

Alessandro Mura

List of Publications by Year in descending order

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122
papers

4,130
citations

136885

32
h-index

128225

60
g-index

153
all docs

153
docs citations

153
times ranked

2871
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Na and K Mercury and Moon Exospheres. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	12
2	Moist convection drives an upscale energy transfer at Jovian high latitudes. <i>Nature Physics</i> , 2022, 18, 357-361.	6.5	18
3	Effects of mercury surface temperature on the sodium abundance in its exosphere. <i>Planetary and Space Science</i> , 2022, 212, 105397.	0.9	3
4	A New Model of Jupiter's Magnetic Field at the Completion of Juno's Prime Mission. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	60
5	The Case for a New Frontiersâ€“Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. <i>Planetary Science Journal</i> , 2022, 3, 58.	1.5	12
6	A Comprehensive Set of Juno In Situ and Remote Sensing Observations of the Ganymede Auroral Footprint. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
7	The Exosphere as a Boundary: Origin and Evolution of Airless Bodies in the Inner Solar System and Beyond Including Planets with Silicate Atmospheres. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	6
8	Stability of the Jupiter Southern Polar Vortices Inspected Through Vorticity Using Juno/JIRAM Data. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	3
9	Exospheric Na distributions along the Mercury orbit with the THEMIS telescope. <i>Icarus</i> , 2021, 355, 114179.	1.1	10
10	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.	3.7	26
11	Jupiter. , 2021, , 108-122.		0
12	Are Dawn Storms Jupiter's Auroral Substorms?. <i>AGU Advances</i> , 2021, 2, e2020AV000275.	2.3	25
13	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.	1.6	5
14	Multiscale Features of the Near-Hermean Environment as Derived Through the Hilbert-Huang Transform. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	4
15	Oscillations and Stability of the Jupiter Polar Cyclones. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094235.	1.5	11
16	A Preliminary Study of Magnetosphereâ€“Ionosphereâ€“Thermosphere Coupling at Jupiter: Juno Multiâ€“Instrument Measurements and Modeling Tools. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029469.	0.8	11
17	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€“Band Imager. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029450.	0.8	15
18	Infrared observations of Io from Juno. <i>Icarus</i> , 2020, 341, 113607.	1.1	23

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19	Juno/JIRAM: Planning and commanding activities. <i>Advances in Space Research</i> , 2020, 65, 598-615.	1.2	5
20	Deep neural networks for analysis of Mercury's planetary exosphere. <i>Journal of Physics: Conference Series</i> , 2020, 1548, 012014.	0.3	0
21	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.	1.5	8
22	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	71
23	Mapping Io's Surface Composition With Juno/JIRAM. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006522.	1.5	8
24	Jupiter's Equatorial Plumes and Hot Spots: Spectral Mapping from Gemini/TEXES and Juno/MWR. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006399.	1.5	13
25	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006508.	1.5	16
26	Two-Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006098.	1.5	24
27	Ganymede's gravity, tides and rotational state from JUICE's 3GM experiment simulation. <i>Planetary and Space Science</i> , 2020, 187, 104902.	0.9	22
28	Preliminary estimation of the detection possibilities of Ganymede's water vapor environment with MAJIS. <i>Planetary and Space Science</i> , 2020, 191, 105004.	0.9	5
29	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.	1.5	14
30	Kinetic Simulations of the Jovian Energetic Ion Circulation around Ganymede. <i>Astrophysical Journal</i> , 2020, 900, 74.	1.6	20
31	JUNO/JIRAM's view of Jupiter's H ₃ ⁺ emissions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180406.	1.6	10
32	H ₃ ⁺ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. <i>Icarus</i> , 2019, 329, 132-139.	1.1	11
33	Serendipitous infrared observations of Europa by Juno/JIRAM. <i>Icarus</i> , 2019, 328, 1-13.	1.1	15
34	Clusters of cyclones encircling Jupiter's poles. <i>Nature</i> , 2018, 555, 216-219.	18.7	90
35	The contribution of the ARIEL space mission to the study of planetary formation. <i>Experimental Astronomy</i> , 2018, 46, 45-65.	1.6	19
36	Mercury sodium exospheric emission as a proxy for solar perturbations transit. <i>Scientific Reports</i> , 2018, 8, 928.	1.6	30

