

Alessandro Mura

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4575016/publications.pdf>

Version: 2024-02-01

122
papers

4,130
citations

136740

32
h-index

128067

60
g-index

153
all docs

153
docs citations

153
times ranked

2871
citing authors

#	ARTICLE	IF	CITATIONS
1	A chemical survey of exoplanets with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 135-209.	1.6	249
2	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. <i>Space Science Reviews</i> , 2007, 126, 113-164.	3.7	241
3	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
4	The Analyser of Space Plasmas and Energetic Atoms (ASPERA-4) for the Venus Express mission. <i>Planetary and Space Science</i> , 2007, 55, 1772-1792.	0.9	214
5	Solar Wind-Induced Atmospheric Erosion at Mars: First Results from ASPERA-3 on Mars Express. <i>Science</i> , 2004, 305, 1933-1936.	6.0	204
6	The loss of ions from Venus through the plasma wake. <i>Nature</i> , 2007, 450, 650-653.	13.7	168
7	Processes that Promote and Deplete the Exosphere of Mercury. <i>Space Science Reviews</i> , 2007, 132, 433-509.	3.7	121
8	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
9	A quantitative model of the planetary Na ⁺ contribution to Mercury's magnetosphere. <i>Annales Geophysicae</i> , 2003, 21, 1723-1736.	0.6	106
10	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. <i>Planetary and Space Science</i> , 2008, 56, 873-880.	0.9	102
11	JIRAM, the Jovian Infrared Auroral Mapper. <i>Space Science Reviews</i> , 2017, 213, 393-446.	3.7	91
12	Clusters of cyclones encircling Jupiter's poles. <i>Nature</i> , 2018, 555, 216-219.	13.7	90
13	Mapping of the cusp plasma precipitation on the surface of Mercury. <i>Icarus</i> , 2003, 166, 229-237.	1.1	83
14	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
15	Surface-Exosphere-Magnetosphere System Of Mercury. <i>Space Science Reviews</i> , 2005, 117, 397-443.	3.7	76
16	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	71
17	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
18	Location of the bow shock and ion composition boundaries at Venus's initial determinations from Venus Express ASPERA-4. <i>Planetary and Space Science</i> , 2008, 56, 780-784.	0.9	64

#	ARTICLE	IF	CITATIONS
19	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
20	The role of sputtering and radiolysis in the generation of Europa exosphere. <i>Icarus</i> , 2012, 218, 956-966.	1.1	54
21	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
22	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. <i>Icarus</i> , 2015, 245, 306-319.	1.1	52
23	The contribution of impulsive meteoritic impact vapourization to the Hermean exosphere. <i>Planetary and Space Science</i> , 2007, 55, 1541-1556.	0.9	48
24	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. <i>Planetary and Space Science</i> , 2008, 56, 802-806.	0.9	48
25	Comparative analysis of Venus and Mars magnetotails. <i>Planetary and Space Science</i> , 2008, 56, 812-817.	0.9	48
26	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. <i>Planetary and Space Science</i> , 2010, 58, 40-60.	0.9	43
27	Neutral particle release from Europa's surface. <i>Icarus</i> , 2010, 210, 385-395.	1.1	42
28	Numerical and analytical model of Mercury's exosphere: Dependence on surface and external conditions. <i>Planetary and Space Science</i> , 2007, 55, 1569-1583.	0.9	40
29	Exospheric O ₂ densities at Europa during different orbital phases. <i>Planetary and Space Science</i> , 2013, 88, 42-52.	0.9	40
30	Dayside H ⁺ circulation at Mercury and neutral particle emission. <i>Icarus</i> , 2005, 175, 305-319.	1.1	39
31	3D-modeling of Mercury's solar wind sputtered surface-exosphere environment. <i>Planetary and Space Science</i> , 2015, 115, 90-101.	0.9	36
32	Towards a Global Unified Model of Europa's Tenuous Atmosphere. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	36
33	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
34	Mercury sodium exospheric emission as a proxy for solar perturbations transit. <i>Scientific Reports</i> , 2018, 8, 928.	1.6	30
35	Modelling Mercury's magnetosphere and plasma entry through the dayside magnetopause. <i>Planetary and Space Science</i> , 2007, 55, 1557-1568.	0.9	29
36	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

