

Andrea Cicchetti

List of Publications by Year in descending order

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61
papers

2,754
citations

304743

22
h-index

182427

51
g-index

62
all docs

62
docs citations

62
times ranked

2546
citing authors

#	ARTICLE	IF	CITATIONS
1	Radar evidence of subglacial liquid water on Mars. <i>Science</i> , 2018, 361, 490-493.	12.6	346
2	Subsurface Radar Sounding of the South Polar Layered Deposits of Mars. <i>Science</i> , 2007, 316, 92-95.	12.6	330
3	Radar Soundings of the Subsurface of Mars. <i>Science</i> , 2005, 310, 1925-1928.	12.6	327
4	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. <i>Science</i> , 2015, 347, aaa0628.	12.6	293
5	The Mars express MARSIS sounder instrument. <i>Planetary and Space Science</i> , 2009, 57, 1975-1986.	1.7	134
6	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
7	Exposed water ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016, 529, 368-372.	27.8	104
8	JIRAM, the Jovian Infrared Auroral Mapper. <i>Space Science Reviews</i> , 2017, 213, 393-446.	8.1	91
9	Clusters of cyclones encircling Jupiter's poles. <i>Nature</i> , 2018, 555, 216-219.	27.8	90
10	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
11	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2016, 354, 1563-1566.	12.6	61
12	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
13	Mars ionosphere total electron content analysis from MARSIS subsurface data. <i>Icarus</i> , 2013, 223, 423-437.	2.5	49
14	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
15	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
16	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
17	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
18	Observations of MeV electrons in Jupiter's innermost radiation belts and polar regions by the Juno radiation monitoring investigation: Perijoves 1 and 3. <i>Geophysical Research Letters</i> , 2017, 44, 4481-4488.	4.0	29

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19	The Juno Radiation Monitoring (RM) Investigation. <i>Space Science Reviews</i> , 2017, 213, 507-545.	8.1	29
20	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
21	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
22	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
23	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
24	Infrared observations of Io from Juno. <i>Icarus</i> , 2020, 341, 113607.	2.5	23
25	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
26	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
27	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
28	Permittivity estimation of layers beneath the northern polar layered deposits, Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	18
29	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
30	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
31	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
32	Serendipitous infrared observations of Europa by Juno/JIRAM. <i>Icarus</i> , 2019, 328, 1-13.	2.5	15
33	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
34	Juno's Earth flyby: the Jovian infrared Auroral Mapper preliminary results. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	14
35	Improved estimation of Mars ionosphere total electron content. <i>Icarus</i> , 2018, 299, 396-410.	2.5	14
36	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

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37	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
38	Radar sounding of Lucus Planum, Mars, by MARSIS. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1405-1418.	3.6	12
39	Radar sounder evidence of thick, porous sediments in Meridiani Planum and implications for ice-filled deposits on Mars. <i>Geophysical Research Letters</i> , 2017, 44, 9208-9215.	4.0	12
40	MARSIS data inversion approach: Preliminary results. , 2008, , .		11
41	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. <i>Icarus</i> , 2019, 329, 132-139.	2.5	11
42	Oscillations and Stability of the Jupiter Polar Cyclones. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094235.	4.0	11
43	Comparison between MARSIS & SHARAD results. , 2007, , .		9
44	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
45	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
46	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
47	Mapping Io's Surface Composition With Juno/JIRAM. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006522.	3.6	8
48	Mars ionosphere data inversion by MARSIS surface and subsurface signals analysis. , 2008, , .		7
49	Liquid Water Detection under the South Polar Layered Deposits of Marsâ€™a Probabilistic Inversion Approach. <i>Remote Sensing</i> , 2019, 11, 2445.	4.0	7
50	MARSIS Data Inversion Approach. , 2007, , .		5
51	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
52	Juno/JIRAM: Planning and commanding activities. <i>Advances in Space Research</i> , 2020, 65, 598-615.	2.6	5
53	On the clouds and ammonia in Jupiterâ€™s upper troposphere from Juno JIRAM reflectivity observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4892-4907.	4.4	5
54	Numerical simulations of radar echoes rule out basal CO2 ice deposits at Ultimi Scopuli, Mars. <i>Icarus</i> , 2022, 386, 115163.	2.5	4

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55	Sounding Mars with SHARAD & MARSIS. , 2007, , .		3
56	Numerical computation of radar echoes measured by MARSIS during phobos flybys. , 2009, , .		3
57	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
58	Subsurface Investigations by MARSIS in Mars Express Mission. , 2006, , .		0
59	Subsurface sounding in Northern hemisphere for Mars by MARSIS: Mars express mission. , 2008, , .		0
60	Radar subsurface sounding over the putative frozen sea in Cerberus Palus, Mars. , 2010, , .		0
61	Radar detection of subglacial water under the south polar cap of Mars: Where are we now?. , 2020, , .		0