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37	Towards a Global Unified Model of Europa's Tenuous Atmosphere. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	36
38	Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. <i>Astronomical Journal</i> , 2018, 156, 246.	1.9	5
39	A chemical survey of exoplanets with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 135-209.	1.6	249
40	Concurrent ultraviolet and infrared observations of the north Jovian aurora during Juno's first perijove. <i>Icarus</i> , 2018, 312, 145-156.	1.1	18
41	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. <i>Science</i> , 2018, 361, 774-777.	6.0	53
42	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.	1.5	24
43	JIRAM, the Jovian Infrared Auroral Mapper. <i>Space Science Reviews</i> , 2017, 213, 393-446.	3.7	91
44	Investigation of the possible effects of comet Encke's meteoroid stream on the Ca exosphere of Mercury. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1217-1226.	1.5	11
45	Multiple-wavelength sensing of Jupiter during the Juno mission's first perijove passage. <i>Geophysical Research Letters</i> , 2017, 44, 4607-4614.	1.5	14
46	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. <i>Science</i> , 2017, 356, 821-825.	6.0	229
47	Jupiter's magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. <i>Science</i> , 2017, 356, 826-832.	6.0	109
48	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. <i>Geophysical Research Letters</i> , 2017, 44, 5308-5316.	1.5	30
49	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.	1.5	20
50	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.	1.5	20
51	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.	1.5	18
52	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.	1.5	15
53	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.	1.5	29
54	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.	1.5	13

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55	Plasma and Fields Evaluation at the Chinese Seismo-Electromagnetic Satellite for Electric Field Detector Measurements. IEEE Access, 2017, 5, 3824-3833.	2.6	9
56	Electric field computation analysis for the Electric Field Detector (EFD) on board the China Seismic-Electromagnetic Satellite (CSES). Advances in Space Research, 2017, 60, 2206-2216.	1.2	6
57	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.	1.1	8
58	The Juno Radiation Monitoring (RM) Investigation. Space Science Reviews, 2017, 213, 507-545.	3.7	29
59	Short-term observations of double-peaked Na emission from Mercury's exosphere. Geophysical Research Letters, 2017, 44, 2970-2977.	1.5	17
60	The Juno Radiation Monitoring (RM) Investigation. , 2017, , 385-423.		0
61	Mapping of hydrocarbons and H ₃ ⁺ emissions at Jupiter's north pole using Galileo/NIMS data. Geophysical Research Letters, 2016, 43, 11,558.	1.5	7
62	Juno's Earth flyby: the Jovian infrared Auroral Mapper preliminary results. Astrophysics and Space Science, 2016, 361, 1.	0.5	14
63	Analytical model of Europa's O ₂ exosphere. Planetary and Space Science, 2016, 130, 3-13.	0.9	9
64	3D-modeling of Mercury's solar wind sputtered surface-exosphere environment. Planetary and Space Science, 2015, 115, 90-101.	0.9	36
65	The H ₂ O and O ₂ exospheres of Ganymede: The result of a complex interaction between the jovian magnetospheric ions and the icy moon. Icarus, 2015, 245, 306-319.	1.1	52
66	The influence of space environment on the evolution of Mercury. Icarus, 2014, 239, 281-290.	1.1	12
67	ELENA microchannel plate detector: absolute detection efficiency for low energy neutral atoms. Optical Engineering, 2013, 52, 051206.	0.5	4
68	Exospheric O ₂ densities at Europa during different orbital phases. Planetary and Space Science, 2013, 88, 42-52.	0.9	40
69	Energetic neutral particles detection in the environment of Jupiter's icy moons: Ganymede's and Europa's neutral imaging experiment (GENIE). Planetary and Space Science, 2013, 88, 53-63.	0.9	6
70	Dynamical evolution of sodium anisotropies in the exosphere of Mercury. Planetary and Space Science, 2013, 82-83, 1-10.	0.9	22
71	ELENA MCP detector: absolute detection efficiency for low-energy neutral atoms. Proceedings of SPIE, 2012, , .	0.8	2
72	The role of sputtering and radiolysis in the generation of Europa exosphere. Icarus, 2012, 218, 956-966.	1.1	54

