070 54 h-index	29157 104 g-index
172 all docs	172 docs citations	172 times ranked	7743 citing authors

#	Article	IF	Citations
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	12.6	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	12.6	508
3	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	12.6	475
4	Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2015, 120, 495-514.	3.6	375
5	Mars methane detection and variability at Gale crater. Science, 2015, 347, 415-417.	12.6	373
6	Assessment of the quality of the Version 1.07 temperatureâ€versusâ€pressure profiles of the middle atmosphere from TIMED/SABER. Journal of Geophysical Research, 2008, 113, .	3.3	369
7	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367
8	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	12.6	327
9	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	12.6	327
10	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	12.6	323
11	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	12.6	280
12	Transient liquid water and water activity at Gale crater on Mars. Nature Geoscience, 2015, 8, 357-361.	12.9	277
13	UAVs as remote sensing platform in glaciology: Present applications and future prospects. Remote Sensing of Environment, 2016, 175, 196-204.	11.0	271
14	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. Space Science Reviews, 2012, 170, 583-640.	8.1	247
15	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
16	Habitability: A Review. Astrobiology, 2016, 16, 89-117.	3.0	246
17	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263.	12.6	241
18	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	12.6	224

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19	Background levels of methane in Marsâ€™ atmosphere show strong seasonal variations. Science, 2018, 360, 1093-1096.	12.6	224
20	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	12.6	215
21	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the Curiosity rover investigations at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4245-4250.	7.1	172
22	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. Geophysical Research Letters, 2019, 46, 71-79.	4.0	138
23	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	12.6	134
24	The natural thermostat of nitric oxide emission at 5.3 Î¼m in the thermosphere observed during the solar storms of April 2002. Geophysical Research Letters, 2003, 30, .	4.0	123
25	The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	119
26	The imprint of atmospheric evolution in the D/H of Hesperian clay minerals on Mars. Science, 2015, 347, 412-414.	12.6	113
27	Curiosity's rover environmental monitoring station: Overview of the first 100 sols. Journal of Geophysical Research E: Planets, 2014, 119, 1680-1688.	3.6	112
28	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520.	27.8	111
29	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407.	4.0	110
30	Vegetation Signature in the Observed Globally Integrated Spectrum of Earth Considering Simultaneous Cloud Data: Applications for Extrasolar Planets. Astrophysical Journal, 2006, 651, 544-552.	4.5	109
31	Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525.	27.8	107
32	Energy transport in the thermosphere during the solar storms of April 2002. Journal of Geophysical Research, 2005, 110, .	3.3	105
33	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	12.6	103
34	Observations of infrared radiative cooling in the thermosphere on daily to multiyear timescales from the TIMED/SABER instrument. Journal of Geophysical Research, 2010, 115, .	3.3	102
35	Atomic oxygen in the mesosphere and lower thermosphere derived from SABER: Algorithm theoretical basis and measurement uncertainty. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5724-5735.	3.3	101
36	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98

