

Maria Federica Marcucci

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

930

citations

15

h-index

28

g-index

65

ext. papers

1,099

ext. citations

2.8

avg, IF

3.69

L-index

#	Paper	IF	Citations
62	Contribution of nonadiabatic ions to the cross-tail current in an O+ dominated thin current sheet. <i>Journal of Geophysical Research</i> , 2005 , 110,		97
61	Ion composition and pressure changes in storm time and nonstorm substorms in the vicinity of the near-Earth neutral line. <i>Journal of Geophysical Research</i> , 2006 , 111,		77
60	Structure of the separatrix region close to a magnetic reconnection X-line: Cluster observations. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	75
59	Occurrence of reconnection jets at the dayside magnetopause: Double Star observations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		70
58	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	2.6	45
57	High kinetic energy density jets in the Earth's magnetosheath: A case study. <i>Planetary and Space Science</i> , 2011 , 59, 482-494	2	45
56	Cluster multispacecraft observations at the high-latitude duskside magnetopause: implications for continuous and component magnetic reconnection. <i>Annales Geophysicae</i> , 2005 , 23, 461-473	2	42
55	SOLAR ENERGETIC PARTICLE MODULATIONS ASSOCIATED WITH COHERENT MAGNETIC STRUCTURES. <i>Astrophysical Journal</i> , 2013 , 770, 11	4.7	36
54	Interplanetary shock transmitted into the Earth's magnetosheath: Cluster and Double Star observations. <i>Annales Geophysicae</i> , 2010 , 28, 1141-1156	2	29
53	From the Sun to Earth: effects of the 25 August 2018 geomagnetic storm. <i>Annales Geophysicae</i> , 2020 , 38, 703-724	2	27
52	Energetic magnetospheric oxygen in the magnetosheath and its response to IMF orientation: Cluster observations. <i>Journal of Geophysical Research</i> , 2004 , 109,		25
51	Multifractal and Chaotic Properties of Solar Wind at MHD and Kinetic Domains: An Empirical Mode Decomposition Approach. <i>Entropy</i> , 2019 , 21,	2.8	24
50	Recurrent flares in active region NOAA 11283. <i>Astronomy and Astrophysics</i> , 2015 , 582, A55	5.1	24
49	Observations of IMF coherent structures and their relationship to SEP dropout events. <i>Annales Geophysicae</i> , 2013 , 31, 1333-1341	2	22
48	Observations of high-latitude geomagnetic field fluctuations during St. Patrick's Day storm: Swarm and SuperDARN measurements. <i>Earth, Planets and Space</i> , 2016 , 68,	2.9	15
47	AE index forecast at different time scales through an ANN algorithm based on L1 IMF and plasma measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 663-668	2	15
46	Comparison between three algorithms for Dst predictions over the 2003-2005 period. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 496-502	2	15

45	Cross-scale: multi-scale coupling in space plasmas. <i>Experimental Astronomy</i> , 2009 , 23, 1001-1015	1.3	14
44	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	2.5	14
43	A Hilbert-Huang transform approach to space plasma turbulence at kinetic scales. <i>Journal of Physics: Conference Series</i> , 2017 , 900, 012003	0.3	13
42	TC-1 observations of a flux rope: Generation by multiple X line reconnection. <i>Journal of Geophysical Research</i> , 2011 , 116,		13
41	Global reconnection topology as inferred from plasma observations inside Kelvin-Helmholtz vortices. <i>Annales Geophysicae</i> , 2010 , 28, 893-906	2	13
40	Kinetic signatures during a quasi-continuous lobe reconnection event: Cluster Ion Spectrometer (CIS) observations. <i>Journal of Geophysical Research</i> , 2006 , 111,		13
39	The effect of diamagnetic drift on motion of the dayside magnetopause reconnection line. <i>Geophysical Research Letters</i> , 2015 , 42, 6129-6136	4.9	12
38	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	12
37	Experimental study of nonlinear interaction of plasma flow with charged thin current sheets: 1. Boundary structure and motion. <i>Nonlinear Processes in Geophysics</i> , 2006 , 13, 365-376	2.9	11
36	Investigation of the source region of ionospheric oxygen outflow in the cleft/cusp using multi-spacecraft observations by CIS onboard Cluster. <i>Advances in Space Research</i> , 2004 , 34, 2459-2464	2.4	11
35	On the occurrence of magnetic reconnection equatorward of the cusps at the Earth's magnetopause during northward IMF conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 605-617	2.6	10
34	Scaling Features of High-Latitude Geomagnetic Field Fluctuations at Swarm Altitude: Impact of IMF Orientation. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,548-10,562	2.6	10
33	Extended SuperDARN and IMAGE observations for northward IMF: Evidence for dual lobe reconnection. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		10
32	On the Scaling Properties of Magnetic-field Fluctuations through the Inner Heliosphere. <i>Astrophysical Journal</i> , 2020 , 902, 84	4.7	7
31	Estimation of the Particle Radiation Environment at the L1 Point and in Near-Earth Space. <i>Astrophysical Journal</i> , 2019 , 873, 112	4.7	6
30	Motion of auroral ion outflow structures observed with CLUSTER and IMAGE FUV. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 17-1-SMP 17-11		6
29	Global Diagnostics of Ionospheric Absorption During X-Ray Solar Flares Based on 8- to 20-MHz Noise Measured by Over-the-Horizon Radars. <i>Space Weather</i> , 2019 , 17, 907-924	3.7	5
28	STATISTICS OF THE VELOCITY GRADIENT TENSOR IN SPACE PLASMA TURBULENT FLOWS. <i>Astrophysical Journal</i> , 2015 , 812, 84	4.7	5