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73	Loss rates and time scales for sodium at Mercury. <i>Planetary and Space Science</i> , 2012, 63-64, 2-7.	0.9	15
74	Observing planets and small bodies in sputtered high-energy atom fluxes. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	7
75	Constraints on the exosphere of CoRoT-7b. <i>Astronomy and Astrophysics</i> , 2011, 525, A24.	2.1	28
76	Exosphere generation of the Moon investigated through a high-energy neutral detector. <i>Experimental Astronomy</i> , 2011, 32, 37-49.	1.6	2
77	Exospheres and Energetic Neutral Atoms of Mars, Venus and Titan. <i>Space Science Reviews</i> , 2011, 162, 213-266.	3.7	25
78	Comet-like tail-formation of exospheres of hot rocky exoplanets: Possible implications for CoRoT-7b. <i>Icarus</i> , 2011, 211, 1-9.	1.1	69
79	A nanotechnology application for low energy neutral atom detection with high angular resolution for the BepiColombo mission to Mercury. <i>Microelectronic Engineering</i> , 2011, 88, 2330-2333.	1.1	6
80	Report to cross sections related to plasma-planetary atmosphere interaction processes. <i>Planetary and Space Science</i> , 2011, 59, 801-809.	0.9	3
81	Exospheres and Energetic Neutral Atoms of Mars, Venus and Titan. <i>Space Sciences Series of ISSI</i> , 2011, , 213-266.	0.0	0
82	Exoplanet discoveries with the CoRoT space observatory. <i>Solar System Research</i> , 2010, 44, 520-526.	0.3	4
83	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. <i>Planetary and Space Science</i> , 2010, 58, 40-60.	0.9	43
84	Neutral particle release from Europa's surface. <i>Icarus</i> , 2010, 210, 385-395.	1.1	42
85	Venusian bow shock as seen by the ASPERA-4 ion instrument on Venus Express. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
86	Low energy high angular resolution neutral atom detection by means of micro-shuttering techniques: the BepiColombo SERENA-ELENA sensor. , 2009, , .		7
87	Coordinated Study on Solar Wind Turbulence During the Venus-Express, ACE and Ulysses Alignment of August 2007. <i>Earth, Moon and Planets</i> , 2009, 104, 101-104.	0.3	23
88	The sodium exosphere of Mercury: Comparison between observations during Mercury's transit and model results. <i>Icarus</i> , 2009, 200, 1-11.	1.1	80
89	Statistical analysis of the observations of the MEX/ASPERA-3 NPI in the shadow. <i>Planetary and Space Science</i> , 2009, 57, 1000-1007.	0.9	7
90	Space weathering on near-Earth objects investigated by neutral-particle detection. <i>Planetary and Space Science</i> , 2009, 57, 384-392.	0.9	6

