Raffaella Noschese

List of Publications by Year
in descending order

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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	Radar evidence of subglacial liquid water on Mars. Science, 2018, 361, 490-493.	12.6	346
2	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. Science, 2015, 347, aaa0628.	12.6	293
3	Multiple subglacial water bodies below the south pole of Mars unveiled by new MARSIS data. Nature Astronomy, 2021, 5, 63-70.	10.1	127
4	Exposed water ice on the nucleus of comet 67P/Churyumovâ€“Gerasimenko. Nature, 2016, 529, 368-372.	27.8	104
5	JIRAM, the Jovian Infrared Auroral Mapper. Space Science Reviews, 2017, 213, 393-446.	8.1	91
6	Clusters of cyclones encircling Jupiterâ€™s poles. Nature, 2018, 555, 216-219.	27.8	90
7	Mars Advanced Radar for Subsurface and Ionospheric Sounding (MARSIS) after nine years of operation: A summary. Planetary and Space Science, 2015, 112, 98-114.	1.7	66
8	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Science, 2016, 354, 1563-1566.	12.6	61
9	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
10	Mars ionosphere total electron content analysis from MARSIS subsurface data. Icarus, 2013, 223, 423-437.	2.5	49
11	Annual variations in the Martian bow shock location as observed by the Mars Express mission. Journal of Geophysical Research: Space Physics, 2016, 121, 11,474.	2.4	44
12	Solar cycle variations in the ionosphere of Mars as seen by multiple Mars Express data sets. Journal of Geophysical Research: Space Physics, 2016, 121, 2547-2568.	2.4	40
13	Total electron content in the Martian atmosphere: A critical assessment of the Mars Express MARSIS data sets. Journal of Geophysical Research: Space Physics, 2015, 120, 2166-2182.	2.4	32
14	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	4.0	30
15	The Juno Radiation Monitoring (RM) Investigation. Space Science Reviews, 2017, 213, 507-545.	8.1	29
16	Origin of the Extended Mars Radar Blackout of September 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 4556-4568.	2.4	27
17	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. Space Science Reviews, 2021, 217, 11.	8.1	26
18	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	3.6	24

#	Article	IF	Citations
19	Twoâ€Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	3.6	24
20	Mars plasma system response to solar wind disturbances during solar minimum. Journal of Geophysical Research: Space Physics, 2017, 122, 6611-6634.	2.4	24
21	Infrared observations of Io from Juno. Icarus, 2020, 341, 113607.	2.5	23
22	Preliminary results on the composition of Jupiter's troposphere in hot spot regions from the JIRAM/Juno instrument. Geophysical Research Letters, 2017, 44, 4615-4624.	4.0	20
23	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H‹sub›3‹/sub›‹sup›+‹/sup› emissions and comparison with the north aurora. Geophysical Research Letters, 2017, 44, 4633-4640.	4.0	20
24	Spatial, Seasonal, and Solar Cycle Variations of the Martian Total Electron Content (TEC): Is the TEC a Good Tracer for Atmospheric Cycles?. Journal of Geophysical Research E: Planets, 2018, 123, 1746-1759.	3.6	20
25	Permittivity estimation of layers beneath the northern polar layered deposits, Mars. Geophysical Research Letters, 2010, 37, .	4.0	18
26	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. Geophysical Research Letters, 2017, 44, 4625-4632.	4.0	18
27	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	3.6	16
28	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. Geophysical Research Letters, 2017, 44, 4660-4668.	4.0	15
29	Serendipitous infrared observations of Europa by Juno/JIRAM. Icarus, 2019, 328, 1-13.	2.5	15
30	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€Band Imager. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029450.	2.4	15
31	Junoâ€™s Earth flyby: the Jovian infrared Auroral Mapper preliminary results. Astrophysics and Space Science, 2016, 361, 1.	1.4	14
32	Improved estimation of Mars ionosphere total electron content. Icarus, 2018, 299, 396-410.	2.5	14
33	On the Spatial Distribution of Minor Species in Jupiter's Troposphere as Inferred From Juno JIRAM Data. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006206.	3.6	14
34	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. Geophysical Research Letters, 2017, 44, 4641-4648.	4.0	13
35	Radar sounding of Lucus Planum, Mars, by MARSIS. Journal of Geophysical Research E: Planets, 2017, 122, 1405-1418.	3.6	12
36	MARSIS data inversion approach: Preliminary results. , 2008, , .		11

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37	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. Icarus, 2019, 329, 132-139.	2.5	11
38	Oscillations and Stability of the Jupiter Polar Cyclones. Geophysical Research Letters, 2021, 48, e2021GL094235.	4.0	11
39	Observations of Phobos by the Mars Express radar MARSIS: Description of the detection techniques and preliminary results. Advances in Space Research, 2017, 60, 2289-2302.	2.6	8
40	Analysis of IR-bright regions of Jupiter in JIRAM-Juno data: Methods and validation of algorithms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 200-209.	2.3	8
41	Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006096.	3.6	8
42	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	3.6	8
43	Liquid Water Detection under the South Polar Layered Deposits of Marsâ€”a Probabilistic Inversion Approach. Remote Sensing, 2019, 11, 2445.	4.0	7
44	MARSIS Data Inversion Approach. , 2007, , .		5
45	Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. Astronomical Journal, 2018, 156, 246.	4.7	5
46	Juno/JIRAM: Planning and commanding activities. Advances in Space Research, 2020, 65, 598-615.	2.6	5
47	On the clouds and ammonia in Jupiterâ€™s upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	4.4	5
48	Numerical simulations of radar echoes rule out basal CO2 ice deposits at Ultimi Scopuli, Mars. Icarus, 2022, 386, 115163.	2.5	4
49	Stability of the Jupiter Southern Polar Vortices Inspected Through Vorticity Using Juno/JIRAM Data. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
50	Radar subsurface sounding over the putative frozen sea in Cerberus Palus, Mars. , 2010, , .		0
51	Processing tools refinement for the JIRAM arrival to Jupiter. European Physical Journal Plus, 2017, 132, 1.	2.6	0
52	Radar detection of subglacial water under the south polar cap of Mars: Where are we now?. , 2020, , .		0