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37	In Situ Compositional Measurements of Rocks and Soils with the Alpha Particle X-ray Spectrometer on NASA's Mars Rovers. Elements, 2015, 11, 39-44.	0.5	91
38	Solarâ€terrestrial coupling evidenced by periodic behavior in geomagnetic indexes and the infrared energy budget of the thermosphere. Geophysical Research Letters, 2008, 35, .	4.0	86
39	Pressure observations by the Curiosity rover: Initial results. Journal of Geophysical Research E: Planets, 2014, 119, 82-92.	3.6	84
40	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.	3.6	80
41	Mars Science Laboratory relative humidity observations: Initial results. Journal of Geophysical Research E: Planets, 2014, 119, 2132-2147.	3.6	75
42	Detection of sporadic impact flashes on the Moon: Implications for the luminous efficiency of hypervelocity impacts and derived terrestrial impact rates. Icarus, 2006, 184, 319-326.	2.5	74
43	LiDAR remote sensing of the cryosphere: Present applications and future prospects. Remote Sensing of Environment, 2016, 177, 125-143.	11.0	73
44	Seasonal Variations in Atmospheric Composition as Measured in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2019, 124, 3000-3024.	3.6	71
45	ChemCam passive reflectance spectroscopy of surface materials at the Curiosity landing site, Mars. Icarus, 2015, 249, 74-92.	2.5	70
46	Observations and preliminary science results from the first 100 sols of MSL Rover Environmental Monitoring Station ground temperature sensor measurements at Gale Crater. Journal of Geophysical Research E: Planets, 2014, 119, 745-770.	3.6	67
47	Sounding of the Atmosphere using Broadband Emission Radiometry observations of daytime mesospheric O₂(¹Î”) 1.27 Î¼m emission and derivation of ozone, atomic oxygen, and solar and chemical energy deposition rates. Journal of Geophysical Research, 2007, 112, .	3.3	66
48	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.	2.5	66
49	Compositions of coarse and fine particles in martian soils at gale: A window into the production of soils. Icarus, 2015, 249, 22-42.	2.5	64
50	Infrared Spectrometer for ExoMars: A Mast-Mounted Instrument for the Rover. Astrobiology, 2017, 17, 542-564.	3.0	61
51	A blind test retrieval experiment for infrared limb emission spectrometry. Journal of Geophysical Research, 2003, 108, .	3.3	57
52	Himalayan glaciers experienced significant mass loss during later phases of little ice age. Scientific Reports, 2017, 7, 10305.	3.3	57
53	Mid-infrared spectroscopy of Uranus from the Spitzer Infrared Spectrometer: 1. Determination of the mean temperature structure of the upper troposphere and stratosphere. Icarus, 2014, 243, 494-513.	2.5	56
54	Curiosity's Mission of Exploration at Gale Crater, Mars. Elements, 2015, 11, 19-26.	0.5	55

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55	Convective vortices and dust devils at the MSL landing site: Annual variability. Journal of Geophysical Research E: Planets, 2016, 121, 1514-1549.	3.6	55
56	ChemCam: Chemostratigraphy by the First Mars Microprobe. Elements, 2015, 11, 33-38.	0.5	54
57	Mid-infrared spectroscopy of Uranus from the Spitzer infrared spectrometer: 2. Determination of the mean composition of the upper troposphere and stratosphere. Icarus, 2014, 243, 471-493.	2.5	53
58	Satellite observations of daytime and nighttime ozone in the mesosphere and lower thermosphere. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	51
59	Fluids during diagenesis and sulfate vein formation in sediments at Gale crater, Mars. Meteoritics and Planetary Science, 2016, 51, 2175-2202.	1.6	50
60	Aerosol optical depth as observed by the Mars Science Laboratory REMS UV photodiodes. Icarus, 2016, 280, 234-248.	2.5	48
61	Satellite observations of high nighttime ozone at the equatorial mesopause. Journal of Geophysical Research, 2008, 113, .	3.3	46
62	Optimized spectral microwindows for data analysis of the Michelson Interferometer for Passive Atmospheric Sounding on the Environmental Satellite. Applied Optics, 2000, 39, 5531.	2.1	45
