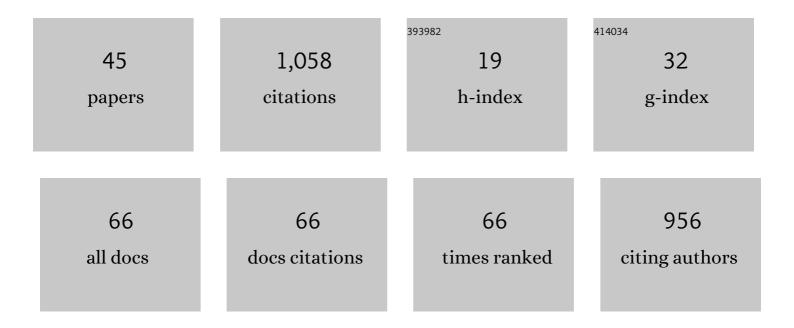
Giuliano Liuzzi

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|--|------|-----------|
| 1 | Explaining NOMAD D/H Observations by Cloudâ€Induced Fractionation of Water Vapor on Mars. Journal of Geophysical Research E: Planets, 2022, 127, . | 1.5 | 11 |
| 2 | Variations in Vertical CO/CO ₂ Profiles in the Martian Mesosphere and Lower Thermosphere Measured by the ExoMars TGO/NOMAD: Implications of Variations in Eddy Diffusion Coefficient. Geophysical Research Letters, 2022, 49, . | 1.5 | 7 |
| 3 | Planetâ€Wide Ozone Destruction in the Middle Atmosphere on Mars During Global Dust Storm. Geophysical Research Letters, 2022, 49, . | 1.5 | 7 |
| 4 | The Deuterium Isotopic Ratio of Water Released From the Martian Caps as Measured With TGO/NOMAD. Geophysical Research Letters, 2022, 49, . | 1.5 | 15 |
| 5 | Comprehensive investigation of Mars methane and organics with ExoMars/NOMAD. Icarus, 2021, 357, 114266. | 1.1 | 27 |
| 6 | Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. Science Advances, 2021, 7, . | 4.7 | 31 |
| 7 | Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. Geophysical Research Letters, 2021, 48, e2021GL092650. | 1.5 | 7 |
| 8 | Annual Appearance of Hydrogen Chloride on Mars and a Striking Similarity With the Water Vapor Vertical Distribution Observed by TGO/NOMAD. Geophysical Research Letters, 2021, 48, e2021GL092506. | 1.5 | 15 |
| 9 | The climatology of carbon monoxide on Mars as observed by NOMAD nadir-geometry observations. Icarus, 2021, 362, 114404. | 1.1 | 11 |
| 10 | No evidence of phosphine in the atmosphere of Venus from independent analyses. Nature Astronomy, 2021, 5, 631-635. | 4.2 | 50 |
| 11 | Martian water loss to space enhanced by regional dust storms. Nature Astronomy, 2021, 5, 1036-1042. | 4.2 | 40 |
| 12 | A Global and Seasonal Perspective of Martian Water Vapor From ExoMars/NOMAD. Journal of Geophysical Research E: Planets, 2021, 126, . | 1.5 | 8 |
| 13 | First Detection and Thermal Characterization of Terminator CO ₂ Ice Clouds With ExoMars/NOMAD. Geophysical Research Letters, 2021, 48, . | 1.5 | 12 |
| 14 | Explanation for the Increase in Highâ€Altitude Water on Mars Observed by NOMAD During the 2018 Global Dust Storm. Geophysical Research Letters, 2020, 47, e2019GL084354. | 1.5 | 62 |
| 15 | Strong Variability of Martian Water Ice Clouds During Dust Storms Revealed From ExoMars Trace Gas Orbiter/NOMAD. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006250. | 1.5 | 39 |
| 16 | Potential improvements in global carbon flux estimates from a network of laser heterodyne radiometer measurements of column carbon dioxide. Atmospheric Measurement Techniques, 2019, 12, 2579-2594. | 1.2 | 10 |
| 17 | No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520. | 13.7 | 111 |
| 18 | Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525. | 13.7 | 107 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Water Vapor Vertical Profiles on Mars in Dust Storms Observed by TGO/NOMAD. Journal of Geophysical Research E: Planets, 2019, 124, 3482-3497. | 1.5 | 88 |
| 20 | Methane on Mars: New insights into the sensitivity of CH4 with the NOMAD/ExoMars spectrometer through its first in-flight calibration. Icarus, 2019, 321, 671-690. | 1.1 | 32 |
| 21 | CO2 spectroscopy and forward/inverse radiative transfer modelling in the thermal band using IASI spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 65-83. | 1.1 | 17 |
| 22 | An application to Mediterranean Sea of the SEVIRI level 2 processor for surface parameters. , 2019, , . | | 0 |
| 23 | Determining the infrared radiative effects of Saharan dust: a radiative transfer modelling study based on vertically resolved measurements at Lampedusa. Atmospheric Chemistry and Physics, 2018, 18, 4377-4401. | 1.9 | 25 |
