

Anna Milillo

List of Publications by Year in descending order

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110
papers

3,228
citations

117571

34
h-index

168321

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139
all docs

139
docs citations

139
times ranked

2275
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Processes that Promote and Deplete the Exosphere of Mercury. <i>Space Science Reviews</i> , 2007, 132, 433-509.	3.7	121
4	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
5	Mapping of the cusp plasma precipitation on the surface of Mercury. <i>Icarus</i> , 2003, 166, 229-237.	1.1	83
6	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
7	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	1.6	77
8	Surface-Exosphere-Magnetosphere System Of Mercury. <i>Space Science Reviews</i> , 2005, 117, 397-443.	3.7	76
9	BepiColombo - Mission Overview and Science Goals. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	76
10	Ion loss on Mars caused by the Kelvin-Helmholtz instability. <i>Planetary and Space Science</i> , 2004, 52, 1157-1167.	0.9	71
11	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	71
12	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
13	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
14	Statistical distribution of the storm-time proton ring current: POLAR measurements. <i>Geophysical Research Letters</i> , 2002, 29, 30-1-30-4.	1.5	61
15	The variability of Mercury's exosphere by particle and radiation induced surface release processes. <i>Icarus</i> , 2003, 166, 238-247.	1.1	59
16	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. <i>Planetary and Space Science</i> , 2014, 104, 122-140.	0.9	56
17	SERENA: A suite of four instruments (ELENA, STROFIO, PICAM and MIPA) on board BepiColombo-MPO for particle detection in the Hermean environment. <i>Planetary and Space Science</i> , 2010, 58, 166-181.	0.9	55
18	The role of sputtering and radiolysis in the generation of Europa exosphere. <i>Icarus</i> , 2012, 218, 956-966.	1.1	54

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19	Mercury's Surface Composition and Character as Measured by Ground-Based Observations. <i>Space Science Reviews</i> , 2007, 132, 399-431.	3.7	52
20	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
21	Release of neutral sodium atoms from the surface of Mercury induced by meteoroid impacts. <i>Icarus</i> , 2005, 177, 122-128.	1.1	49
22	The contribution of impulsive meteoritic impact vapourization to the Hermean exosphere. <i>Planetary and Space Science</i> , 2007, 55, 1541-1556.	0.9	48
23	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. <i>Planetary and Space Science</i> , 2008, 56, 802-806.	0.9	48
24	Comparative analysis of Venus and Mars magnetotails. <i>Planetary and Space Science</i> , 2008, 56, 812-817.	0.9	48
25	Rationale for BepiColombo Studies of Mercury's Surface and Composition. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	46
26	Empirical model of proton fluxes in the equatorial inner magnetosphere: Development. <i>Journal of Geophysical Research</i> , 2001, 106, 25713-25729.	3.3	43
27	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. <i>Planetary and Space Science</i> , 2010, 58, 40-60.	0.9	43
28	PHEBUS: A double ultraviolet spectrometer to observe Mercury's exosphere. <i>Planetary and Space Science</i> , 2010, 58, 201-223.	0.9	42
29	Neutral particle release from Europa's surface. <i>Icarus</i> , 2010, 210, 385-395.	1.1	42
30	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
31	Exospheric O ₂ densities at Europa during different orbital phases. <i>Planetary and Space Science</i> , 2013, 88, 42-52.	0.9	40
32	Dayside H ⁺ circulation at Mercury and neutral particle emission. <i>Icarus</i> , 2005, 175, 305-319.	1.1	39
33	Plasma Sources in Planetary Magnetospheres: Mercury. <i>Space Science Reviews</i> , 2015, 192, 91-144.	3.7	39
34	Planetary space weather: scientific aspects and future perspectives. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A31.	1.1	38
35	Towards a Global Unified Model of Europa's Tenuous Atmosphere. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	36
36	Evolution of the proton ring current energy distribution during 21-25 April 2001 storm. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	32

