Mirko Piersanti

List of Publications by Year
in descending order

64 papers	874 citations	471509 17 h-index	552781 26 g-index
86 all docs	86 docs citations	86 times ranked	731 citing authors

#	Article	IF	Citations
1	Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems. Solar Physics, 2017, 292, 1.	2.5	62
2	From the Sun to Earth: effects of the 25ÂAugustÂ2018 geomagnetic storm. Annales Geophysicae, 2020, 38, 703-724.	1.6	52
3	Geomagnetically induced currents around the world during the 17 March 2015 storm. Journal of Geophysical Research: Space Physics, 2016, 121, 10,496.	2.4	50
4	Adaptive Local Iterative Filtering: A Promising Technique for the Analysis of Nonstationary Signals. Journal of Geophysical Research: Space Physics, 2018, 123, 1031-1046.	2.4	40
5	Magnetosphericâ€"Ionosphericâ€"Lithospheric Coupling Model. 1: Observations during the 5 August 2018 Bayan Earthquake. Remote Sensing, 2020, 12, 3299.	4.0	37
6	An analysis of sudden impulses at geosynchronous orbit. Journal of Geophysical Research, 2008, 113, .	3.3	36
7	Scientific Goals and In-orbit Performance of the High-energy Particle Detector on Board the CSES. Astrophysical Journal, Supplement Series, 2019, 243, 16.	7.7	33
8	Identification of the different magnetic field contributions during a geomagnetic storm in magnetospheric and ground observations. Annales Geophysicae, 2016, 34, 1069-1084.	1.6	25
9	Does TEC react to a sudden impulse as a whole? The 2015 Saint Patrickâ€™s day storm event. Advances in Space Research, 2017, 60, 1807-1816.	2.6	23
10	Long-period oscillations at discrete frequencies: A comparative analysis of ground, magnetospheric, and interplanetary observations. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	21
11	On the transmission of waves at discrete frequencies from the solar wind to the magnetosphere and ground: A case study. Journal of Geophysical Research: Space Physics, 2016, 121, 380-396.	2.4	21
12	On the discrimination between magnetospheric and ionospheric contributions on the ground manifestation of sudden impulses. Journal of Geophysical Research: Space Physics, 2016, 121, 6674-6691.	2.4	21
13	The Electric Field Detector on Board the China Seismo Electromagnetic Satelliteâ€"In-Orbit Results and Validation. Instruments, 2021, 5, 1.	1.8	21
14	Sudden impulses at geosynchronous orbit and at ground. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 61-76.	1.6	20
15	The 8 June 2000 ULF wave activity: A case study. Journal of Geophysical Research, 2012, 117, .	3.3	20
16	Comparison of equatorial plasma mass densities deduced from field line resonances observed at ground for dipole and IGRF models. Journal of Geophysical Research: Space Physics, 2014, 119, 2623-2633.	2.4	19
17	Electromagnetic field observations by the DEMETER satellite in connection with the 2009 L'Aquila earthquake. Annales Geophysicae, 2018, 36, 1483-1493.	1.6	19
18	A mathematical model of lithosphereâ€"atmosphere coupling for seismic events. Scientific Reports, 2021, 11, 8682.	3.3	19

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19	Galactic Cosmic-Ray Hydrogen Spectra in the 40â€“250 MeV Range Measured by the High-energy Particle Detector (HEPD) on board the CSES-01 Satellite between 2018 and 2020. Astrophysical Journal, 2020, 901, 8.	4.5	19
20	Geoelectric Field Evaluation During the September 2017 Geomagnetic Storm: MA.I.GIC. Model. Space Weather, 2019, 17, 1241-1256.	3.7	18
21	On some features characterizing the plasmasphereâ€“magnetosphereâ€“ionosphere system during the geomagnetic storm of 27 May 2017. Earth, Planets and Space, 2019, 71, 77.	2.5	18
22	Storm-Time Features of the Ionospheric ELF/VLF Waves and Energetic Electron Fluxes Revealed by the China Seismo-Electromagnetic Satellite. Applied Sciences (Switzerland), 2021, 11, 2617.	2.5	18
23	The response of high latitude ionosphere to the 2015 St. Patrickâ€™s day storm from in situ and ground based observations. Advances in Space Research, 2018, 62, 638-650.	2.6	17
24	Role of the external drivers in the occurrence of low-latitude ionospheric scintillation revealed by multi-scale analysis. Journal of Space Weather and Space Climate, 2019, 9, A35.	3.3	17
25	Beam test calibrations of the HEPD detector on board the China Seismo-Electromagnetic Satellite. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 974, 164170.	1.6	15
26	Solar Flux Influence on the Inâ€Situ Plasma Density at Topside Ionosphere Measured by Swarm Satellites. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	14
27	Magnetospheric plasma density inferred from field line resonances: Effects of using different magnetic field models. , 2014, , .		13
28	The Seismic Electromagnetic Emissions During the 2010 Mw 7.8 Northern Sumatra Earthquake Revealed by DEMETER Satellite. Frontiers in Earth Science, 2020, 8, .	1.8	13
29	Simultaneous Observations of ELF/VLF Risingâ€Tone Quasiperiodic Waves and Energetic Electron Precipitations in the Highâ€Latitude Upper Ionosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027574.	2.4	13
30	The August 2018 Geomagnetic Storm Observed by the High-Energy Particle Detector on Board the CSES-01 Satellite. Applied Sciences (Switzerland), 2021, 11, 5680.	2.5	13
31	Analysis of geomagnetic sudden impulses at low latitudes. Journal of Geophysical Research, 2009, 114, .	3.3	12
32	Multidimensional Iterative Filtering: a new approach for investigating plasma turbulence in numerical simulations. Journal of Plasma Physics, 2020, 86, .	2.1	12
33	Can an impulsive variation of the solar wind plasma pressure trigger a plasma bubble? A case study based on CSES, Swarm and THEMIS data. Advances in Space Research, 2021, 67, 35-45.	2.6	12
34	Control and data acquisition software of the highâ€energy particle detector on board the China Seismoâ€Electromagnetic Satellite space mission. Software - Practice and Experience, 2021, 51, 1459-1480.	3.6	10
35	Investigation of the Physical Processes Involved in GNSS Amplitude Scintillations at High Latitude: A Case Study. Remote Sensing, 2021, 13, 2493.	4.0	9
36	Spacetime Hall-MHD Turbulence at Sub-ion Scales: Structures or Waves?. Astrophysical Journal Letters, 2021, 917, L12.	8.3	9

