

# Monica Laurenza

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

1,440  
citations

331538

21  
h-index

360920

35  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acceleration of Solar Energetic Particles through CME-driven Shock and Streamer Interaction. <i>Astrophysical Journal</i> , 2022, 926, 227.	1.6	9
2	Markovian Features of the Solar Wind at Subproton Scales. <i>Astrophysical Journal Letters</i> , 2022, 928, L21.	3.0	11
3	Review of the Particle Background of the Athena X-IFU Instrument. <i>Astrophysical Journal</i> , 2021, 909, 111.	1.6	11
4	Multiscale Features of the Near-Hermean Environment as Derived Through the Hilbert-Huang Transform. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	4
5	Proton Energy Spectra of Energetic Storm Particle Events and Relation with Shock Parameters and Turbulence. <i>Astrophysical Journal</i> , 2021, 915, 8.	1.6	9
6	Evidence for local particle acceleration in the first recurrent galactic cosmic ray depression observed by Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, L10.	2.1	2
7	Geomagnetic activity recurrences for predicting the amplitude and shape of solar cycle n. 25. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 52.	1.1	3
8	Open Issues in Statistical Forecasting of Solar Proton Events: A Machine Learning Perspective. <i>Space Weather</i> , 2021, 19, e2021SW002794.	1.3	13
9	Earth-affecting solar transients: a review of progresses in solar cycle 24. <i>Progress in Earth and Planetary Science</i> , 2021, 8, 56.	1.1	56
10	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	71
11	Solar Intensity X-Ray and Particle Spectrometer SIXS: Instrument Design and First Results. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	20
12	Properties of Solar Wind Structures at Mercury's Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028281.	0.8	5
13	Current state and perspectives of Space Weather science in Italy. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 6.	1.1	18
14	On the Scaling Properties of Magnetic-field Fluctuations through the Inner Heliosphere. <i>Astrophysical Journal</i> , 2020, 902, 84.	1.6	26
15	From the Sun to Earth: effects of the 25 <sup>th</sup> August 2018 geomagnetic storm. <i>Annales Geophysicae</i> , 2020, 38, 703-724.	0.6	52
16	A New Method to Model Magnetic Cloud-driven Forbush Decreases: The 2016 August 2 Event. <i>Astrophysical Journal</i> , 2020, 901, 21.	1.6	12
17	Estimation of the Particle Radiation Environment at the L1 Point and in Near-Earth Space. <i>Astrophysical Journal</i> , 2019, 873, 112.	1.6	10
18	Forbush Decreases and <math>\sim 2</math> Day GCR Flux Non-recurrent Variations Studied with LISA Pathfinder. <i>Astrophysical Journal</i> , 2019, 874, 167.	1.6	11

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19	A Short-term ESPERTA-based Forecast Tool for Moderate-to-extreme Solar Proton Events. <i>Astrophysical Journal</i> , 2018, 857, 107.	1.6	24
20	Characteristics and Energy Dependence of Recurrent Galactic Cosmic-Ray Flux Depressions and of a Forbush Decrease with LISA Pathfinder. <i>Astrophysical Journal</i> , 2018, 854, 113.	1.6	26
21	On fast and slow Earth's magnetospheric dynamics during geomagnetic storms: a stochastic Langevin approach. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A56.	1.1	23
22	New Closures for More Precise Modeling of Landau Damping in the Fluid Framework. <i>Physical Review Letters</i> , 2018, 121, 135101.	2.9	24
23	Soft proton flux on ATHENA focal plane and its impact on the magnetic diverter design. <i>Experimental Astronomy</i> , 2018, 45, 411-428.	1.6	14
24	The HEPD particle detector and the EFD electric field detector for the CSES satellite. <i>Radiation Physics and Chemistry</i> , 2017, 137, 187-192.	1.4	9
25	Connection between solar activity cycles and grand minima generation. <i>Astronomy and Astrophysics</i> , 2017, 599, A58.	2.1	22
26	Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model. <i>Astrophysical Journal</i> , 2017, 838, 59.	1.6	33
27	Timescale separation in the solar wind-magnetosphere coupling during St. Patrick's Day storms in 2013 and 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4266-4283.	0.8	43
28	On Weibull's Spectrum of Nonrelativistic Energetic Particles at IP Shocks: Observations and Theoretical Interpretation. <i>Astrophysical Journal</i> , 2017, 837, 158.	1.6	12
29	Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems. <i>Solar Physics</i> , 2017, 292, 1.	1.0	62
30	Environmental radiation dosimetry at Argentine Antarctic Marambio Base (64° 13' S, 56° 43' W): preliminary results. <i>Journal of Environmental Radioactivity</i> , 2017, 175-176, 149-157.	0.9	7
31	Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems. , 2017, , 225-280.		0
32	The Weibull functional form for the energetic particle spectrum at interplanetary shock waves. <i>Journal of Physics: Conference Series</i> , 2016, 767, 012015.	0.3	8
33	Updates on the background estimates for the X-IFU instrument onboard of the ATHENA mission. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
34	The Cryogenic AntiCoincidence detector for ATHENA X-IFU: a program overview. <i>Proceedings of SPIE</i> , 2016, , .	0.8	10
35	Recurrent flares in active region NOAA 11283. <i>Astronomy and Astrophysics</i> , 2015, 582, A55.	2.1	29
36	Cosmic ray intensity for about five solar cycles. <i>Journal of Physics: Conference Series</i> , 2015, 632, 012065.	0.3	4