#	ARTICLE	IF	CITATIONS
37	The Juno Radiation Monitoring (RM) Investigation. <i>Space Science Reviews</i> , 2017, 213, 507-545.	3.7	29
38	Constraints on the exosphere of CoRoT-7b. <i>Astronomy and Astrophysics</i> , 2011, 525, A24.	2.1	28
39	On the impact of multiply charged heavy solar wind ions on the surface of Mercury, the Moon and Ceres. <i>Planetary and Space Science</i> , 2008, 56, 1506-1516.	0.9	27
40	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.	3.7	26
41	Exospheres and Energetic Neutral Atoms of Mars, Venus and Titan. <i>Space Science Reviews</i> , 2011, 162, 213-266.	3.7	25
42	Are Dawn Storms Jupiter's Auroral Substorms?. <i>AGU Advances</i> , 2021, 2, e2020AV000275.	2.3	25
43	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
44	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
45	Energetic neutral atoms at Mars 2. Imaging of the solar wind-Phobos interaction. <i>Journal of Geophysical Research</i> , 2002, 107, SSH 5-1.	3.3	23
46	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
47	Infrared observations of Io from Juno. <i>Icarus</i> , 2020, 341, 113607.	1.1	23
48	The Venusian induced magnetosphere: A case study of plasma and magnetic field measurements on the Venus Express mission. <i>Planetary and Space Science</i> , 2008, 56, 796-801.	0.9	22
49	Dynamical evolution of sodium anisotropies in the exosphere of Mercury. <i>Planetary and Space Science</i> , 2013, 82-83, 1-10.	0.9	22
50	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
51	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
52	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
53	Kinetic Simulations of the Jovian Energetic Ion Circulation around Ganymede. <i>Astrophysical Journal</i> , 2020, 900, 74.	1.6	20
54	First observation of energetic neutral atoms in the Venus environment. <i>Planetary and Space Science</i> , 2008, 56, 807-811.	0.9	19

#	ARTICLE	IF	CITATIONS
55	The contribution of the ARIEL space mission to the study of planetary formation. <i>Experimental Astronomy</i> , 2018, 46, 45-65.	1.6	19
56	ENA detection in the dayside of Mars: ASPERA-3 NPD statistical study. <i>Planetary and Space Science</i> , 2008, 56, 840-845.	0.9	18
57	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
58	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
59	Moist convection drives an upscale energy transfer at Jovian high latitudes. <i>Nature Physics</i> , 2022, 18, 357-361.	6.5	18
60	Empirical model of proton fluxes in the equatorial inner magnetosphere: 2. Properties and applications. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	17
61	Short-term observations of double-peaked Na emission from Mercury's exosphere. <i>Geophysical Research Letters</i> , 2017, 44, 2970-2977.	1.5	17
62	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
63	Neutral atom imaging at Mercury. <i>Planetary and Space Science</i> , 2006, 54, 144-152.	0.9	15
64	Loss rates and time scales for sodium at Mercury. <i>Planetary and Space Science</i> , 2012, 63-64, 2-7.	0.9	15
65	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
66	Serendipitous infrared observations of Europa by Juno/JIRAM. <i>Icarus</i> , 2019, 328, 1-13.	1.1	15
67	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM L&B-Band Imager. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029450.	0.8	15
68	Juno's Earth flyby: the Jovian infrared Auroral Mapper preliminary results. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	0.5	14
69	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
70	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
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	The influence of space environment on the evolution of Mercury. <i>Icarus</i> , 2014, 239, 281-290.	1.1	12
74	Comparative Na and K Mercury and Moon Exospheres. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	12
75	The Case for a New Frontiersâ€œClass 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
76	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
77	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. <i>Icarus</i> , 2019, 329, 132-139.	1.1	11
78	Oscillations and Stability of the Jupiter Polar Cyclones. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094235.	1.5	11
79	A Preliminary Study of Magnetosphereâ€œIonosphereâ€œThermosphere Coupling at Jupiter: Juno Multiâ€œInstrument Measurements and Modeling Tools. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029469.	0.8	11
80	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
81	Exospheric Na distributions along the Mercury orbit with the THEMIS telescope. <i>Icarus</i> , 2021, 355, 114179.	1.1	10
82	Venusian bow shock as seen by the ASPERAâ€œ4 ion instrument on Venus Express. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
83	Analytical model of Europaâ€œs O2 exosphere. <i>Planetary and Space Science</i> , 2016, 130, 3-13.	0.9	9
84	Plasma and Fields Evaluation at the Chinese Seismo-Electromagnetic Satellite for Electric Field Detector Measurements. <i>IEEE Access</i> , 2017, 5, 3824-3833.	2.6	9
85	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.	1.1	8
86	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
87	Mapping Io's Surface Composition With Juno/JIRAM. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006522.	1.5	8
88	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
89	Modeling the time-evolving plasma in the inner magnetosphere: An empirical approach. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	7
90	Empirical Model of the Inner Magnetosphere H ⁺ Pitch Angle Distributions. <i>Geophysical Monograph Series</i> , 0, , 283-291.	0.1	7