27	Ion injections at auroral latitude during the March 31, 2001 magnetic storm observed by Cluster. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	5
26	Effects on SuperDARN HF radar echoes of sudden impulses of solar wind dynamic pressure. <i>Annales Geophysicae</i> , 2005 , 23, 1771-1783	2	5
25	Solar wind-driven Pc5 waves observed at a polar cap station and in the near cusp ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,145-11,156	2.6	5
24	Ionospheric Turbulence and the Equatorial Plasma Density Irregularities: Scaling Features and RODI. <i>Remote Sensing</i> , 2021 , 13, 759	5	5
23	Cosmic ray intensity for about five solar cycles. <i>Journal of Physics: Conference Series</i> , 2015 , 632, 012065	0.3	4
22	Different responses of northern and southern high latitude ionospheric convection to IMF rotations: a case study based on SuperDARN observations. <i>Annales Geophysicae</i> , 2009 , 27, 2423-2438	2	4
21	Electric Field Multifractal Features in the High-Latitude Ionosphere: CSES-01 Observations. <i>Atmosphere</i> , 2021 , 12, 646	2.7	4
20	On Geometrical Invariants of the Magnetic Field Gradient Tensor in Turbulent Space Plasmas: Scale Variability in the Inertial Range. <i>Astrophysical Journal</i> , 2019 , 878, 124	4.7	3
19	STATISTICAL AND SCALING FEATURES OF FLUCTUATIONS IN THE DISSIPATION RANGE DURING A RECONNECTION EVENT. <i>Astrophysical Journal</i> , 2015 , 804, 19	4.7	3
18	Dynamical changes of the polar cap potential structure: an information theory approach. <i>Nonlinear Processes in Geophysics</i> , 2011 , 18, 697-707	2.9	3
17	Effects of Abrupt Variations of Solar Wind Dynamic Pressure on the High-Latitude Ionosphere. <i>International Journal of Geophysics</i> , 2011 , 2011, 1-8	2	3
16	Observations of the relationship between ionospheric central polar cap and dayside throat convection velocities, and solar wind/IMF driving. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4684-4699	2.6	2
15	ANN forecast of hourly averaged AE index based on L1 IMF and plasma measurements. <i>Acta Geophysica</i> , 2009 , 57, 185-196	2.2	2
14	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 1	1.3	2
13	High-latitude polar pattern of ionospheric electron density: Scaling features and IMF dependence. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021 , 217, 105531	2	2
12	2016 ,		2
11	Beam tracking strategies for fast acquisition of solar wind velocity distribution functions with high energy and angular resolutions. <i>Annales Geophysicae</i> , 2018 , 36, 1285-1302	2	2
10	Importance of energy and angular resolutions in top-hat electrostatic analysers for solar wind proton measurements. <i>Journal of Instrumentation</i> , 2016 , 11, C08010-C08010	1	1

9	Sign-Singularity Analysis of Field-Aligned Currents in the Ionosphere. <i>Atmosphere</i> , 2021 , 12, 708	2.7	1
8	Occurrence of GPS Loss of Lock Based on a Swarm Half-Solar Cycle Dataset and Its Relation to the Background Ionosphere. <i>Remote Sensing</i> , 2021 , 13, 2209	5	1
7	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	2.3	1
6	Open Issues in Statistical Forecasting of Solar Proton Events: A Machine Learning Perspective. <i>Space Weather</i> , 2021 , 19, e2021SW002794	3.7	1
5	On Turbulent Features of E \times B Plasma Motion in the Auroral Topside Ionosphere: Some Results from CSES-01 Satellite. <i>Remote Sensing</i> , 2022 , 14, 1936	5	0
4	Performance test of a large modular cosmic-ray detector. <i>Journal of Physics: Conference Series</i> , 2013 , 409, 012045	0.3	
3	Future Extension of the Super Dual Auroral Radar Network. <i>Earth, Moon and Planets</i> , 2009 , 104, 29-31	0.6	
2	Auroral activity and antarctic stratospheric ozone. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999 , 24, 141-146		
1	On the scaling features of magnetic field fluctuations at non-MHD scales in turbulent space plasmas. <i>Journal of Physics: Conference Series</i> , 2016 , 767, 012003	0.3	