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37	The Weibull functional form for SEP event spectra. Journal of Physics: Conference Series, 2015, 632, 012066.	0.3	12
38	Derivation of relativistic SEP properties through neutron monitor data modeling. Journal of Physics: Conference Series, 2015, 632, 012076.	0.3	2
39	DRIFT EFFECTS ON THE GALACTIC COSMIC RAY MODULATION. Astrophysical Journal, 2014, 781, 71.	1.6	12
40	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.	1.6	33
41	Cloud cover and UV index estimates in Chile from satellite-derived and ground-based data. Atmospheric Research, 2014, 138, 139-151.	1.8	16
42	LISA-PF radiation monitor performance during the evolution of SEP events for the monitoring of test-mass charging. Classical and Quantum Gravity, 2014, 31, 045018.	1.5	7
43	On the spectral shape of SEP events: An extreme value statistics approach. AIP Conference Proceedings, 2013, , .	0.3	3
44	Performance test of a large modular cosmic-ray detector. Journal of Physics: Conference Series, 2013, 409, 012045.	0.3	0
45	Spectral shape of solar particle events at energies above 100 MeV/n. Journal of Physics: Conference Series, 2013, 409, 012159.	0.3	4
46	Quasi-Biennial Modulation of the Solar Neutrino Flux: A "Telescope" for the Solar Interior. Journal of Modern Physics, 2013, 04, 49-56.	0.3	3
47	On the role of radiation monitors on board LISA Pathfinder and future space interferometers. Classical and Quantum Gravity, 2012, 29, 105001.	1.5	12
48	THE EMPIRICAL MODE DECOMPOSITION TO STUDY THE QUASI-BIENNIAL MODULATION OF SOLAR MAGNETIC ACTIVITY AND SOLAR NEUTRINO FLUX. Advances in Adaptive Data Analysis, 2012, 04, 1250014.	0.6	3
49	New Insights on Cosmic Ray Modulation through a Joint Use of Nonstationary Data-Processing Methods. Advances in Astronomy, 2012, 2012, 1-9.	0.5	15
50	Three years of ground-based total ozone measurements in the Arctic: Comparison with OMI, GOME and SCIAMACHY satellite data. Remote Sensing of Environment, 2012, 127, 162-180.	4.6	28
51	QUASI-BIENNIAL MODULATION OF GALACTIC COSMIC RAYS. Astrophysical Journal, 2012, 749, 167.	1.6	36
52	THE DYNAMICS OF THE SOLAR MAGNETIC FIELD: POLARITY REVERSALS, BUTTERFLY DIAGRAM, AND QUASI-BIENNIAL OSCILLATIONS. Astrophysical Journal, 2012, 749, 27.	1.6	61
53	A Shannon entropy approach to the temporal evolution of SEP energy spectrum. Astrophysics and Space Sciences Transactions, 2012, 8, 19-24.	1.0	9
54	SEP events and multi-spacecraft observations: Constraints on theory. Advances in Space Research, 2011, 47, 2127-2139.	1.2	7

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55	Spatio-temporal variability of the photospheric magnetic field. Proceedings of the International Astronomical Union, 2010, 6, 204-206.	0.0	0
56	QUASI-BIENNIAL MODULATION OF SOLAR NEUTRINO FLUX AND SOLAR AND GALACTIC COSMIC RAYS BY SOLAR CYCLIC ACTIVITY. Astrophysical Journal Letters, 2010, 709, L1-L5.	3.0	57
57	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. Planetary and Space Science, 2010, 58, 40-60.	0.9	43
58	Persistence in recurrent geomagnetic activity and its connection with Space Climate. Journal of Geophysical Research, 2010, 115, .	3.3	11
59	Ozone variability related to several SEP events occurring during solar cycle no. 23. Advances in Space Research, 2009, 43, 28-40.	1.2	22
60	A 3NM-64_3He added to LARC for Solar Extreme Event studies during solar cycle 24. Advances in Space Research, 2009, 43, 721-727.	1.2	4
61	Dynamics of the Earth's Particle Radiation Environment. Space Science Reviews, 2009, 147, 187-231.	3.7	160
62	A technique for short-term warning of solar energetic particle events based on flare location, flare size, and evidence of particle escape. Space Weather, 2009, 7, .	1.3	104
63	Search for periodicities in the IMP 8 Charged Particle Measurement Experiment proton fluxes for the energy bands 0.50-0.96 MeV and 190-440 MeV. Journal of Geophysical Research, 2009, 114, .	3.3	18
64	Solar particle effects on minor components of the Polar atmosphere. Annales Geophysicae, 2008, 26, 361-370.	0.6	43
65	Interplanetary magnetic field polarities derived from measurements of the northern and southern polar geomagnetic field. Journal of Geophysical Research, 2006, 111, .	3.3	1
66	Correction to "Interplanetary magnetic field polarities derived from measurements of the northern and southern polar geomagnetic field". Journal of Geophysical Research, 2006, 111, .	3.3	0
67	Southern ozone variations induced by solar particle events during 15 January-5 February 2005. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 2042-2052.	0.6	10