Christina Plainaki

List of Publications by Year
in descending order

97 papers	2,049 citations	236925 25 h-index	289244 40 g-index
119 all docs	119 docs citations	119 times ranked	1943 citing authors

#	Article	IF	Citations
1	Ice giant system exploration within ESAâ€™s Voyage 2050. Experimental Astronomy, 2022, 54, 1015-1025.	3.7	4
2	The in-situ exploration of Jupiterâ€™s radiation belts. Experimental Astronomy, 2022, 54, 745-789.	3.7	11
3	Saturnâ€™s icy satellites investigated by Cassini - VIMS. V. Spectrophotometry. Icarus, 2022, 375, 114803.	2.5	3
4	Moist convection drives an upscale energy transfer at Jovian high latitudes. Nature Physics, 2022, 18, 357-361.	16.7	18
5	On the Magnetosphereâ€Ionosphere Coupling During the May 2021 Geomagnetic Storm. Space Weather, 2022, 20, .	3.7	4
6	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
7	Exospheric Na distributions along the Mercury orbit with the THEMIS telescope. Icarus, 2021, 355, 114179.	2.5	10
8	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. Space Science Reviews, 2021, 217, 11.	8.1	26
9	BepiColombo Science Investigations During Cruise and Flybys at the Earth, Venus and Mercury. Space Science Reviews, 2021, 217, 1.	8.1	25
10	On the clouds and ammonia in Jupiterâ€™s upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	4.4	5
11	Multiscale Features of the Near-Hermean Environment as Derived Through the Hilbert-Huang Transform. Frontiers in Physics, 2021, 9, .	2.1	4
12	First light observations of the solar wind in the outer corona with the Metis coronagraph. Astronomy and Astrophysics, 2021, 656, A32.	5.1	32
13	Volatiles and Refractories in Surface-Bounded Exospheres in the Inner Solar System. Space Science Reviews, 2021, 217, 61.	8.1	12
14	Oscillations and Stability of the Jupiter Polar Cyclones. Geophysical Research Letters, 2021, 48, e2021GL094235.	4.0	11
15	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€Band Imager. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029450.	2.4	15
16	Cosmic-ray flux predictions and observations for and with Metis on board Solar Orbiter. Astronomy and Astrophysics, 2021, 656, A15.	5.1	6
17	Infrared observations of Io from Juno. Icarus, 2020, 341, 113607.	2.5	23
18	Juno/JIRAM: Planning and commanding activities. Advances in Space Research, 2020, 65, 598-615.	2.6	5

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19	Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006096.	3.6	8
20	Investigating Mercuryâ€™s Environment with the Two-Spacecraft BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	71
21	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	3.6	8
22	Investigating the foF2 variations at the Ionospheric Observatory of Rome during different solar cycles minimums and levels of geomagnetic activity. Journal of Space Weather and Space Climate, 2020, 10, 52.	3.3	2
23	Photometric modelling and VIS-IR albedo maps of Rhea from Cassini-VIMS. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 499, L62-L66.	3.3	3
24	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	3.6	16
25	Twoâ€Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	3.6	24
26	Ganymede's gravity, tides and rotational state from JUICE's 3GM experiment simulation. Planetary and Space Science, 2020, 187, 104902.	1.7	22
27	Preliminary estimation of the detection possibilities of Ganymedeâ€™s water vapor environment with MAJIS. Planetary and Space Science, 2020, 191, 105004.	1.7	5
28	Ice Giant Systems: The scientific potential of orbital missions to Uranus and Neptune. Planetary and Space Science, 2020, 191, 105030.	1.7	39
29	On the Spatial Distribution of Minor Species in Jupiter's Troposphere as Inferred From Juno JIRAM Data. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006206.	3.6	14
30	Current state and perspectives of Space Weather science in Italy. Journal of Space Weather and Space Climate, 2020, 10, 6.	3.3	18
31	The Solar Orbiter Science Activity Plan. Astronomy and Astrophysics, 2020, 642, A3.	5.1	67
32	Kinetic Simulations of the Jovian Energetic Ion Circulation around Ganymede. Astrophysical Journal, 2020, 900, 74.	4.5	20
33	Cassini-VIMS observations of Saturnâ€™s main rings: II. A spectrophotometric study by means of Monte Carlo ray-tracing and Hapkeâ€™s theory. Icarus, 2019, 317, 242-265.	2.5	17
34	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. Icarus, 2019, 329, 132-139.	2.5	11
35	Penetrating particle ANalyzer (PAN). Advances in Space Research, 2019, 63, 2672-2682.	2.6	13
36	Serendipitous infrared observations of Europa by Juno/JIRAM. Icarus, 2019, 328, 1-13.	2.5	15