63	Correcting for variable laser-target distances of laser-induced breakdown spectroscopy measurements with ChemCam using emission lines of Martian dust spectra. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 96, 51-60.	2.9	45
64	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
65	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.	3.6	44
66	Comparison of Martian surface ionizing radiation measurements from MSLâ€RAD with Badhwarâ€Ó'Neill 2011/HZETRN model calculations. Journal of Geophysical Research E: Planets, 2014, 119, 1311-1321.	3.6	42
67	Martian slope streaks as plausible indicators of transient water activity. Scientific Reports, 2017, 7, 7074.	3.3	42
68	Martian Eolian Dust Probed by ChemCam. Geophysical Research Letters, 2018, 45, 10,968.	4.0	40
69	Determining Mineralogy on Mars with the CheMin X-Ray Diffractometer. Elements, 2015, 11, 45-50.	0.5	39
70	Gale crater and impact processes â€“ Curiosityâ€™s first 364 Sols on Mars. Icarus, 2015, 249, 108-128.	2.5	37
71	Aeolian transport of viable microbial life across the Atacama Desert, Chile: Implications for Mars. Scientific Reports, 2019, 9, 11024.	3.3	36
72	Heterogeneity in topographic control on velocities of Western Himalayan glaciers. Scientific Reports, 2018, 8, 12843.	3.3	35

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73	Evidence for a solar cycle influence on the infrared energy budget and radiative cooling of the thermosphere. Journal of Geophysical Research, 2007, 112, .	3.3	34
74	Local variations of bulk hydrogen and chlorineâ€equivalent neutron absorption content measured at the contact between the Sheepbed and Gillespie Lake units in Yellowknife Bay, Gale Crater, using the DAN instrument onboard Curiosity. Journal of Geophysical Research E: Planets, 2014, 119, 1259-1275.	3.6	33
75	A review on remotely sensed land surface temperature anomaly as an earthquake precursor. International Journal of Applied Earth Observation and Geoinformation, 2017, 63, 158-166.	2.8	32
76	Planetary boundary layer and circulation dynamics at Gale Crater, Mars. Icarus, 2018, 302, 537-559.	2.5	32
77	Variability of the mesospheric nightglow sodium D2/D1ratio. Journal of Geophysical Research, 2005, 110, .	3.3	31
78	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
79	An inter-comparison of far-infrared line-by-line radiative transfer models. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 90, 323-341.	2.3	29
80	A full martian year of line-of-sight extinction within Gale Crater, Mars as acquired by the MSL Navcam through sol 900. Icarus, 2016, 264, 102-108.	2.5	29
81	Modelling of non-LTE limb spectra of i.r. ozone bands for the MIPAS space experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 59, 405-422.	2.3	28
82	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. Advances in Space Research, 2015, 55, 2217-2238.	2.6	28
83	Are Slope Streaks Indicative of Globalâ€Scale Aqueous Processes on Contemporary Mars?. Reviews of Geophysics, 2019, 57, 48-77.	23.0	27
84	MODIS-based estimates of strong snow surface temperature anomaly related to high altitude earthquakes of 2015. Remote Sensing of Environment, 2017, 188, 1-8.	11.0	23
85	Abiotic Input of Fixed Nitrogen by Bolide Impacts to Gale Crater During the Hesperian: Insights From the Mars Science Laboratory. Journal of Geophysical Research E: Planets, 2019, 124, 94-113.	3.6	23
86	The Vertical Dust Profile Over Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2779-2792.	3.6	22
87	The first Martian year of cloud activity from Mars Science Laboratory (sol 0â€“800). Advances in Space Research, 2016, 57, 1223-1240.	2.6	20
88	Ladakh: diverse, high-altitude extreme environments for off-earth analogue and astrobiology research. International Journal of Astrobiology, 2020, 19, 78-98.	1.6	20
