

# 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	A New Standalone Tool for DC-Equivalent Network Generation and GIC Calculation in Power Grids With Multiple Voltage Levels. <i>Space Weather</i> , 2022, 20, .	3.7	5
2	International Geomagnetic Reference Field: the thirteenth generation. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	319
3	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
4	New Detailed Modeling of GICs in the Spanish Power Transmission Grid. <i>Space Weather</i> , 2021, 19, e2021SW002805.	3.7	9
5	Validating GIC Modeling in the Spanish Power Grid by Differential Magnetometry. <i>Space Weather</i> , 2021, 19, e2021SW002905.	3.7	7
6	Modelling by Spherical Cap Harmonic Analysis: A Literature Review. <i>Surveys in Geophysics</i> , 2020, 41, 201-247.	4.6	18
7	On the observation of magnetic events on broad-band seismometers. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	5
8	Including the Temporal Dimension in the SECS Technique. <i>Space Weather</i> , 2020, 18, e2020SW002491.	3.7	2
9	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
10	Quantifying the Performance of Geomagnetically Induced Current Models. <i>Space Weather</i> , 2019, 17, 941-949.	3.7	8
11	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
12	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
13	Improving the modeling of geomagnetically induced currents in Spain. <i>Space Weather</i> , 2017, 15, 691-703.	3.7	49
14	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
15	Evidence for a new geomagnetic jerk in 2014. <i>Geophysical Research Letters</i> , 2015, 42, 7933-7940.	4.0	60
16	A comparison of the LPIM-COSMIC F2 peak parameters determinations against the IRI(CCIR). <i>Advances in Space Research</i> , 2015, 55, 2012-2019.	2.6	2
17	Remote Geophysical Observatory in Antarctica with HF Data Transmission: A Review. <i>Remote Sensing</i> , 2014, 6, 7233-7259.	4.0	21
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Space weather effects on Earth's environment associated to the 24 <sup>th</sup> October 2011 geomagnetic storm. <i>Space Weather</i> , 2013, 11, 153-168.	3.7	27
21	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
22	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
23	Solar activity impact on the Earth's upper atmosphere. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A06.	3.3	72
24	Geomagnetically induced currents in a power grid of northeastern Spain. <i>Space Weather</i> , 2012, 10, .	3.7	70
25	A Matlab tool for archaeomagnetic dating. <i>Journal of Archaeological Science</i> , 2011, 38, 408-419.	2.4	177
26	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
27	Regional modeling of the geomagnetic field in Europe from 6000 to 1000 B.C.. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	46
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	A Regional Archaeomagnetic Model for the Palaeointensity in Europe for the last 2000 Years and its Implications for Climatic Change. , 2008, , 1209-1225.		0

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37	An evaluation of the uncertainty associated with the measurement of the geomagnetic field with aD/lfluxgate theodolite. Measurement Science and Technology, 2007, 18, 2143-2156.	2.6	9
38	New model alternatives for improving the representation of the core magnetic field of Antarctica. Antarctic Science, 2006, 18, 101-109.	0.9	18
39	SPHERICAL CAP HARMONIC ANALYSIS OF THE GEOMAGNETIC FIELD WITH APPLICATION FOR AERONAUTICAL MAPPING. , 2006, , 291-307.		13
40	Analysis and modelling of the aeromagnetic anomalies of Gran Canaria (Canary Islands). Earth and Planetary Science Letters, 2003, 206, 601-616.	4.4	38
41	The first Antarctic geomagnetic Reference Model (ARM). Geophysical Research Letters, 2002, 29, 33-1-33-4.	4.0	13
42	A model of the secular change of the geomagnetic field for Antarctica. Tectonophysics, 2002, 347, 179-187.	2.2	11
43	A normal reference field for the Ionian sea area. Physics and Chemistry of the Earth, 1999, 24, 433-438.	0.6	5
44	Spherical cap harmonics revisited and their relationship to ordinary spherical harmonics. Physics and Chemistry of the Earth, 1999, 24, 935-941.	0.6	22
45	Behavior of the quiet day ionospheric current system in the European region. Journal of Geophysical Research, 1997, 102, 2483-2494.	3.3	31
46	SHA vs. SCHA for Modelling Secular Variation in a Small Region Such as Italy. Journal of Geomagnetism and Geoelectricity, 1997, 49, 359-371.	0.9	11
47	Spherical cap harmonic analysis: a comment on its proper use for local gravity field representation. Journal of Geodesy, 1997, 71, 526-532.	3.6	31
48	Simple additional constraints on regional models of the geomagnetic secular variation field. Physics of the Earth and Planetary Interiors, 1996, 97, 15-21.	1.9	3
49	Automatic measurement of magnetic records on photographic paper. Computers and Geosciences, 1996, 22, 359-368.	4.2	6
50	On the derivation of the Earth's conductivity structure by means of spherical cap harmonic analysis. Geophysical Journal International, 1996, 127, 441-451.	2.4	16
51	A simple approach to the transformation of spherical harmonic models under coordinate system rotation. Geophysical Journal International, 1996, 126, 263-270.	2.4	12
52	Determination of equivalent current sources from spherical cap harmonic models of geomagnetic field variations. Geophysical Journal International, 1994, 118, 499-514.	2.4	69
53	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. Journal of Geophysical Research, 1994, 99, 3945.	3.3	33
54	Solar flare effects at Ebre: Unidimensional physical, integrated model. Journal of Geophysical Research, 1994, 99, 23289.	3.3	18

#	ARTICLE	IF	CITATIONS
55	A Geomagnetic Reference Field for Spain at 1990.. Journal of Geomagnetism and Geoelectricity, 1993, 45, 573-588.	0.9	12
56	New representation of geomagnetic secular variation over restricted regions by means of spherical cap harmonic analysis: application to the case of Spain. Physics of the Earth and Planetary Interiors, 1992, 74, 209-217.	1.9	25
57	Geomagnetic secular variation over Spain 1970â€“1988 by means of spherical cap harmonic analysis. Physics of the Earth and Planetary Interiors, 1991, 68, 65-75.	1.9	8