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37	Mercury's surface and composition to be studied by BepiColombo. <i>Planetary and Space Science</i> , 2010, 58, 21-39.	0.9	31
38	THEMIS Na exosphere observations of Mercury and their correlation with in-situ magnetic field measurements by MESSENGER. <i>Planetary and Space Science</i> , 2015, 115, 102-109.	0.9	30
39	Mercury sodium exospheric emission as a proxy for solar perturbations transit. <i>Scientific Reports</i> , 2018, 8, 928.	1.6	30
40	Modelling Mercury's magnetosphere and plasma entry through the dayside magnetopause. <i>Planetary and Space Science</i> , 2007, 55, 1557-1568.	0.9	29
41	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
42	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.	3.7	26
43	On the Scaling Properties of Magnetic-field Fluctuations through the Inner Heliosphere. <i>Astrophysical Journal</i> , 2020, 902, 84.	1.6	26
44	Models of Solar Wind Structures and Their Interaction with the Earth's Space Environment. <i>Space Science Reviews</i> , 2009, 147, 233-270.	3.7	25
45	BepiColombo Science Investigations During Cruise and Flybys at the Earth, Venus and Mercury. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	25
46	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
47	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
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	Solar Intensity X-Ray and Particle Spectrometer SIXS: Instrument Design and First Results. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	20
52	Kinetic Simulations of the Jovian Energetic Ion Circulation around Ganymede. <i>Astrophysical Journal</i> , 2020, 900, 74.	1.6	20
53	Energetic neutral atoms in the outer magnetosphere: An upper flux limit obtained with the HEP-LD Spectrometer on board GEOTAIL. <i>Geophysical Research Letters</i> , 1997, 24, 111-114.	1.5	19
54	First observation of energetic neutral atoms in the Venus environment. <i>Planetary and Space Science</i> , 2008, 56, 807-811.	0.9	19

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55	Jupiter's Magnetosphere: Plasma Sources and Transport. <i>Space Science Reviews</i> , 2015, 192, 209-236.	3.7	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	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
58	Short-term observations of double-peaked Na emission from Mercury's exosphere. <i>Geophysical Research Letters</i> , 2017, 44, 2970-2977.	1.5	17
59	Remote sensing of Mercury's magnetospheric plasma environment via energetic neutral atoms imaging. <i>Planetary and Space Science</i> , 2001, 49, 1659-1668.	0.9	16
60	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. <i>Space Science Reviews</i> , 2015, 192, 27-89.	3.7	16
61	Low-altitude energetic neutral atoms imaging of the inner magnetosphere: A geometrical method to identify the energetic neutral atoms contributions from different magnetospheric regions. <i>Journal of Geophysical Research</i> , 1996, 101, 27123-27131.	3.3	15
62	Neutral atom imaging at Mercury. <i>Planetary and Space Science</i> , 2006, 54, 144-152.	0.9	15
63	Ring current ion flows and convection electric field as expected from observations by SAC-B/ISENA. <i>Geophysical Research Letters</i> , 1996, 23, 3285-3288.	1.5	14
64	Loss rates of Europa's tenuous atmosphere. <i>Planetary and Space Science</i> , 2016, 130, 14-23.	0.9	14
65	The influence of space environment on the evolution of Mercury. <i>Icarus</i> , 2014, 239, 281-290.	1.1	12
66	Comparative Na and K Mercury and Moon Exospheres. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	12
67	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
68	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. <i>Experimental Astronomy</i> , 2009, 23, 947-976.	1.6	10
69	Detection of a southern peak in Mercury's sodium exosphere with the TNG in 2005. <i>Icarus</i> , 2009, 201, 424-431.	1.1	10
70	Exospheric Na distributions along the Mercury orbit with the THEMIS telescope. <i>Icarus</i> , 2021, 355, 114179.	1.1	10
71	BepiColombo's Cruise Phase: Unique Opportunity for Synergistic Observations. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	10
72	Analytical model of Europa's O ₂ exosphere. <i>Planetary and Space Science</i> , 2016, 130, 3-13.	0.9	9