89	Decreases in atomic hydrogen over the summer pole: Evidence for dehydration from polar mesospheric clouds?. Geophysical Research Letters, 2008, 35, .	4.0	19
90	Clues on the importance of comets in the origin and evolution of the atmospheres of Titan and Earth. Planetary and Space Science, 2012, 60, 3-9.	1.7	19

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91	Space Environmental Chamber for Planetary Studies. Sensors, 2020, 20, 3996.	3.8	18
92	Non-local thermodynamic equilibrium limb radiances for the mipas instrument on Envisat-1. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 59, 377-403.	2.3	17
93	Observations of the O(3P) fine structure line at 63 Î¼m in the upper mesosphere and lower thermosphere. Journal of Geophysical Research, 2004, 109, .	3.3	17
94	Comparison of nighttime nitric oxide 5.3 Î¼m emissions in the thermosphere measured by MIPAS and SABER. Journal of Geophysical Research, 2007, 112, .	3.3	17
95	Human vision is determined based on information theory. Scientific Reports, 2016, 6, 36038.	3.3	17
96	Subsurface scientific exploration of extraterrestrial environments (MINAR 5): analogue science, technology and education in the Boulby Mine, UK. International Journal of Astrobiology, 2019, 18, 157-182.	1.6	17
97	A surface temperature and moisture intercomparison study of the Weather Research and Forecasting model, inâ€situ measurements and satellite observations over the Atacama Desert. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 2202-2220.	2.7	17
98	Analysis of wind-induced dynamic pressure fluctuations during one and a half Martian years at Gale Crater. Icarus, 2017, 288, 78-87.	2.5	15
99	Distribution and Morphologies of Transverse Aeolian Ridges in ExoMars 2020 Rover Landing Site. Remote Sensing, 2019, 11, 912.	4.0	15
100	A Review of Sample Analysis at Mars-Evolved Gas Analysis Laboratory Analog Work Supporting the Presence of Perchlorates and Chlorates in Gale Crater, Mars. Minerals (Basel, Switzerland), 2021, 11, 475.	2.0	14
101	UV/Vis+ photochemistry database: Structure, content and applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107056.	2.3	14
102	Images from Curiosity: A New Look at Mars. Elements, 2015, 11, 27-32.	0.5	13
103	Petrographic and geochemical evidence for multiphase formation of carbonates in the Martian orthopyroxenite Allan Hills 84001. Meteoritics and Planetary Science, 2017, 52, 1030-1047.	1.6	13
104	Correction to â€œEnergy transport in the thermosphere during the solar storms of April 2002â€• Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	12
105	Volatile and Isotopic Imprints of Ancient Mars. Elements, 2015, 11, 51-56.	0.5	12
106	Solar and wind exergy potentials for Mars. Energy, 2016, 102, 550-558.	8.8	12
107	Discovery of recurring slope lineae candidates in Mawrth Vallis, Mars. Scientific Reports, 2019, 9, 2040.	3.3	12
108	Quantifying the Congruence between Air and Land Surface Temperatures for Various Climatic and Elevation Zones of Western Himalaya. Remote Sensing, 2019, 11, 2889.	4.0	12

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109	Meso-microscale coupling for wind resource assessment using averaged atmospheric stability conditions. Meteorologische Zeitschrift, 2019, 28, 273-291.	1.0	12
110	A Hybrid Statistical-Dynamical Downscaling of Air Temperature over Scandinavia Using the WRF Model. Advances in Atmospheric Sciences, 2020, 37, 57-74.	4.3	11
111	The HABIT (HabitAbility: Brine Irradiation and Temperature) environmental instrument for the ExoMars 2022 Surface Platform. Planetary and Space Science, 2020, 190, 104968.	1.7	10
112	Modelling of the non-LTE populations of thenitricacid and methane vibrational states in themiddleatmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 1998, 60, 1631-1647.	1.6	9
113	Calibration and preliminary tests of the Brine Observation Transition To Liquid Experiment on HABIT/ExoMars 2020 for demonstration of liquid water stability on Mars. Acta Astronautica, 2019, 162, 497-510.	3.2	9