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37	The Penetrating particle ANalyzer (PAN) instrument for measurements of low energy cosmic rays. , 2019, , .		1
38	Clusters of cyclones encircling Jupiterâ€™s poles. Nature, 2018, 555, 216-219.	27.8	90
39	Photometric Modeling and VISâ€IR Albedo Maps of Dione From Cassiniâ€VIMS. Geophysical Research Letters, 2018, 45, 2184-2192.	4.0	7
40	Mercury sodium exospheric emission as a proxy for solar perturbations transit. Scientific Reports, 2018, 8, 928.	3.3	30
41	Towards a Global Unified Model of Europaâ€™s Tenuous Atmosphere. Space Science Reviews, 2018, 214, 1.	8.1	36
42	Galactic cosmic ray spectral index: the case of Forbush decreases of March 2012. Astrophysics and Space Science, 2018, 363, 1.	1.4	18
43	Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. Astronomical Journal, 2018, 156, 246.	4.7	5
44	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
45	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	3.6	24
46	Photometric Modeling and VISâ€IR Albedo Maps of Tethys From Cassiniâ€VIMS. Geophysical Research Letters, 2018, 45, 6400-6407.	4.0	6
47	Investigation of the possible effects of comet Encke's meteoroid stream on the Ca exosphere of Mercury. Journal of Geophysical Research E: Planets, 2017, 122, 1217-1226.	3.6	11
48	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.	2.3	8
49	Water Ice Radiolytic O₂, H₂, and H₂O₂ Yields for Any Projectile Species, Energy, or Temperature: A Model for Icy Astrophysical Bodies. Journal of Geophysical Research E: Planets, 2017, 122, 1996-2012.	3.6	51
50	Shortâ€term observations of doubleâ€peaked Na emission from Mercury's exosphere. Geophysical Research Letters, 2017, 44, 2970-2977.	4.0	17
51	Solar energetic particle interactions with the Venusian atmosphere. Annales Geophysicae, 2016, 34, 595-608.	1.6	19
52	Latitudinal and longitudinal dependence of the cosmic ray diurnal anisotropy during 2001â€“2014. Annales Geophysicae, 2016, 34, 1053-1068.	1.6	21
53	Planetary space weather: scientific aspects and future perspectives. Journal of Space Weather and Space Climate, 2016, 6, A31.	3.3	38
54	Analytical model of Europaâ€™s O2 exosphere. Planetary and Space Science, 2016, 130, 3-13.	1.7	9

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55	Loss rates of Europa×3s tenuous atmosphere. Planetary and Space Science, 2016, 130, 14-23.	1.7	14
56	Estimation of the cosmic ray ionization in the Earth's atmosphere during GLE71. , 2016, , .		1
57	Jupiterâ€™s Magnetosphere: Plasma Sources and Transport. Space Sciences Series of ISSI, 2016, , 209-236.	0.0	0
58	THEMIS Na exosphere observations of Mercury and their correlation with in-situ magnetic field measurements by MESSENGER. Planetary and Space Science, 2015, 115, 102-109.	1.7	30
59	Derivation of relativistic SEP properties through neutron monitor data modeling. Journal of Physics: Conference Series, 2015, 632, 012076.	0.4	2
60	Jupiterâ€™s Magnetosphere: Plasma Sources and Transport. Space Science Reviews, 2015, 192, 209-236.	8.1	19
61	The H2O and O2 exospheres of Ganymede: The result of a complex interaction between the jovian magnetospheric ions and the icy moon. Icarus, 2015, 245, 306-319.	2.5	52
62	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
63	The comparative exploration of the ice giant planets with twin spacecraft: Unveiling the history of our Solar System. Planetary and Space Science, 2014, 104, 93-107.	1.7	31
64	THE GROUND-LEVEL ENHANCEMENT OF 2012 MAY 17: DERIVATION OF SOLAR PROTON EVENT PROPERTIES THROUGH THE APPLICATION OF THE NMBANGLE PPOLA MODEL. Astrophysical Journal, 2014, 785, 160.	4.5	33
65	Geant4 software application for the simulation of cosmic ray showers in the Earthâ€™s atmosphere. New Astronomy, 2014, 33, 26-37.	1.8	31
66	The influence of space environment on the evolution of Mercury. Icarus, 2014, 239, 281-290.	2.5	12
67	The Venus nighttime atmosphere as observed by the VIRTISâ€M instrument. Average fields from the complete infrared data set. Journal of Geophysical Research E: Planets, 2014, 119, 837-849.	3.6	32
68	Exospheric O2 densities at Europa during different orbital phases. Planetary and Space Science, 2013, 88, 42-52.	1.7	40
69	Energetic neutral particles detection in the environment of Jupiterâ€™s icy moons: Ganymedeâ€™s and Europaâ€™s neutral imaging experiment (GENIE). Planetary and Space Science, 2013, 88, 53-63.	1.7	6
70	Cosmic ray events in the beginning of 2012. Journal of Physics: Conference Series, 2013, 409, 012206.	0.4	2
71	The role of sputtering and radiolysis in the generation of Europa exosphere. Icarus, 2012, 218, 956-966.	2.5	54
72	Observing planets and small bodies in sputtered high-energy atom fluxes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	7

