

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	Dynamics of the Earth's Particle Radiation Environment. <i>Space Science Reviews</i> , 2009, 147, 187-231.	3.7	160
2	A technique for short-term warning of solar energetic particle events based on flare location, flare size, and evidence of particle escape. <i>Space Weather</i> , 2009, 7, .	1.3	104
3	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	71
4	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
5	THE DYNAMICS OF THE SOLAR MAGNETIC FIELD: POLARITY REVERSALS, BUTTERFLY DIAGRAM, AND QUASI-BIENNIAL OSCILLATIONS. <i>Astrophysical Journal</i> , 2012, 749, 27.	1.6	61
6	QUASI-BIENNIAL MODULATION OF SOLAR NEUTRINO FLUX AND SOLAR AND GALACTIC COSMIC RAYS BY SOLAR CYCLIC ACTIVITY. <i>Astrophysical Journal Letters</i> , 2010, 709, L1-L5.	3.0	57
7	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
8	From the Sun to Earth: effects of the 25 th August 2018 geomagnetic storm. <i>Annales Geophysicae</i> , 2020, 38, 703-724.	0.6	52
9	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. <i>Planetary and Space Science</i> , 2010, 58, 40-60.	0.9	43
10	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
11	Solar particle effects on minor components of the Polar atmosphere. <i>Annales Geophysicae</i> , 2008, 26, 361-370.	0.6	43
12	QUASI-BIENNIAL MODULATION OF GALACTIC COSMIC RAYS. <i>Astrophysical Journal</i> , 2012, 749, 167.	1.6	36
13	THE GROUND-LEVEL ENHANCEMENT OF 2012 MAY 17: DERIVATION OF SOLAR PROTON EVENT PROPERTIES THROUGH THE APPLICATION OF THE NMBANGLE PPOLA MODEL. <i>Astrophysical Journal</i> , 2014, 785, 160.	1.6	33
14	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
15	Recurrent flares in active region NOAA 11283. <i>Astronomy and Astrophysics</i> , 2015, 582, A55.	2.1	29
16	Three years of ground-based total ozone measurements in the Arctic: Comparison with OMI, GOME and SCIAMACHY satellite data. <i>Remote Sensing of Environment</i> , 2012, 127, 162-180.	4.6	28
17	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
18	On the Scaling Properties of Magnetic-field Fluctuations through the Inner Heliosphere. <i>Astrophysical Journal</i> , 2020, 902, 84.	1.6	26

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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	New Closures for More Precise Modeling of Landau Damping in the Fluid Framework. <i>Physical Review Letters</i> , 2018, 121, 135101.	2.9	24
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	Ozone variability related to several SEP events occurring during solar cycle no. 23. <i>Advances in Space Research</i> , 2009, 43, 28-40.	1.2	22
23	Connection between solar activity cycles and grand minima generation. <i>Astronomy and Astrophysics</i> , 2017, 599, A58.	2.1	22
24	Solar Intensity X-Ray and Particle Spectrometer SIXS: Instrument Design and First Results. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	20
25	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. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	18
26	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
27	Cloud cover and UV index estimates in Chile from satellite-derived and ground-based data. <i>Atmospheric Research</i> , 2014, 138, 139-151.	1.8	16
28	New Insights on Cosmic Ray Modulation through a Joint Use of Nonstationary Data-Processing Methods. <i>Advances in Astronomy</i> , 2012, 2012, 1-9.	0.5	15
29	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
30	Open Issues in Statistical Forecasting of Solar Proton Events: A Machine Learning Perspective. <i>Space Weather</i> , 2021, 19, e2021SW002794.	1.3	13
31	On the role of radiation monitors on board LISA Pathfinder and future space interferometers. <i>Classical and Quantum Gravity</i> , 2012, 29, 105001.	1.5	12
32	DRIFT EFFECTS ON THE GALACTIC COSMIC RAY MODULATION. <i>Astrophysical Journal</i> , 2014, 781, 71.	1.6	12
33	The Weibull functional form for SEP event spectra. <i>Journal of Physics: Conference Series</i> , 2015, 632, 012066.	0.3	12
34	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
35	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
36	Persistence in recurrent geomagnetic activity and its connection with Space Climate. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11

