

# Therese Moretto

## List of Publications by Year in descending order

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56  
papers

1,190  
citations

430874

18  
h-index

395702

33  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global energy deposition during the January 1997 magnetic cloud event. <i>Journal of Geophysical Research</i> , 1998, 103, 11685-11694.	3.3	159
2	Coordinated observations demonstrating external substorm triggering. <i>Journal of Geophysical Research</i> , 1997, 102, 27039-27051.	3.3	156
3	Multi-instrument ground-based observations of a travelling convection vortices event. <i>Annales Geophysicae</i> , 1996, 14, 162-181.	1.6	70
4	Electrodynamic coupling of high and low latitudes: Observations on May 27, 1993. <i>Journal of Geophysical Research</i> , 2000, 105, 22979-22989.	3.3	58
5	Field-aligned currents during northward interplanetary magnetic field: Morphology and causes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	45
6	Extreme Geomagnetic Storms “ 1868” “ 2010. <i>Solar Physics</i> , 2016, 291, 1447-1481.	2.5	45
7	Auroral and geomagnetic events at cusp/mantle latitudes in the prenoon sector during positive IMF Byconditions: Signatures of pulsed magnetopause reconnection. <i>Journal of Geophysical Research</i> , 1997, 102, 7191-7205.	3.3	40
8	High-latitude ionospheric response to a sudden impulse event during northward IMF conditions. <i>Journal of Geophysical Research</i> , 2000, 105, 2521-2531.	3.3	38
9	Global MHD modeling of the impact of a solar wind pressure change. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 21-1.	3.3	38
10	Field-aligned currents in the dayside cusp and polar cap region during northward IMF. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 18-1-SMP 18-5.	3.3	37
11	A multipoint determination of the propagation velocity of a sudden commencement across the polar ionosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 22433-22451.	3.3	35
12	Global perspective of ionospheric traveling convection vortices: Case studies of two Geospace Environmental Modeling events. <i>Journal of Geophysical Research</i> , 1997, 102, 11597-11610.	3.3	29
13	Dynamical auroral morphology in relation to ionospheric plasma convection and geomagnetic activity: Signatures of magnetopause X line dynamics and flux transfer events. <i>Journal of Geophysical Research</i> , 1996, 101, 13275-13292.	3.3	28
14	Daedalus: a low-flying spacecraft for in situ exploration of the lower thermosphere “ ionosphere. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2020, 9, 153-191.	1.6	25
15	Travelling convection vortices in the ionosphere map to the central plasma sheet. <i>Annales Geophysicae</i> , 1996, 14, 1025.	1.6	23
16	Mapping travelling convection vortex events with respect to energetic particle boundaries. <i>Annales Geophysicae</i> , 1998, 16, 891-899.	1.6	21
17	Global analysis of three traveling vortex events during the November 1993 storm using the assimilative mapping of ionospheric electrodynamics technique. <i>Journal of Geophysical Research</i> , 1998, 103, 26349-26358.	3.3	21
18	An Explicit IMF B Dependence on Solar Wind “ Magnetosphere Coupling. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086062.	4.0	21