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91	PROSPECTS OF SOLAR SYSTEM ENVIRONMENT OBSERVATIONS BY MEANS OF ENA DETECTION. , 2009, , 263-291.		1
92	Location of the bow shock and ion composition boundaries at Venus's initial determinations from Venus Express ASPERA-4. Planetary and Space Science, 2008, 56, 780-784.	0.9	64
93	The Venusian induced magnetosphere: A case study of plasma and magnetic field measurements on the Venus Express mission. Planetary and Space Science, 2008, 56, 796-801.	0.9	22
94	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. Planetary and Space Science, 2008, 56, 873-880.	0.9	102
95	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. Planetary and Space Science, 2008, 56, 802-806.	0.9	48
96	First observation of energetic neutral atoms in the Venus environment. Planetary and Space Science, 2008, 56, 807-811.	0.9	19
97	Comparative analysis of Venus and Mars magnetotails. Planetary and Space Science, 2008, 56, 812-817.	0.9	48
98	ENA detection in the dayside of Mars: ASPERA-3 NPD statistical study. Planetary and Space Science, 2008, 56, 840-845.	0.9	18
99	On the impact of multiply charged heavy solar wind ions on the surface of Mercury, the Moon and Ceres. Planetary and Space Science, 2008, 56, 1506-1516.	0.9	27
100	Processes that Promote and Deplete the Exosphere of Mercury. Space Sciences Series of ISSI, 2008, , 251-327.	0.0	2
101	Numerical simulations of coronal hole-associated neutral solar wind as expected at the Solar Orbiter position. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	3
102	The contribution of impulsive meteoritic impact vapourization to the Hermean exosphere. Planetary and Space Science, 2007, 55, 1541-1556.	0.9	48
103	Numerical and analytical model of Mercury's exosphere: Dependence on surface and external conditions. Planetary and Space Science, 2007, 55, 1569-1583.	0.9	40
104	Modelling Mercury's magnetosphere and plasma entry through the dayside magnetopause. Planetary and Space Science, 2007, 55, 1557-1568.	0.9	29
105	The Analyser of Space Plasmas and Energetic Atoms (ASPERA-4) for the Venus Express mission. Planetary and Space Science, 2007, 55, 1772-1792.	0.9	214
106	The loss of ions from Venus through the plasma wake. Nature, 2007, 450, 650-653.	13.7	168
107	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. Space Science Reviews, 2007, 126, 113-164.	3.7	241
108	Processes that Promote and Deplete the Exosphere of Mercury. Space Science Reviews, 2007, 132, 433-509.	3.7	121

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109	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. , 2007, , 113-164.		2
110	Geomagnetic activity dependence of the inner magnetospheric proton distribution: An empirical approach for the 21 st April 2001 storm. Journal of Geophysical Research, 2006, 111, .	3.3	4
111	Neutral atom imaging at Mercury. Planetary and Space Science, 2006, 54, 144-152.	0.9	15
112	NEUTRAL ATOM EMISSION FROM MERCURY. , 2006, , 37-50.		3
113	THE DAYSIDE MAGNETOSPHERE OF MERCURY. , 2006, , 29-36.		0
114	Dayside H ⁺ circulation at Mercury and neutral particle emission. Icarus, 2005, 175, 305-319.	1.1	39
115	Surface-Exosphere-Magnetosphere System Of Mercury. Space Science Reviews, 2005, 117, 397-443.	3.7	76
116	Solar Wind-Induced Atmospheric Erosion at Mars: First Results from ASPERA-3 on Mars Express. Science, 2004, 305, 1933-1936.	6.0	204
117	Modeling the time-evolving plasma in the inner magnetosphere: An empirical approach. Journal of Geophysical Research, 2004, 109, .	3.3	7
118	Mapping of the cusp plasma precipitation on the surface of Mercury. Icarus, 2003, 166, 229-237.	1.1	83
119	Empirical model of proton fluxes in the equatorial inner magnetosphere: 2. Properties and applications. Journal of Geophysical Research, 2003, 108, .	3.3	17
120	A quantitative model of the planetary Na ⁺ contribution to Mercury's magnetosphere. Annales Geophysicae, 2003, 21, 1723-1736.	0.6	106
121	Energetic neutral atoms at Mars 2. Imaging of the solar wind-Phobos interaction. Journal of Geophysical Research, 2002, 107, SSH 5-1.	3.3	23
122	Empirical Model of the Inner Magnetosphere H ⁺ Pitch Angle Distributions. Geophysical Monograph Series, 0, , 283-291.	0.1	7