

Joan Torta

List of Publications by Year in descending order

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57
papers

2,047
citations

331670

21
h-index

243625

44
g-index

62
all docs

62
docs citations

62
times ranked

1545
citing authors

#	ARTICLE	IF	CITATIONS
1	International Geomagnetic Reference Field: the thirteenth generation. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	319
2	A geomagnetic field model for the Holocene based on archaeomagnetic and lava flow data. <i>Earth and Planetary Science Letters</i> , 2014, 388, 98-109.	4.4	280
3	A Matlab tool for archaeomagnetic dating. <i>Journal of Archaeological Science</i> , 2011, 38, 408-419.	2.4	177
4	A regional archeomagnetic model for Europe for the last 3000 years, SCHA.DIF.3K: Applications to archeomagnetic dating. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	130
5	Global empirical models of the density peak height and of the equivalent scale height for quiet conditions. <i>Advances in Space Research</i> , 2013, 52, 1756-1769.	2.6	77
6	Solar activity impact on the Earth's upper atmosphere. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A06.	3.3	72
7	Geomagnetically induced currents in a power grid of northeastern Spain. <i>Space Weather</i> , 2012, 10, .	3.7	70
8	Determination of equivalent current sources from spherical cap harmonic models of geomagnetic field variations. <i>Geophysical Journal International</i> , 1994, 118, 499-514.	2.4	69
9	Evidence for a new geomagnetic jerk in 2014. <i>Geophysical Research Letters</i> , 2015, 42, 7933-7940.	4.0	60
10	Proposal of new models of the bottom-side B0 and B1 parameters for IRI. <i>Advances in Space Research</i> , 2009, 43, 1825-1834.	2.6	52
11	Improving the modeling of geomagnetically induced currents in Spain. <i>Space Weather</i> , 2017, 15, 691-703.	3.7	49
12	Assessing the hazard from geomagnetically induced currents to the entire high-voltage power network in Spain. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	47
13	Regional modeling of the geomagnetic field in Europe from 6000 to 1000 B.C.. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	46
14	Analysis and modelling of the aeromagnetic anomalies of Gran Canaria (Canary Islands). <i>Earth and Planetary Science Letters</i> , 2003, 206, 601-616.	4.4	38
15	Solar flare effects at Ebre: Regular and reversed solar flare effects, statistical analysis (1953 to 1985), A global case study and a model of elliptical ionospheric currents. <i>Journal of Geophysical Research</i> , 1994, 99, 3945.	3.3	33
16	Behavior of the quiet day ionospheric current system in the European region. <i>Journal of Geophysical Research</i> , 1997, 102, 2483-2494.	3.3	31
17	Spherical cap harmonic analysis: a comment on its proper use for local gravity field representation. <i>Journal of Geodesy</i> , 1997, 71, 526-532.	3.6	31
18	Space weather effects on Earth's environment associated to the 24 th October 2011 geomagnetic storm. <i>Space Weather</i> , 2013, 11, 153-168.	3.7	27

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19	New representation of geomagnetic secular variation over restricted regions by means of spherical cap harmonic analysis: application to the case of Spain. <i>Physics of the Earth and Planetary Interiors</i> , 1992, 74, 209-217.	1.9	25
20	Spherical cap harmonics revisited and their relationship to ordinary spherical harmonics. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 935-941.	0.6	22
21	Initial SCHA.DI.00 regional archaeomagnetic model for Europe for the last 2000years. <i>Physics and Chemistry of the Earth</i> , 2008, 33, 596-608.	2.9	21
22	Remote Geophysical Observatory in Antarctica with HF Data Transmission: A Review. <i>Remote Sensing</i> , 2014, 6, 7233-7259.	4.0	21
23	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. <i>Earth, Planets and Space</i> , 2010, 62, 297-307.	2.5	19
24	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. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 194-211.	2.4	19
25	Solar flare effects at Ebre: Unidimensional physical, integrated model. <i>Journal of Geophysical Research</i> , 1994, 99, 23289.	3.3	18
26	New model alternatives for improving the representation of the core magnetic field of Antarctica. <i>Antarctic Science</i> , 2006, 18, 101-109.	0.9	18
27	Equivalent ionospheric currents for the 5 December 2006 solar flare effect determined from spherical cap harmonic analysis. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	18
28	Modelling by Spherical Cap Harmonic Analysis: A Literature Review. <i>Surveys in Geophysics</i> , 2020, 41, 201-247.	4.6	18
29	Vertical and oblique ionospheric soundings over a very long multihop HF radio link from polar to midlatitudes: Results and relationships. <i>Radio Science</i> , 2009, 44, .	1.6	17
30	On the derivation of the Earth's conductivity structure by means of spherical cap harmonic analysis. <i>Geophysical Journal International</i> , 1996, 127, 441-451.	2.4	16
31	The first Antarctic geomagnetic Reference Model (ARM). <i>Geophysical Research Letters</i> , 2002, 29, 33-1-33-4.	4.0	13
32	SPHERICAL CAP HARMONIC ANALYSIS OF THE GEOMAGNETIC FIELD WITH APPLICATION FOR AERONAUTICAL MAPPING. , 2006, , 291-307.		13
33	A simple approach to the transformation of spherical harmonic models under coordinate system rotation. <i>Geophysical Journal International</i> , 1996, 126, 263-270.	2.4	12
34	An inspection of the long-term behaviour of the range of the daily geomagnetic field variation from comprehensive modelling. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1497-1510.	1.6	12
35	A Geomagnetic Reference Field for Spain at 1990.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993, 45, 573-588.	0.9	12
36	SHA vs. SCHA for Modelling Secular Variation in a Small Region Such as Italy. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, 359-371.	0.9	11