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73	Photoionization Loss of Mercury's Sodium Exosphere: Seasonal Observations by MESSENGER and the THEMIS Telescope. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092980.	1.5	9
74	The "Singular" Behavior of the Solar Wind Scaling Features during Parker Solar Probe's BepiColombo Radial Alignment. <i>Astrophysical Journal</i> , 2022, 926, 174.	1.6	9
75	Modeling the time-evolving plasma in the inner magnetosphere: An empirical approach. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	7
76	Empirical Model of the Inner Magnetosphere H ⁺ Pitch Angle Distributions. <i>Geophysical Monograph Series</i> , 0, , 283-291.	0.1	7
77	Low energy high angular resolution neutral atom detection by means of micro-shuttering techniques: the BepiColombo SERENA's ELENA sensor. , 2009, , .		7
78	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
79	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
80	MESSENGER Observations of Planetary Ion Enhancements at Mercury's Northern Magnetospheric Cusp During Flux Transfer Event Showers. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	7
81	Structure and dynamics of the proton energy density in the inner magnetosphere. <i>Advances in Space Research</i> , 2004, 33, 711-718.	1.2	6
82	Space weathering on near-Earth objects investigated by neutral-particle detection. <i>Planetary and Space Science</i> , 2009, 57, 384-392.	0.9	6
83	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
84	Energetic neutral particles detection in the environment of Jupiter's icy moons: Ganymede's and Europa's neutral imaging experiment (GENIE). <i>Planetary and Space Science</i> , 2013, 88, 53-63.	0.9	6
85	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
86	Geomagnetic activity dependence of the inner magnetospheric proton distribution: An empirical approach for the 21-25 April 2001 storm. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	4
87	ELENA microchannel plate detector: absolute detection efficiency for low energy neutral atoms. <i>Optical Engineering</i> , 2013, 52, 051206.	0.5	4
88	Multiscale Features of the Near-Hermean Environment as Derived Through the Hilbert-Huang Transform. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	4
89	Numerical simulations of coronal hole-associated neutral solar wind as expected at the Solar Orbiter position. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	3
90	Venus's induced magnetosphere during active solar wind conditions at BepiColombo's Venus 1 flyby. <i>Annales Geophysicae</i> , 2021, 39, 811-831.	0.6	3

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91	NEUTRAL ATOM EMISSION FROM MERCURY. , 2006, , 37-50.		3
92	Effects of mercury surface temperature on the sodium abundance in its exosphere. Planetary and Space Science, 2022, 212, 105397.	0.9	3
93	An empirical model of the ion distributions in the equatorial inner magnetosphere. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 1999, 24, 209-214.	0.2	2
94	Exosphere generation of the Moon investigated through a high-energy neutral detector. Experimental Astronomy, 2011, 32, 37-49.	1.6	2
95	ELENA MCP detector: absolute detection efficiency for low-energy neutral atoms. Proceedings of SPIE, 2012, , .	0.8	2
96	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. , 2007, , 113-164.		2
97	Processes that Promote and Deplete the Exosphere of Mercury. Space Sciences Series of ISSI, 2008, , 251-327.	0.0	2
98	SERENA: a Novel Instrument Package on board BepiColombo-MPO to study Neutral and Ionized Particles in the Hermean Environment. , 2009, , .		1
99	A MISSION CALLED SAPPORO. , 2006, , 241-253.		1
100	PROSPECTS OF SOLAR SYSTEM ENVIRONMENT OBSERVATIONS BY MEANS OF ENA DETECTION. , 2009, , 263-291.		1
101	Mercury's Surface Composition and Character as Measured by Ground-Based Observations. Space Sciences Series of ISSI, 2008, , 217-249.	0.0	1
102	Participation of women scientists in ESA solar system missions: a historical trend. Advances in Geosciences, 0, 53, 169-182.	12.0	1
103	Empirical modeling of the ring current. Acta Geophysica, 2009, 57, 171-184.	1.0	0
104	Solar wind interaction with the terrestrial planets. Planetary and Space Science, 2015, 115, 1-3.	0.9	0
105	Deep neural networks for analysis of Mercury's planetary exosphere. Journal of Physics: Conference Series, 2020, 1548, 012014.	0.3	0
106	THE DAYSIDE MAGNETOSPHERE OF MERCURY. , 2006, , 29-36.		0
107	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. Space Sciences Series of ISSI, 2016, , 27-89.	0.0	0
108	Jupiter's Magnetosphere: Plasma Sources and Transport. Space Sciences Series of ISSI, 2016, , 209-236.	0.0	0

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109	Plasma Sources in Planetary Magnetospheres: Mercury. Space Sciences Series of ISSI, 2016, , 91-144.	0.0	0
110	Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury. Astronomy and Astrophysics, 0, , .	2.1	0