

Raffaella Noschese

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,932
citations

331670

21
h-index

254184

43
g-index

54
all docs

54
docs citations

54
times ranked

2215
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Stability of the Jupiter Southern Polar Vortices Inspected Through Vorticity Using Juno/JIRAM Data. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, . | 3.6 | 3 |
| 2 | Numerical simulations of radar echoes rule out basal CO2 ice deposits at Ultimi Scopuli, Mars. <i>Icarus</i> , 2022, 386, 115163. | 2.5 | 4 |
| 3 | Multiple subglacial water bodies below the south pole of Mars unveiled by new MARSIS data. <i>Nature Astronomy</i> , 2021, 5, 63-70. | 10.1 | 127 |
| 4 | SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11. | 8.1 | 26 |
| 5 | On the clouds and ammonia in Jupiter's upper troposphere from Juno JIRAM reflectivity observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4892-4907. | 4.4 | 5 |
| 6 | Oscillations and Stability of the Jupiter Polar Cyclones. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094235. | 4.0 | 11 |
| 7 | Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM's Band Imager. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029450. | 2.4 | 15 |
| 8 | Infrared observations of Io from Juno. <i>Icarus</i> , 2020, 341, 113607. | 2.5 | 23 |
| 9 | Juno/JIRAM: Planning and commanding activities. <i>Advances in Space Research</i> , 2020, 65, 598-615. | 2.6 | 5 |
| 10 | Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006096. | 3.6 | 8 |
| 11 | Mapping Io's Surface Composition With Juno/JIRAM. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006522. | 3.6 | 8 |
| 12 | Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006508. | 3.6 | 16 |
| 13 | Two-Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006098. | 3.6 | 24 |
| 14 | On the Spatial Distribution of Minor Species in Jupiter's Troposphere as Inferred From Juno JIRAM Data. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006206. | 3.6 | 14 |
| 15 | Radar detection of subglacial water under the south polar cap of Mars: Where are we now?., 2020, , . | | 0 |
| 16 | H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. <i>Icarus</i> , 2019, 329, 132-139. | 2.5 | 11 |
| 17 | Origin of the Extended Mars Radar Blackout of September 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4556-4568. | 2.4 | 27 |
| 18 | Serendipitous infrared observations of Europa by Juno/JIRAM. <i>Icarus</i> , 2019, 328, 1-13. | 2.5 | 15 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Liquid Water Detection under the South Polar Layered Deposits of Mars—a Probabilistic Inversion Approach. <i>Remote Sensing</i> , 2019, 11, 2445. | 4.0 | 7 |
| 20 | Clusters of cyclones encircling Jupiter's poles. <i>Nature</i> , 2018, 555, 216-219. | 27.8 | 90 |
| 21 | Improved estimation of Mars ionosphere total electron content. <i>Icarus</i> , 2018, 299, 396-410. | 2.5 | 14 |
| 22 | Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. <i>Astronomical Journal</i> , 2018, 156, 246. | 4.7 | 5 |
| 23 | Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. <i>Science</i> , 2018, 361, 774-777. | 12.6 | 53 |
| 24 | First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAM's Juno Images. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1511-1524. | 3.6 | 24 |
| 25 | Radar evidence of subglacial liquid water on Mars. <i>Science</i> , 2018, 361, 490-493. | 12.6 | 346 |
| 26 | 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 |
| 27 | JIRAM, the Jovian Infrared Auroral Mapper. <i>Space Science Reviews</i> , 2017, 213, 393-446. | 8.1 | 91 |
| 28 | Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. <i>Geophysical Research Letters</i> , 2017, 44, 5308-5316. | 4.0 | 30 |
| 29 | Preliminary results on the composition of Jupiter's troposphere in hot spot regions from the JIRAM/Juno instrument. <i>Geophysical Research Letters</i> , 2017, 44, 4615-4624. | 4.0 | 20 |
| 30 | Radar sounding of Lucus Planum, Mars, by MARSIS. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1405-1418. | 3.6 | 12 |
| 31 | Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H ₃ ⁺ emissions and comparison with the north aurora. <i>Geophysical Research Letters</i> , 2017, 44, 4633-4640. | 4.0 | 20 |
| 32 | Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. <i>Geophysical Research Letters</i> , 2017, 44, 4625-4632. | 4.0 | 18 |
| 33 | Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. <i>Geophysical Research Letters</i> , 2017, 44, 4660-4668. | 4.0 | 15 |
| 34 | Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. <i>Geophysical Research Letters</i> , 2017, 44, 4641-4648. | 4.0 | 13 |
| 35 | Observations of Phobos by the Mars Express radar MARSIS: Description of the detection techniques and preliminary results. <i>Advances in Space Research</i> , 2017, 60, 2289-2302. | 2.6 | 8 |
| 36 | Analysis of IR-bright regions of Jupiter in JIRAM-Juno data: Methods and validation of algorithms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 200-209. | 2.3 | 8 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | The Juno Radiation Monitoring (RM) Investigation. <i>Space Science Reviews</i> , 2017, 213, 507-545. | 8.1 | 29 |
| 38 | Processing tools refinement for the JIRAM arrival to Jupiter. <i>European Physical Journal Plus</i> , 2017, 132, 1. | 2.6 | 0 |
| 39 | Mars plasma system response to solar wind disturbances during solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6611-6634. | 2.4 | 24 |
| 40 | Solar cycle variations in the ionosphere of Mars as seen by multiple Mars Express data sets. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2547-2568. | 2.4 | 40 |
| 41 | Juno's Earth flyby: the Jovian infrared Auroral Mapper preliminary results. <i>Astrophysics and Space Science</i> , 2016, 361, 1. | 1.4 | 14 |
| 42 | Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2016, 354, 1563-1566. | 12.6 | 61 |
| 43 | Annual variations in the Martian bow shock location as observed by the Mars Express mission. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,474. | 2.4 | 44 |
| 44 | Exposed water ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016, 529, 368-372. | 27.8 | 104 |
| 45 | Total electron content in the Martian atmosphere: A critical assessment of the Mars Express MARSIS data sets. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2166-2182. | 2.4 | 32 |
| 46 | Mars Advanced Radar for Subsurface and Ionospheric Sounding (MARSIS) after nine years of operation: A summary. <i>Planetary and Space Science</i> , 2015, 112, 98-114. | 1.7 | 66 |
| 47 | The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. <i>Science</i> , 2015, 347, aaa0628. | 12.6 | 293 |
| 48 | Mars ionosphere total electron content analysis from MARSIS subsurface data. <i>Icarus</i> , 2013, 223, 423-437. | 2.5 | 49 |
| 49 | Radar subsurface sounding over the putative frozen sea in Cerberus Palus, Mars. , 2010, , . | | 0 |
| 50 | Permittivity estimation of layers beneath the northern polar layered deposits, Mars. <i>Geophysical Research Letters</i> , 2010, 37, . | 4.0 | 18 |
| 51 | MARSIS data inversion approach: Preliminary results. , 2008, , . | | 11 |
| 52 | MARSIS Data Inversion Approach. , 2007, , . | | 5 |