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37	A model of the secular change of the geomagnetic field for Antarctica. <i>Tectonophysics</i> , 2002, 347, 179-187.	2.2	11
38	A Regional Archaeomagnetic Model for the Palaeointensity in Europe for the last 2000 Years and its Implications for Climatic Change. <i>Pure and Applied Geophysics</i> , 2008, 165, 1209-1225.	1.9	10
39	An evaluation of the uncertainty associated with the measurement of the geomagnetic field with aD/fluxgate theodolite. <i>Measurement Science and Technology</i> , 2007, 18, 2143-2156.	2.6	9
40	Evaluation of using R-SCHA to simultaneously model main field and secular variation multilevel geomagnetic data for the North Atlantic. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 263, 55-68.	1.9	9
41	Signs of a new geomagnetic jerk between 2019 and 2020 from Swarm and observatory data. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	9
42	New Detailed Modeling of GICs in the Spanish Power Transmission Grid. <i>Space Weather</i> , 2021, 19, e2021SW002805.	3.7	9
43	Geomagnetic secular variation over Spain 1970â€“1988 by means of spherical cap harmonic analysis. <i>Physics of the Earth and Planetary Interiors</i> , 1991, 68, 65-75.	1.9	8
44	Improving total field geomagnetic secular variation modeling from a new set of cross-over marine data. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 216, 21-31.	1.9	8
45	Quantifying the Performance of Geomagnetically Induced Current Models. <i>Space Weather</i> , 2019, 17, 941-949.	3.7	8
46	Validating GIC Modeling in the Spanish Power Grid by Differential Magnetometry. <i>Space Weather</i> , 2021, 19, e2021SW002905.	3.7	7
47	Automatic measurement of magnetic records on photographic paper. <i>Computers and Geosciences</i> , 1996, 22, 359-368.	4.2	6
48	Italian Geomagnetic Reference Field (ITGRF): update for 2000 and secular variation model up to 2005 by autoregressive forecasting. <i>Annals of Geophysics</i> , 2009, 46, .	1.0	6
49	A normal reference field for the Ionian sea area. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 433-438.	0.6	5
50	On the observation of magnetic events on broad-band seismometers. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	5
51	A New Standalone Tool for DCâ€™Equivalent Network Generation and GIC Calculation in Power Grids With Multiple Voltage Levels. <i>Space Weather</i> , 2022, 20, .	3.7	5
52	Simple additional constraints on regional models of the geomagnetic secular variation field. <i>Physics of the Earth and Planetary Interiors</i> , 1996, 97, 15-21.	1.9	3
53	An automatic DI-flux at the Livingston Island geomagnetic observatory, Antarctica: requirements and lessons learned. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2017, 6, 269-277.	1.6	3
54	Bootstrapping Swarm and observatory data to generate candidates for the DGRF and IGRF-13. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	3

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55	A comparison of the LPIM-COSMIC F2 peak parameters determinations against the IRI(CCIR). Advances in Space Research, 2015, 55, 2012-2019.	2.6	2
56	Including the Temporal Dimension in the SECS Technique. Space Weather, 2020, 18, e2020SW002491.	3.7	2
57	A Regional Archaeomagnetic Model for the Palaeointensity in Europe for the last 2000 Years and its Implications for Climatic Change. , 2008, , 1209-1225.		0