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37	Applying a curlâ€B technique to Swarm vector data to estimate nighttime <i>F</i> region current intensities. Geophysical Research Letters, 2015, 42, 6162-6169.	4.0	8
38	Electric Field Multifractal Features in the High-Latitude Ionosphere: CSES-01 Observations. Atmosphere, 2021, 12, 646.	2.3	7
39	Stepping into the Equatorward Boundary of the Auroral Oval: preliminary results of multi scale statistical analysis. Annals of Geophysics, 2019, 61, .	1.0	7
40	An inquiry into the structure and dynamics of crude oil price using the fast iterative filtering algorithm. Energy Economics, 2020, 92, 104952.	12.1	6
41	On the Source of the Anomalous ULF Waves Detected at Both Ground and Spaceâ€Borne Data on 23 June 2020. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	6
42	Properties of Solar Wind Structures at Mercury's Orbit. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028281.	2.4	5
43	The response of high latitude ionosphere to the 2015 June 22 storm. Annals of Geophysics, 2018, 61, .	1.0	5
44	Prominence of the training data preparation in geomagnetic storm prediction using deep neural networks. Scientific Reports, 2022, 12, 7631.	3.3	5
45	Sudden commencement event of 17 April 2002: Aspects of the geomagnetic response at low latitudes. Journal of Geophysical Research, 2005, 110, .	3.3	4
46	Trapped Proton Fluxes Estimation Inside the South Atlantic Anomaly Using the NASA AE9/AP9/SPM Radiation Models along the China Seismo-Electromagnetic Satellite Orbit. Applied Sciences (Switzerland), 2021, 11, 3465.	2.5	4
47	On the Magnetosphereâ€Ionosphere Coupling During the May 2021 Geomagnetic Storm. Space Weather, 2022, 20, .	3.7	4
48	On Turbulent Features of E Ã— B Plasma Motion in the Auroral Topside Ionosphere: Some Results from CSES-01 Satellite. Remote Sensing, 2022, 14, 1936.	4.0	3
49	Sudden Impulses in the Magnetosphere and at Ground. , 0, , .		2
50	Role of the external drivers in the occurrence of low-latitude ionospheric scintillation revealed by multi-scale analysis. , 2019, , .		2
51	Including the Temporal Dimension in the SECS Technique. Space Weather, 2020, 18, e2020SW002491.	3.7	2
52	Geomagnetically induced currents. , 2020, , 121-134.		2
53	On the Geomagnetic Field Line Resonance Eigenfrequency Variations during Seismic Event. Remote Sensing, 2021, 13, 2839.	4.0	2
54	On the propagation of sudden impulses through the magnetosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 115-116, 2-6.	1.6	1

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55	Comment on â€œStatistical analysis of geosynchronous magnetic field perturbations near midnight during sudden commencementsâ€•by J.â€S. Park et al.. Journal of Geophysical Research: Space Physics, 2015, 120, 3821-3823.	2.4	1
56	Space-Weather capabilities and preliminary results of the High Energy Particle Detector (HEPD) on-board the CSES-01 satellite. , 2019, , .		1
57	Correction to â€œLong-period oscillations at discrete frequencies: A comparative analysis of ground, magnetospheric, and interplanetary observationsâ€• Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	0
58	Storage and retrieval of ultrametric patterns in a network of CA1 neurons of the hippocampus. P-Adic Numbers, Ultrametric Analysis, and Applications, 2013, 5, 260-277.	0.4	0
59	The HEPD-02 trigger and PMT readout system for the CSES-02 mission. , 2021, , .		0
60	The High-Energy Particle Detector (HEPD-01) as a space weather monitoring instrument on board the CSES-01 satellite. , 2021, , .		0
61	Precise Measurement of the Gas Gain of a Multi-Wire Proportional Chamber with Cosmic Rays. , 2010, , .		0
62	Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems. , 2017, , 225-280.		0
63	Status and performance of the High Energy Particle Detector (HEPD) on-board the CSES-01 satellite. , 2019, , .		0
64	Deep learning based event reconstruction for the Limadou High-Energy Particle Detector. Physical Review D, 2022, 105, .	4.7	0