Francisco Javier MartÃ-n-Torres

List of Publications by Year in descending order

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Francisco Javier

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777. | 6.0 | 687 |
| 2 | Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480. | 6.0 | 508 |
| 3 | Mars' Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. Science, 2014, 343, 1244797. | 6.0 | 475 |
| 4 | Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2015, 120, 495-514. | 1.5 | 375 |
| 5 | Mars methane detection and variability at Gale crater. Science, 2015, 347, 415-417. | 6.0 | 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. | 6.0 | 367 |
| 8 | X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932. | 6.0 | 327 |
| 9 | Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266. | 6.0 | 327 |
| 10 | Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267. | 6.0 | 323 |
| 11 | Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505. | 6.0 | 280 |
| 12 | Transient liquid water and water activity at Gale crater on Mars. Nature Geoscience, 2015, 8, 357-361. | 5.4 | 277 |
| 13 | UAVs as remote sensing platform in glaciology: Present applications and future prospects. Remote Sensing of Environment, 2016, 175, 196-204. | 4.6 | 271 |
| 14 | REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. Space Science Reviews, 2012, 170, 583-640. | 3.7 | 247 |
| 15 | Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734. | 6.0 | 246 |
| 16 | Habitability: A Review. Astrobiology, 2016, 16, 89-117. | 1.5 | 246 |
| 17 | lsotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263. | 6.0 | 241 |
| 18 | In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166. | 6.0 | 224 |

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| 19 | Background levels of methane in Mars' atmosphere show strong seasonal variations. Science, 2018, 360, 1093-1096. | 6.0 | 224 |
| 20 | Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670. | 6.0 | 215 |
| 21 | Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the <i>Curiosity</i> rover investigations at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4245-4250. | 3.3 | 172 |
| 22 | Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. Geophysical Research Letters, 2019, 46, 71-79. | 1.5 | 138 |
| 23 | The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463. | 6.0 | 134 |
| 24 | The natural thermostat of nitric oxide emission at 5.3 μm in the thermosphere observed during the solar storms of April 2002. Geophysical Research Letters, 2003, 30, . | 1.5 | 123 |
| 25 | The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1. | 3.7 | 119 |
| 26 | The imprint of atmospheric evolution in the D/H of Hesperian clay minerals on Mars. Science, 2015, 347, 412-414. | 6.0 | 113 |
| 27 | Curiosity's rover environmental monitoring station: Overview of the first 100 sols. Journal of Geophysical Research E: Planets, 2014, 119, 1680-1688. | 1.5 | 112 |
| 28 | No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520. | 13.7 | 111 |
| 29 | Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407. | 1.5 | 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. | 1.6 | 109 |
| 31 | Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525. | 13.7 | 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. | 6.0 | 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. | 1.2 | 101 |
| 36 | EChO. Experimental Astronomy, 2012, 34, 311-353. | 1.6 | 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€ŧerrestrial coupling evidenced by periodic behavior in geomagnetic indexes and the infrared energy budget of the thermosphere. Geophysical Research Letters, 2008, 35, . | 1.5 | 86 |
| 39 | Pressure observations by the Curiosity rover: Initial results. Journal of Geophysical Research E: Planets, 2014, 119, 82-92. | 1.5 | 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. | 1.5 | 80 |
| 41 | Mars Science Laboratory relative humidity observations: Initial results. Journal of Geophysical Research E: Planets, 2014, 119, 2132-2147. | 1.5 | 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. | 1.1 | 74 |
| 43 | LiDAR remote sensing of the cryosphere: Present applications and future prospects. Remote Sensing of Environment, 2016, 177, 125-143. | 4.6 | 73 |
| 44 | Seasonal Variations in Atmospheric Composition as Measured in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2019, 124, 3000-3024. | 1.5 | 71 |
| 45 | ChemCam passive reflectance spectroscopy of surface materials at the Curiosity landing site, Mars. Icarus, 2015, 249, 74-92. | 1.1 | 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. | 1.5 | 67 |
| 47 | Sounding of the Atmosphere using Broadband Emission Radiometry observations of daytime mesospheric O ₂ (¹ Δ) 1.27 <i>μ</i> m 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. | 1.1 | 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. | 1.1 | 64 |
| 50 | Infrared Spectrometer for ExoMars: A Mast-Mounted Instrument for the Rover. Astrobiology, 2017, 17, 542-564. | 1.5 | 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. | 1.6 | 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. | 1.1 | 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. | 1.5 | 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. | 1.1 | 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. | 0.7 | 50 |
| 60 | Aerosol optical depth as observed by the Mars Science Laboratory REMS UV photodiodes. Icarus, 2016, 280, 234-248. | 1.1 | 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. | 1.5 | 45 |
| 64 | Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791. | 1.6 | 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. | 1.5 | 44 |
| 66 | Comparison of Martian surface ionizing radiation measurements from MSLâ€RAD with Badhwarâ€O'Neill 2011/HZETRN model calculations. Journal of Geophysical Research E: Planets, 2014, 119, 1311-1321. | 1.5 | 42 |
| 67 | Martian slope streaks as plausible indicators of transient water activity. Scientific Reports, 2017, 7, 7074. | 1.6 | 42 |
| 68 | Martian Eolian Dust Probed by ChemCam. Geophysical Research Letters, 2018, 45, 10,968. | 1.5 | 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 – Curiosity's first 364 Sols on Mars. Icarus, 2015, 249, 108-128. | 1.1 | 37 |
| 71 | Aeolian transport of viable microbial life across the Atacama Desert, Chile: Implications for Mars. Scientific Reports, 2019, 9, 11024. | 1.6 | 36 |
| 72 | Heterogeneity in topographic control on velocities of Western Himalayan glaciers. Scientific Reports, 2018, 8, 12843. | 1.6 | 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. | 1.5 | 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. | 1.4 | 32 |
| 76 | Planetary boundary layer and circulation dynamics at Gale Crater, Mars. Icarus, 2018, 302, 537-559. | 1.1 | 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. | 1.6 | 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. | 1.1 | 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. | 1.1 | 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. | 1.1 | 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. | 1.2 | 28 |
| 83 | Are Slope Streaks Indicative of Globalâ€Scale Aqueous Processes on Contemporary Mars?. Reviews of Geophysics, 2019, 57, 48-77. | 9.0 | 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. | 4.6 | 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. | 1.5 | 23 |
| 86 | The Vertical Dust Profile Over Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2779-2792. | 1.5 | 22 |
| 87 | The first Martian year of cloud activity from Mars Science Laboratory (sol 0–800). Advances in Space Research, 2016, 57, 1223-1240. | 1.2 | 20 |
| 88 | Ladakh: diverse, high-altitude extreme environments for off-earth analogue and astrobiology research. International Journal of Astrobiology, 2020, 19, 78-98. | 0.9 | 20 |
| 89 | Decreases in atomic hydrogen over the summer pole: Evidence for dehydration from polar mesospheric clouds?. Geophysical Research Letters, 2008, 35, . | 1.5 | 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. | 0.9 | 19 |