#	ARTICLE	IF	CITATIONS
91	Low energy high angular resolution neutral atom detection by means of micro-shuttering techniques: the BepiColombo SERENA•ELENA sensor. , 2009, , .		7
92	Statistical analysis of the observations of the MEX/ASPERA-3 NPI in the shadow. Planetary and Space Science, 2009, 57, 1000-1007.	0.9	7
93	Observing planets and small bodies in sputtered high-energy atom fluxes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	7
94	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
95	Space weathering on near-Earth objects investigated by neutral-particle detection. Planetary and Space Science, 2009, 57, 384-392.	0.9	6
96	A nanotechnology application for low energy neutral atom detection with high angular resolution for the BepiColombo mission to Mercury. Microelectronic Engineering, 2011, 88, 2330-2333.	1.1	6
97	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
98	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
99	The Exosphere as a Boundary: Origin and Evolution of Airless Bodies in the Inner Solar System and Beyond Including Planets with Silicate Atmospheres. Space Science Reviews, 2022, 218, 1.	3.7	6
100	Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. Astronomical Journal, 2018, 156, 246.	1.9	5
101	Juno/JIRAM: Planning and commanding activities. Advances in Space Research, 2020, 65, 598-615.	1.2	5
102	Preliminary estimation of the detection possibilities of Ganymede•s water vapor environment with MAJIS. Planetary and Space Science, 2020, 191, 105004.	0.9	5
103	On the clouds and ammonia in Jupiter•s upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	1.6	5
104	Geomagnetic activity dependence of the inner magnetospheric proton distribution: An empirical approach for the 21•25 April 2001 storm. Journal of Geophysical Research, 2006, 111, .	3.3	4
105	Exoplanet discoveries with the CoRoT space observatory. Solar System Research, 2010, 44, 520-526.	0.3	4
106	ELENA microchannel plate detector: absolute detection efficiency for low energy neutral atoms. Optical Engineering, 2013, 52, 051206.	0.5	4
107	Multiscale Features of the Near-Hermean Environment as Derived Through the Hilbert-Huang Transform. Frontiers in Physics, 2021, 9, .	1.0	4
108	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

#	ARTICLE	IF	CITATIONS
109	Report to cross sections related to plasmaâ€™ planetary atmosphere interaction processes. Planetary and Space Science, 2011, 59, 801-809.	0.9	3
110	NEUTRAL ATOM EMISSION FROM MERCURY. , 2006, , 37-50.		3
111	Effects of mercury surface temperature on the sodium abundance in its exosphere. Planetary and Space Science, 2022, 212, 105397.	0.9	3
112	Stability of the Jupiter Southern Polar Vortices Inspected Through Vorticity Using Juno/JIRAM Data. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	3
113	Exosphere generation of the Moon investigated through a high-energy neutral detector. Experimental Astronomy, 2011, 32, 37-49.	1.6	2
114	ELENA MCP detector: absolute detection efficiency for low-energy neutral atoms. Proceedings of SPIE, 2012, , .	0.8	2
115	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. , 2007, , 113-164.		2
116	Processes that Promote and Deplete the Exosphere of Mercury. Space Sciences Series of ISSI, 2008, , 251-327.	0.0	2
117	PROSPECTS OF SOLAR SYSTEM ENVIRONMENT OBSERVATIONS BY MEANS OF ENA DETECTION. , 2009, , 263-291.		1
118	Deep neural networks for analysis of Mercuryâ€™s planetary exosphere. Journal of Physics: Conference Series, 2020, 1548, 012014.	0.3	0
119	Jupiter. , 2021, , 108-122.		0
120	THE DAYSIDE MAGNETOSPHERE OF MERCURY. , 2006, , 29-36.		0
121	Exospheres and Energetic Neutral Atoms of Mars, Venus and Titan. Space Sciences Series of ISSI, 2011, , 213-266.	0.0	0
122	The Juno Radiation Monitoring (RM) Investigation. , 2017, , 385-423.		0