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37	Forbush Decreases and \sim 2 Day GCR Flux Non-recurrent Variations Studied with LISA Pathfinder. <i>Astrophysical Journal</i> , 2019, 874, 167.	1.6	11
38	Review of the Particle Background of the Athena X-IFU Instrument. <i>Astrophysical Journal</i> , 2021, 909, 111.	1.6	11
39	Markovian Features of the Solar Wind at Subproton Scales. <i>Astrophysical Journal Letters</i> , 2022, 928, L21.	3.0	11
40	Southern ozone variations induced by solar particle events during 15 January–5 February 2005. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 2042-2052.	0.6	10
41	The Cryogenic AntiCoincidence detector for ATHENA X-IFU: a program overview. <i>Proceedings of SPIE</i> , 2016, , .	0.8	10
42	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
43	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
44	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
45	A Shannon entropy approach to the temporal evolution of SEP energy spectrum. <i>Astrophysics and Space Sciences Transactions</i> , 2012, 8, 19-24.	1.0	9
46	Acceleration of Solar Energetic Particles through CME-driven Shock and Streamer Interaction. <i>Astrophysical Journal</i> , 2022, 926, 227.	1.6	9
47	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
48	SEP events and multi-spacecraft observations: Constraints on theory. <i>Advances in Space Research</i> , 2011, 47, 2127-2139.	1.2	7
49	LISA-PF radiation monitor performance during the evolution of SEP events for the monitoring of test-mass charging. <i>Classical and Quantum Gravity</i> , 2014, 31, 045018.	1.5	7
50	Environmental radiation dosimetry at Argentine Antarctic Marambio Base ($64^{\circ} 13' S$, $56^{\circ} 43' W$): preliminary results. <i>Journal of Environmental Radioactivity</i> , 2017, 175-176, 149-157.	0.9	7
51	Properties of Solar Wind Structures at Mercury's Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028281.	0.8	5
52	A 3NM-64_3He added to LARC for Solar Extreme Event studies during solar cycle 24. <i>Advances in Space Research</i> , 2009, 43, 721-727.	1.2	4
53	Spectral shape of solar particle events at energies above 100 MeV/n. <i>Journal of Physics: Conference Series</i> , 2013, 409, 012159.	0.3	4
54	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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55	Multiscale Features of the Near-Hermean Environment as Derived Through the Hilbert-Huang Transform. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	4
56	THE EMPIRICAL MODE DECOMPOSITION TO STUDY THE QUASI-BIENNIAL MODULATION OF SOLAR MAGNETIC ACTIVITY AND SOLAR NEUTRINO FLUX. <i>Advances in Adaptive Data Analysis</i> , 2012, 04, 1250014.	0.6	3
57	On the spectral shape of SEP events: An extreme value statistics approach. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	3
58	Updates on the background estimates for the X-IFU instrument onboard of the ATHENA mission. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
59	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
60	Quasi-Biennial Modulation of the Solar Neutrino Flux: A "Telescope" for the Solar Interior. <i>Journal of Modern Physics</i> , 2013, 04, 49-56.	0.3	3
61	Derivation of relativistic SEP properties through neutron monitor data modeling. <i>Journal of Physics: Conference Series</i> , 2015, 632, 012076.	0.3	2
62	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
63	Interplanetary magnetic field polarities derived from measurements of the northern and southern polar geomagnetic field. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	1
64	Correction to "Interplanetary magnetic field polarities derived from measurements of the northern and southern polar geomagnetic field". <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	0
65	Spatio-temporal variability of the photospheric magnetic field. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 204-206.	0.0	0
66	Performance test of a large modular cosmic-ray detector. <i>Journal of Physics: Conference Series</i> , 2013, 409, 012045.	0.3	0
67	Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems. , 2017, , 225-280.		0