Santiago Marsal

List of Publications by Year
in descending order

25 papers	710 citations	933447 10 h-index	580821 25 g-index
32 all docs	32 docs citations	32 times ranked	735 citing authors

#	Article	IF	Citations
1	International Geomagnetic Reference Field: the thirteenth generation. Earth, Planets and Space, 2021, 73, .	2.5	319
2	Evidence for a new geomagnetic jerk in 2014. Geophysical Research Letters, 2015, 42, 7933-7940.	4.0	60
3	Improving the modeling of geomagnetically induced currents in Spain. Space Weather, 2017, 15, 691-703.	3.7	49
4	Assessing the hazard from geomagnetically induced currents to the entire high-voltage power network in Spain. Earth, Planets and Space, 2014, 66, .	2.5	47
5	Analysis of the Solar Flare Effects of 6 September 2017 in the Ionosphere and in the Earth's Magnetic Field Using Spherical Elementary Current Systems. Space Weather, 2018, 16, 1709-1720.	3.7	29
6	Space weather effects on Earth's environment associated to the 24â€“25 October 2011 geomagnetic storm. Space Weather, 2013, 11, 153-168.	3.7	27
7	Forcing the TIEGCM model with Birkeland currents from the Active Magnetosphere and Planetary Electrodynamics Response Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	24
8	Remote Geophysical Observatory in Antarctica with HF Data Transmission: A Review. Remote Sensing, 2014, 6, 7233-7259.	4.0	21
9	Behaviour of the quiet-day geomagnetic variation at Livingston Island and variability of the S q focus position in the South American-Antarctic Peninsula region. Earth, Planets and Space, 2010, 62, 297-307.	2.5	19
10	Use of spherical elementary currents to map the polar current systems associated with the geomagnetic sudden commencements on 2013 and 2015 St. Patrick's Day storms. Journal of Geophysical Research: Space Physics, 2017, 122, 194-211.	2.4	19
11	Remote Sensing and Skywave Digital Communication from Antarctica. Sensors, 2009, 9, 10136-10157.	3.8	11
12	An evaluation of the uncertainty associated with the measurement of the geomagnetic field with aD/Ifluxgate theodolite. Measurement Science and Technology, 2007, 18, 2143-2156.	2.6	9
13	Signs of a new geomagnetic jerk between 2019 and 2020 from Swarm and observatory data. Earth, Planets and Space, 2021, 73, .	2.5	9
14	New Detailed Modeling of GICs in the Spanish Power Transmission Grid. Space Weather, 2021, 19, e2021SW002805.	3.7	9
15	Conductivities consistent with Birkeland currents in the AMPEREâ€driven TIEâ€GCM. Journal of Geophysical Research: Space Physics, 2015, 120, 8045-8065.	2.4	8
16	Quantifying the Performance of Geomagnetically Induced Current Models. Space Weather, 2019, 17, 941-949.	3.7	8
17	A new approach to the hourly mean computation problem when dealing with missing data. Earth, Planets and Space, 2009, 61, 945-956.	2.5	7
18	Validating GIC Modeling in the Spanish Power Grid by Differential Magnetometry. Space Weather, 2021, 19, e2021SW002905.	3.7	7

#	Article	IF	Citations
19	Quality control of Ebro magnetic observatory using momentary values. Earth, Planets and Space, 2007, 59, 1187-1196.	2.5	5
20	A New Standalone Tool for DCâ€Equivalent Network Generation and GIC Calculation in Power Grids With Multiple Voltage Levels. Space Weather, 2022, 20, .	3.7	5
21	The Lehtinenâ€“Pirjola method modified for efficient modelling of geomagnetically induced currents in multiple voltage levels of a power network. Annales Geophysicae, 2022, 40, 205-215.	1.6	4
22	An automatic DI-flux at the Livingston Island geomagnetic observatory, Antarctica: requirements and lessons learned. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 269-277.	1.6	3
23	Automatic detection of Sfe: a proposal. Annales Geophysicae, 2017, 35, 799-804.	1.6	3
24	Bootstrapping Swarm and observatory data to generate candidates for the DGRF and IGRF-13. Earth, Planets and Space, 2020, 72, .	2.5	3
25	Including the Temporal Dimension in the SECS Technique. Space Weather, 2020, 18, e2020SW002491.	3.7	2