| 24 | Evaluation of Radiative Transfer Models With Clouds. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6142-6157. | 1.2 | 28 |
| 25 | Physical Retrieval of Land Surface Emissivity Spectra from Hyper-Spectral Infrared Observations and Validation with In Situ Measurements. Remote Sensing, 2018, 10, 976. | 1.8 | 29 |
| 26 | Four years of IASI CO2, CH4, N2O retrievals: validation with in situ observations from the Mauna Loa station. , 2018, , . | | 2 |
| 27 | Dimensionality reduction through random projections for application to the retrieval of atmospheric parameters from hyperspectral satellite sensors. , 2018, , . | | 0 |
| 28 | Assessment of IASI capability for retrieving carbonyl sulphide (OCS). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 197-208. | 1.1 | 16 |
| 29 | Using the full IASI spectrum for the physical retrieval of temperature, H2O, HDO, O3, minor and trace gases. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 30 | The very first multi-temporal and multi-spectral Level-2 SEVIRI processor for the simultaneous physical retrieval of surface temperature and emissivity. AIP Conference Proceedings, 2017, , . | 0.3 | 2 |
| 31 | All-sky radiative transfer calculations for IASI and IASI-NG: The σ-IASI-as code. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 32 | Consistency of dimensional distributions and refractive indices of desert dust measured over Lampedusa with IASI radiances. Atmospheric Measurement Techniques, 2017, 10, 599-615. | 1.2 | 21 |
| 33 | Demonstration of random projections applied to the retrieval problem of geophysical parameters from hyper-spectral infrared observations. Applied Optics, 2016, 55, 6576. | 2.1 | 17 |
| 34 | Physical inversion of the full IASI spectra: Assessment of atmospheric parameters retrievals, consistency of spectroscopy and forward modelling. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 128-157. | 1.1 | 51 |
| 35 | Hyper fast radiative transfer for the physical retrieval of surface parameters from SEVIRI observations. Journal of Physics: Conference Series, 2015, 633, 012059. | 0.3 | 3 |
| 36 | SEVIRI Cloud mask by Cumulative Discriminant Analysis. Journal of Physics: Conference Series, 2015, 633, 012056. | 0.3 | 1 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Revisiting the identification of methane on Mars using TES data. Astronomy and Astrophysics, 2015, 581, A136. | 2.1 | 10 |
| 38 | Infrared atmospheric sounder interferometer radiometric noise assessment from spectral residuals. Applied Optics, 2015, 54, 5924. | 2.1 | 20 |
| 39 | Simultaneous physical retrieval of Martian geophysical parameters using Thermal Emission Spectrometer spectra: the φ-MARS algorithm. Applied Optics, 2015, 54, 2334. | 0.9 | 3 |
| 40 | Kalman filter physical retrieval of surface emissivity and temperature from SEVIRI infrared channels: a validation and intercomparison study. Atmospheric Measurement Techniques, 2015, 8, 2981-2997. | 1.2 | 47 |
| 41 | Cloud mask via cumulative discriminant analysis applied to satellite infrared observations: scientific basis and initial evaluation. Atmospheric Measurement Techniques, 2014, 7, 3355-3372. | 1.2 | 33 |
| 42 | Validation of H_2O continuum absorption models in the wave number range 180–600 cm^â^'1 with atmospheric emitted spectral radiance measured at the Antarctica Dome-C site. Optics Express, 2014, 22, 16784. | 1.7 | 24 |
| 43 | Polarization in binary microlensing events. Physica Scripta, 2014, 89, 084001. | 1.2 | 8 |
| 44 | Search for Martian methane with TES data: development of a dedicated radiative transfer code: first results. Proceedings of SPIE, 2013, , . | 0.8 | 2 |
| 45 | Surface parameters from SEVIRI observations through a Kalman filter approach: application and evaluation of the scheme in Southern Italy. Tethys, 0, , . | 0.0 | 2 |