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| 91 | Space Environmental Chamber for Planetary Studies. Sensors, 2020, 20, 3996. | 2.1 | 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. | 1.1 | 17 |
| 93 | Observations of the O(3P) fine structure line at 63 μm in the upper mesosphere and lower thermosphere. Journal of Geophysical Research, 2004, 109, . | 3.3 | 17 |
| 94 | Comparison of nighttime nitric oxide 5.3 <i>μ </i> m 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. | 1.6 | 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. | 0.9 | 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. | 1.0 | 17 |
| 98 | Analysis of wind-induced dynamic pressure fluctuations during one and a half Martian years at Gale Crater. Icarus, 2017, 288, 78-87. | 1.1 | 15 |
| 99 | Distribution and Morphologies of Transverse Aeolian Ridges in ExoMars 2020 Rover Landing Site. Remote Sensing, 2019, 11, 912. | 1.8 | 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. | 0.8 | 14 |
| 101 | UV/Vis+ photochemistry database: Structure, content and applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107056. | 1.1 | 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. | 0.7 | 13 |
| 104 | Correction to "Energy transport in the thermosphere during the solar storms of April 2002― 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. | 4.5 | 12 |
| 107 | Discovery of recurring slope lineae candidates in Mawrth Vallis, Mars. Scientific Reports, 2019, 9, 2040. | 1.6 | 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. | 1.8 | 12 |