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19	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	20
20	Using global magnetospheric models for simulation and interpretation of Swarm external field measurements. <i>Earth, Planets and Space</i> , 2006, 58, 439-449.	2.5	19
21	Magnetospheric signature of an ionospheric traveling convection vortex event. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 5-1.	3.3	16
22	CubeSat Mission to Investigate Ionospheric Irregularities. <i>Space Weather</i> , 2008, 6, n/a-n/a.	3.7	16
23	Investigating the auroral electrojets with low altitude polar orbiting satellites. <i>Annales Geophysicae</i> , 2002, 20, 1049-1061.	1.6	15
24	Tracking transient events through geosynchronous orbit. <i>Journal of Geophysical Research</i> , 1999, 104, 10265-10273.	3.3	13
25	Ionospheric convection response to changes of interplanetary magnetic field Bz component during strong By component. <i>Journal of Geophysical Research</i> , 2000, 105, 5231-5243.	3.3	12
26	Solar wind effects on ionospheric convection: a review. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 145-157.	1.6	12
27	On the cause of IMF $B_y$ related mid- and low latitude magnetic disturbances. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	12
28	Travelling convection vortices in the ionosphere map to the central plasma sheet. <i>Annales Geophysicae</i> , 1996, 14, 1025-1031.	1.6	11
29	Incoherent scatter radar observations of the cusp acceleration region and cusp field-aligned currents. <i>Journal of Geophysical Research</i> , 1998, 103, 26721-26730.	3.3	11
30	Small Satellites for Space Weather Research. <i>Space Weather</i> , 2008, 6, n/a-n/a.	3.7	11
31	New approaches to explore the Earth's magnetic field. <i>Journal of Geodynamics</i> , 2002, 33, 29-41.	1.6	10
32	Modeling and analysis of solar wind generated contributions to the near-Earth magnetic field. <i>Earth, Planets and Space</i> , 2006, 58, 451-461.	2.5	10
33	Observations of Asymmetric Lobe Convection for Weak and Strong Tail Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9999-10017.	2.4	10
34	Validating the Space Weather Modeling Framework (SWMF) for applications in northern Europe. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 33.	3.3	10
35	Direct determination of IMF By-related cusp current systems, using SuperDARN radar and multiple ground magnetometer data: A link to theory on cusp current origin. <i>Journal of Geophysical Research</i> , 1999, 104, 17187-17198.	3.3	9
36	Occurrence statistics of magnetic impulsive events. <i>Annales Geophysicae</i> , 2004, 22, 585-602.	1.6	9

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37	Magnetic Effects of Plasma Pressure Gradients in the Upper F Region. <i>Geophysical Research Letters</i> , 2019, 46, 2355-2363.	4.0	9
38	Seasonal and Hemispheric Asymmetries of $F$ Region Polar Cap Plasma Density: Swarm and CHAMP Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028084.	2.4	9
39	Monitoring auroral electrojets with satellite data. <i>Space Weather</i> , 2013, 11, 509-519.	3.7	8
40	Flux pile-up and plasma depletion at the high latitude dayside magnetopause during southward interplanetary magnetic field: a cluster event study. <i>Annales Geophysicae</i> , 2005, 23, 2259-2264.	1.6	6
41	Observations of an enhanced convection flow channel for northward turning IMF. <i>Geophysical Research Letters</i> , 1997, 24, 3137-3140.	4.0	5
42	Time-scale dependence of solar wind-based regression models of ionospheric electrodynamics. <i>Scientific Reports</i> , 2020, 10, 16406.	3.3	5
43	Conjunction of tail satellites for substorm study: ISTP event of 1997 January 2. <i>Geophysical Research Letters</i> , 2000, 27, 1831-1834.	4.0	4
44	The Relationship Between Cusp Region Ion Outflows and East-West Magnetic Field Fluctuations at 4,000 km Altitude. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027454.	2.4	4
45	A New Look at the Electron Diffusion Region in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028456.	2.4	4
46	The Micro-Macro Coupling of Mass Loading in Symmetric Magnetic Reconnection With Cold Ions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090690.	4.0	4
47	Achievements and Lessons Learned From Successful Small Satellite Missions for Space Weather-Oriented Research. <i>Space Weather</i> , 2022, 20, .	3.7	4
48	Semiannual variation of geomagnetic activity in the Greenland magnetometer chain. <i>Physics and Chemistry of the Earth</i> , 1997, 22, 685-689.	0.3	3
49	High-latitude ionospheric convection during strong interplanetary magnetic fieldBy. <i>Geophysical Research Letters</i> , 1999, 26, 405-408.	4.0	3
50	Estimating the Rate of Cessation of Magnetospheric Activity in AMPERE Field-Aligned Currents. <i>Geophysical Research Letters</i> , 2018, 45, 12,713.	4.0	3
51	International Coordination and Support for SmallSat-Enabled Space Weather Activities. <i>Space Weather</i> , 2020, 18, e2020SW002568.	3.7	2
52	The Critical Role of the Research Community in Space Weather Planning and Execution. <i>Space Weather</i> , 2018, 16, 200-204.	3.7	1
53	Asymmetrically Varying Guide Field During Magnetic Reconnection: Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	1
54	Enhancement of heavy quarkonium production in hadron collisions at finite temperature. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 60, 541-555.	1.5	0

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55	Ground observations of dayside small-scale dynamic features. <i>Advances in Space Research</i> , 1997, 20, 863-872.	2.6	0
56	Workshop on Small Satellite Missions for Space Weather Research. <i>Space Weather</i> , 2007, 5, n/a-n/a.	3.7	0