

Stefano Massetti

List of Publications by Year in descending order

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54
papers

1,198
citations

361413

20
h-index

395702

33
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56
all docs

56
docs citations

56
times ranked

1049
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping of the cusp plasma precipitation on the surface of Mercury. <i>Icarus</i> , 2003, 166, 229-237.	2.5	83
2	The sodium exosphere of Mercury: Comparison between observations during Mercury's transit and model results. <i>Icarus</i> , 2009, 200, 1-11.	2.5	80
3	Surface-Exosphere-Magnetosphere System Of Mercury. <i>Space Science Reviews</i> , 2005, 117, 397-443.	8.1	76
4	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	71
5	The variability of Mercury's exosphere by particle and radiation induced surface release processes. <i>Icarus</i> , 2003, 166, 238-247.	2.5	59
6	The role of sputtering and radiolysis in the generation of Europa exosphere. <i>Icarus</i> , 2012, 218, 956-966.	2.5	54
7	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.	2.5	52
8	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. <i>Planetary and Space Science</i> , 2010, 58, 40-60.	1.7	43
9	Numerical and analytical model of Mercury's exosphere: Dependence on surface and external conditions. <i>Planetary and Space Science</i> , 2007, 55, 1569-1583.	1.7	40
10	Exospheric O ₂ densities at Europa during different orbital phases. <i>Planetary and Space Science</i> , 2013, 88, 42-52.	1.7	40
11	Dayside H ⁺ circulation at Mercury and neutral particle emission. <i>Icarus</i> , 2005, 175, 305-319.	2.5	39
12	Planetary space weather: scientific aspects and future perspectives. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A31.	3.3	38
13	Occurrence and average behavior of pulsating aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5606-5618.	2.4	36
14	Short-term variations of Mercury's Na exosphere observed with very high spectral resolution. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	34
15	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.	1.7	30
16	Modelling Mercury's magnetosphere and plasma entry through the dayside magnetopause. <i>Planetary and Space Science</i> , 2007, 55, 1557-1568.	1.7	29
17	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.	1.7	27
18	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.	8.1	26

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19	BepiColombo Science Investigations During Cruise and Flybys at the Earth, Venus and Mercury. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	25
20	Dynamical evolution of sodium anisotropies in the exosphere of Mercury. <i>Planetary and Space Science</i> , 2013, 82-83, 1-10.	1.7	22
21	Kinetic Simulations of the Jovian Energetic Ion Circulation around Ganymede. <i>Astrophysical Journal</i> , 2020, 900, 74.	4.5	20
22	ENA detection in the dayside of Mars: ASPERA-3 NPD statistical study. <i>Planetary and Space Science</i> , 2008, 56, 840-845.	1.7	18
23	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
24	Short-term observations of double-peaked Na emission from Mercury's exosphere. <i>Geophysical Research Letters</i> , 2017, 44, 2970-2977.	4.0	17
25	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM UV Band Imager. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029450.	2.4	15
26	Ground-level enhancements during solar cycle 23: results from SVIRCO, LOMNICKY STIT and LARC neutron monitors. <i>Advances in Space Research</i> , 2005, 35, 416-420.	2.6	14
27	Spacetime Modulation of Solar Neutrino Flux: 1970-1992. <i>Astrophysical Journal</i> , 1996, 472, 827-831.	4.5	14
28	Magnetosphere-Exosphere-Surface Coupling at Mercury. <i>Space Science Reviews</i> , 2007, 132, 551-573.	8.1	13
29	On the homestake neutrino data. <i>Solar Physics</i> , 1993, 148, 173-176.	2.5	12
30	The influence of space environment on the evolution of Mercury. <i>Icarus</i> , 2014, 239, 281-290.	2.5	12
31	Comparative Na and K Mercury and Moon Exospheres. <i>Space Science Reviews</i> , 2022, 218, 1.	8.1	12
32	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.	3.6	11
33	Electrodynamics of a split-transpolar aurora. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
34	Detection of a southern peak in Mercury's sodium exosphere with the TNG in 2005. <i>Icarus</i> , 2009, 201, 424-431.	2.5	10
35	Field-aligned currents of postnoon auroral arcs. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	10
36	Exospheric Na distributions along the Mercury orbit with the THEMIS telescope. <i>Icarus</i> , 2021, 355, 114179.	2.5	10

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37	Analytical model of Europa's O ₂ exosphere. <i>Planetary and Space Science</i> , 2016, 130, 3-13.	1.7	9
38	Low energy high angular resolution neutral atom detection by means of micro-shuttering techniques: the BepiColombo SERENA-ELENA sensor. , 2009, , .		7
39	Statistical analysis of the observations of the MEX/ASPERA-3 NPI in the shadow. <i>Planetary and Space Science</i> , 2009, 57, 1000-1007.	1.7	7
40	Space weathering on near-Earth objects investigated by neutral-particle detection. <i>Planetary and Space Science</i> , 2009, 57, 384-392.	1.7	6
41	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.	1.7	6
42	Antiparallel magnetic merging signatures during IMF <i>B</i> and <i>Y</i> longitudinal and latitudinal cusp aurora bifurcations. <i>Annales Geophysicae</i> , 2006, 24, 2299-2311.	1.6	5
43	Preliminary estimation of the detection possibilities of Ganymede's water vapor environment with MAJIS. <i>Planetary and Space Science</i> , 2020, 191, 105004.	1.7	5
44	Ground-based and satellite observations of high-latitude auroral activity in the dusk sector of the auroral oval. <i>Annales Geophysicae</i> , 2001, 19, 1683-1696.	1.6	5
45	Dayside magnetosphere-ionosphere coupling during IMF clock angle $\sim 490^\circ$: Longitudinal cusp bifurcation, quasi-periodic cusp-like auroras, and traveling convection vortices. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	4
46	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
47	Cosmic ray intensity for about five solar cycles. <i>Journal of Physics: Conference Series</i> , 2015, 632, 012065.	0.4	4
48	Multiscale Features of the Near-Hermean Environment as Derived Through the Hilbert-Huang Transform. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	4
49	Echo occurrence in the southern polar ionosphere for the SuperDARN Dome C East and Dome C North radars. <i>Polar Science</i> , 2021, 28, 100684.	1.2	3
50	Exosphere generation of the Moon investigated through a high-energy neutral detector. <i>Experimental Astronomy</i> , 2011, 32, 37-49.	3.7	2
51	Dayside pulsed aurora intensifications, observed by ITACA during constant interplanetary magnetic field $B_z \neq 0$ and $B_y = 0$. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 19-1.	3.3	1
52	PROSPECTS OF SOLAR SYSTEM ENVIRONMENT OBSERVATIONS BY MEANS OF ENA DETECTION. , 2009, , 263-291.		1
53	Deep neural networks for analysis of Mercury's planetary exosphere. <i>Journal of Physics: Conference Series</i> , 2020, 1548, 012014.	0.4	0
54	Magnetosphere-Exosphere-Surface Coupling at Mercury. <i>Space Sciences Series of ISSI</i> , 2008, , 369-391.	0.0	0