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| 109 | Meso-microscale coupling for wind resource assessment using averaged atmospheric stability conditions. Meteorologische Zeitschrift, 2019, 28, 273-291. | 0.5 | 12 |
| 110 | A Hybrid Statistical-Dynamical Downscaling of Air Temperature over Scandinavia Using the WRF Model. Advances in Atmospheric Sciences, 2020, 37, 57-74. | 1.9 | 11 |
| 111 | The HABIT (HabitAbility: Brine Irradiation and Temperature) environmental instrument for the ExoMars 2022 Surface Platform. Planetary and Space Science, 2020, 190, 104968. | 0.9 | 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. | 0.6 | 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. | 1.7 | 9 |
| 114 | Spatial Variations in the Altitude of the CH ₄ Homopause at Jupiter's Mid-to-high Latitudes, as Constrained from IRTF-TEXES Spectra. Planetary Science Journal, 2020, 1, 85. | 1.5 | 9 |
| 115 | Should We Invest in Martian Brine Research to Reduce Mars Exploration Costs?. Astrobiology, 2017, 17, 3-7. | 1.5 | 8 |
| 116 | Chemobrionic Fabrication of Hierarchical Selfâ€Assembling Nanostructures of Copper Oxide and Hydroxide. ChemSystemsChem, 2019, 1, e1900011. | 1.1 | 8 |
| 117 | MARSWRF Prediction of Entry Descent Landing Profiles: Applications to Mars Exploration. Earth and Space Science, 2019, 6, 1440-1459. | 1.1 | 8 |
| 118 | Wind retrieval from temperature measurements from the Rover Environmental Monitoring Station/Mars Science Laboratory. Icarus, 2020, 346, 113785. | 1.1 | 8 |
| 119 | Adsorption of methane and CO 2 onto olivine surfaces in Martian dust conditions. Planetary and Space Science, 2018, 153, 163-171. | 0.9 | 7 |
| 120 | ATMO-vent: An adapted breathing atmosphere for COVID-19 patients. HardwareX, 2020, 8, e00145. | 1.1 | 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. | 1.5 | 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. | 3.7 | 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. | 1.3 | 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. | 1.0 | 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. | 2.9 | 5 |
| 128 | Martian Top of the Atmosphere 10–420 nm spectral irradiance database and forecast for solar cycle 24. Solar Energy, 2016, 134, 228-235. | 2.9 | 5 |
| 129 | UAV Imaging of a Martian Brine Analogue Environment in a Fluvio-Aeolian Setting. Remote Sensing, 2019, 11, 2104. | 1.8 | 5 |
| 130 | Weather Simulation Uncertainty Estimation Using Bayesian Hierarchical Models. Journal of Applied Meteorology and Climatology, 2019, 58, 585-603. | 0.6 | 5 |
| 131 | DFT study of the reduction reaction of calcium perchlorate on olivine surface: Implications to formation of Martian's regolith. Applied Surface Science, 2020, 512, 145634. | 3.1 | 5 |
| 132 | Implication of Impacts in the Young Earth Sun Paradox and the Evolution of Earth'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. | 1.1 | 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. | 0.9 | 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. | 0.9 | 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. | 1.1 | 4 |
| 138 | Implementing bioburden reduction and control on the deliquescent hydrogel of the HABIT/ExoMars 2022 instrument. Acta Astronautica, 2020, 173, 232-239. | 1.7 | 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. | 1.8 | 4 |
| 140 | PACKMAN – A portable instrument to investigate space weather. HardwareX, 2021, 9, e00169. | 1.1 | 4 |
| 141 | Experimental Investigation of the Atmosphere-Regolith Water Cycle on Present-Day Mars. Sensors, 2021, 21, 7421. | 2.1 | 4 |
| 142 | Development of a wind retrieval method for low-speed low-pressure flows for ExoMars. Applied Thermal Engineering, 2020, 180, 115752. | 3.0 | 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. | 1.3 | 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, , . | 1.5 | 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 μ 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. | 1.2 | 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. | 0.5 | 2 |
| 151 | Measuring Electrical Conductivity to Study the Formation of Brines Under Martian Conditions. Journal of Visualized Experiments, 2021, , . | 0.2 | 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. | 1.1 | 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. | 2.1 | 1 |
| 159 | Planetary Exploration; Mars on the Scope. Journal of Astrobiology & Outreach, 2015, 03, . | 0.1 | Ο |
| 160 | Evaluation of the Atmospheric Chemical Entropy Production of Mars. Entropy, 2015, 17, 5047-5062. | 1.1 | 0 |
| 161 | The Infinite Learning Chain. Flipped Professional Labs for Learning and Knowledge Co-Creation. Open Education Studies, 2019, 1, 151-176. | 0.4 | 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. | 0.9 | 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. | 0.5 | 0 |
| 164 | The Fate of Freedom of a Space Exploration Mission Encountering Life and the Liberty of the "Encountered―Extra-Terrestrial Beings. Space and Society, 2015, , 127-137. | 1.6 | 0 |
| 165 | Brine-Induced Tribocorrosion Accelerates Wear on Stainless Steel: Implications for Mars Exploration. Advances in Astronomy, 2021, 2021, 1-11. | 0.5 | 0 |
| 166 | Self-Assembled Structures Formed in CO ₂ -Enriched Atmospheres: A Case-Study for Martian Biomimetic Forms. Astrobiology, 0, , . | 1.5 | 0 |