114	Spatial Variations in the Altitude of the CH₄ Homopause at Jupiterâ€™s Mid-to-high Latitudes, as Constrained from IRTF-TEXES Spectra. Planetary Science Journal, 2020, 1, 85.	3.6	9
115	Should We Invest in Martian Brine Research to Reduce Mars Exploration Costs?. Astrobiology, 2017, 17, 3-7.	3.0	8
116	Chemobrionic Fabrication of Hierarchical Selfâ€Assembling Nanostructures of Copper Oxide and Hydroxide. ChemSystemsChem, 2019, 1, e1900011.	2.6	8
117	MARSWRF Prediction of Entry Descent Landing Profiles: Applications to Mars Exploration. Earth and Space Science, 2019, 6, 1440-1459.	2.6	8
118	Wind retrieval from temperature measurements from the Rover Environmental Monitoring Station/Mars Science Laboratory. Icarus, 2020, 346, 113785.	2.5	8
119	Adsorption of methane and CO 2 onto olivine surfaces in Martian dust conditions. Planetary and Space Science, 2018, 153, 163-171.	1.7	7
120	ATMO-vent: An adapted breathing atmosphere for COVID-19 patients. HardwareX, 2020, 8, e00145.	2.2	7
121	Fully Interactive and Refined Resolution Simulations of the Martian Dust Cycle by the MarsWRF Model. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006253.	3.6	7
122	Thermospheric infrared radiance response to the April 2002 geomagnetic storm from SABER infrared and GUVI ultraviolet limb data. , 2004, , .		6
123	Sample Collection and Return from Mars: Optimising Sample Collection Based on the Microbial Ecology of Terrestrial Volcanic Environments. Space Science Reviews, 2019, 215, 1.	8.1	6
124	High-resolution dynamical downscaling of re-analysis data over the Kerguelen Islands using the WRF model. Theoretical and Applied Climatology, 2019, 135, 1259-1277.	2.8	6
125	Atmospheric composition of exoplanets based on the thermal escape of gases and implications for habitability. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200148.	2.1	6
126	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5

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127	Solar cell temperature on Mars. Solar Energy, 2015, 118, 74-79.	6.1	5
128	Martian Top of the Atmosphere 10â€“420 nm spectral irradiance database and forecast for solar cycle 24. Solar Energy, 2016, 134, 228-235.	6.1	5
129	UAV Imaging of a Martian Brine Analogue Environment in a Fluvio-Aeolian Setting. Remote Sensing, 2019, 11, 2104.	4.0	5
130	Weather Simulation Uncertainty Estimation Using Bayesian Hierarchical Models. Journal of Applied Meteorology and Climatology, 2019, 58, 585-603.	1.5	5
131	DFT study of the reduction reaction of calcium perchlorate on olivine surface: Implications to formation of Martianâ€™s regolith. Applied Surface Science, 2020, 512, 145634.	6.1	5
132	Implication of Impacts in the Young Earth Sun Paradox and the Evolution of Earthâ€™s Atmosphere. Thirty Years of Astronomical Discovery With UKIRT, 2013, , 85-97.	0.3	5
133	Special issue on planetary atmospheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 881.	2.3	4
134	VISTA Instrument: A PCM-Based Sensor for Organics and Volatiles Characterization by Using Thermogravimetric Technique. , 2018, , .		4
135	Subsurface robotic exploration for geomorphology, astrobiology and mining during MINAR6 campaign, Boulby Mine, UK: part I (Rover development). International Journal of Astrobiology, 2020, 19, 110-125.	1.6	4
136	DFT study of electronic and redox properties of TiO2 supported on olivine for modelling regolith on Moon and Mars conditions. Planetary and Space Science, 2020, 180, 104760.	1.7	4
137	Pressure Optimized PowEred Respirator (PROPER): A miniaturized wearable cleanroom and biosafety system for aerially transmitted viral infections such as COVID-19. HardwareX, 2020, 8, e00144.	2.2	4
138	Implementing bioburden reduction and control on the deliquescent hydrogel of the HABIT/ExoMars 2022 instrument. Acta Astronautica, 2020, 173, 232-239.	3.2	4