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73	Exosphere generation of the Moon investigated through a high-energy neutral detector. Experimental Astronomy, 2011, 32, 37-49.	3.7	2
74	Intense Ground-Level Enhancements of Solar Cosmic Rays During the Last Solar Cycles. Solar Physics, 2011, 269, 155-168.	2.5	29
75	Applications and usage of the real-time Neutron Monitor Database. Advances in Space Research, 2011, 47, 2210-2222.	2.6	105
76	Solar activity and the associated ground level enhancements of solar cosmic rays during solar cycle 23. Astrophysics and Space Sciences Transactions, 2011, 7, 439-443.	1.0	13
77	A New Version of the Neutron Monitor Based Anisotropic GLE Model: Application to GLE60. Solar Physics, 2010, 264, 239-254.	2.5	16
78	Neutral particle release from Europaâ€™s surface. Icarus, 2010, 210, 385-395.	2.5	42
79	Modeling the solar cosmic ray event of 13 December 2006 using ground level neutron monitor data. Advances in Space Research, 2009, 43, 474-479.	2.6	26
80	Athens Neutron Monitor Data Processing Center â€“ ANMODAP Center. Advances in Space Research, 2009, 44, 1237-1246.	2.6	3
81	Space weathering on near-Earth objects investigated by neutral-particle detection. Planetary and Space Science, 2009, 57, 384-392.	1.7	6
82	Neutron monitor asymptotic directions of viewing during the event of 13 December 2006. Advances in Space Research, 2009, 43, 518-522.	2.6	12
83	GLEs as a Warning Tool for Radiation Effects on Electronics and Systems: A New Alert System Based on Real-Time Neutron Monitors. IEEE Transactions on Nuclear Science, 2007, 54, 1082-1088.	2.0	10
84	Modeling ground level enhancements: Event of 20 January 2005. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	79
85	Space weather prediction by cosmic rays. Advances in Space Research, 2006, 37, 1141-1147.	2.6	26
86	The new Athens Center applied to Space Weather Forecasting. AIP Conference Proceedings, 2006, , .	0.4	0
87	Unexpected burst of solar activity recorded by neutron monitors during Octoberâ€“November 2003. Advances in Space Research, 2005, 35, 691-696.	2.6	19
88	A study of the ground level enhancement of 23 February 1956. Advances in Space Research, 2005, 35, 697-701.	2.6	23
89	Coronal index as a solar activity index applied to space weather. Advances in Space Research, 2005, 35, 410-415.	2.6	16
90	Solar cosmic rays during the extremely high ground level enhancement on 23 February 1956. Annales Geophysicae, 2005, 23, 2281-2291.	1.6	26

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91	Space weather forecasting at the new Athens center: the recent extreme events of January 2005. IEEE Transactions on Nuclear Science, 2005, 52, 2307-2312.	2.0	8
92	Magnetospheric effects in cosmic rays during the unique magnetic storm on November 2003. Journal of Geophysical Research, 2005, 110, .	3.3	101
93	Cosmic-Ray Variations During the Two Greatest Bursts of Solar Activity in the 23rd Solar Cycle. Solar Physics, 2004, 224, 345-358.	2.5	13
94	An empirical model of the daily evolution of the coronal index. Solar Physics, 2003, 218, 63-78.	2.5	5
95	Climate Issues from the Planetary Perspective and Insights for the Earth. , 0, , 40-54.		1
96	The first Coronal Mass Ejection observed in both visible-light and UV H I Ly-alpha channels of the Metis Coronagraph on board Solar Orbiter. Astronomy and Astrophysics, 0, , .	5.1	11
97	Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury. Astronomy and Astrophysics, 0, , .	5.1	0