139	Small Lava Caves as Possible Exploratory Targets on Mars: Analogies Drawn from UAV Imaging of an Icelandic Lava Field. Remote Sensing, 2020, 12, 1970.	4.0	4
140	PACKMAN â€“ A portable instrument to investigate space weather. HardwareX, 2021, 9, e00169.	2.2	4
141	Experimental Investigation of the Atmosphere-Regolith Water Cycle on Present-Day Mars. Sensors, 2021, 21, 7421.	3.8	4
142	Development of a wind retrieval method for low-speed low-pressure flows for ExoMars. Applied Thermal Engineering, 2020, 180, 115752.	6.0	3
143	Toward More Realistic Simulation and Prediction of Dust Storms on Mars. , 2021, 53, .		3
144	Numerical heat transfer study of a space environmental testing facility using COMSOL Multiphysics. Thermal Science and Engineering Progress, 2022, 29, 101205.	2.7	3

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145	Active ground patterns near Mars' equator in the Glen Torridon region of Gale Crater. Journal of Geophysical Research E: Planets, 0, , .	3.6	3
146	Non-LTE studies for the analysis of MIPAS/ENVISAT data. , 2002, , .		2
147	New non-LTE retrieval method for atmospheric parameters from MIPAS/ENVISAT emission spectra at 5.3 Î¼ m. , 2002, 4539, 396.		2
148	A Mathematic Approach to Nitrogen Fixation Through Earth History. Thirty Years of Astronomical Discovery With UKIRT, 2013, , 23-31.	0.3	2
149	Interplanetary Coronal Mass Ejection effects on thermospheric density as inferred from International Space Station orbital data. Advances in Space Research, 2017, 60, 2233-2251.	2.6	2
150	Wind Forecasts for Rocket and Balloon Launches at the Esrange Space Center Using the WRF Model. Weather and Forecasting, 2018, 33, 813-833.	1.4	2
151	Measuring Electrical Conductivity to Study the Formation of Brines Under Martian Conditions. Journal of Visualized Experiments, 2021, , .	0.3	2
152	Transient liquid water and water activity at Gale crater on Mars. , 0, .		2
153	SNC Meteorites: Atmosphere Implantation Ages and the Climatic Evolution of Mars. Thirty Years of Astronomical Discovery With UKIRT, 2013, , 165-172.	0.3	2
154	The Impact of the Spectral Radiation Environment on the Maximum Absorption Wavelengths of Human Vision and Other Species. Life, 2021, 11, 1337.	2.4	2
155	Life on Mars. New Scientist, 2012, 215, 28.	0.0	1
156	Liquid Water at Crater Gale, Mars. Journal of Astrobiology & Outreach, 2015, 03, .	0.1	1
157	Self-Sustainable Monitoring Station for Extreme Environments (S3ME2): Design and validation. , 2018, , .		1
158	Metabolt: An In-Situ Instrument to Characterize the Metabolic Activity of Microbial Soil Ecosystems Using Electrochemical and Gaseous Signatures. Sensors, 2020, 20, 4479.	3.8	1
159	Planetary Exploration; Mars on the Scope. Journal of Astrobiology & Outreach, 2015, 03, .	0.1	0
160	Evaluation of the Atmospheric Chemical Entropy Production of Mars. Entropy, 2015, 17, 5047-5062.	2.2	0
161	The Infinite Learning Chain. Flipped Professional Labs for Learning and Knowledge Co-Creation. Open Education Studies, 2019, 1, 151-176.	0.8	0
162	Subsurface robotic exploration for geomorphology, astrobiology and mining during MINAR6 campaign, Boulby Mine, UK: part II (Results and Discussion). International Journal of Astrobiology, 2021, 20, 93-108.	1.6	0

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163	FRISER-IRMIX Database: A Web-Based Support System with Implications in Planetary Mineralogical Studies, Ground Temperature Measurements and Astrobiology. Lecture Notes in Earth System Sciences, 2014, , 783-786.	0.6	0
164	The Fate of Freedom of a Space Exploration Mission Encountering Life and the Liberty of the â€œEncounteredâ€•Extra-Terrestrial Beings. Space and Society, 2015, , 127-137.	1.8	0
165	Brine-Induced Tribocorrosion Accelerates Wear on Stainless Steel: Implications for Mars Exploration. Advances in Astronomy, 2021, 2021, 1-11.	1.1	0
166	Self-Assembled Structures Formed in CO₂-Enriched Atmospheres: A Case-Study for Martian Biomimetic Forms. Astrobiology, 0, , .	3.0	0