Angelo De Santis

List of Publications by Year
in descending order

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102 papers	2,518 citations	186265 28 h-index	243625 44 g-index
138 all docs	138 docs citations	138 times ranked	1735 citing authors

#	Article	IF	Citations
1	A geomagnetic field model for the Holocene based on archaeomagnetic and lava flow data. Earth and Planetary Science Letters, 2014, 388, 98-109.	4.4	280
2	Inherent powerâ€law behavior of magnetic field power spectra from a Spector and Grant ensemble. Geophysics, 1997, 62, 1143-1150.	2.6	132
3	The Gutenberg-Richter Law and Entropy of Earthquakes: Two Case Studies in Central Italy. Bulletin of the Seismological Society of America, 2011, 101, 1386-1395.	2.3	85
4	Precursory worldwide signatures of earthquake occurrences on Swarm satellite data. Scientific Reports, 2019, 9, 20287.	3.3	85
5	Potential earthquake precursory pattern from space: The 2015 Nepal event as seen by magnetic Swarm satellites. Earth and Planetary Science Letters, 2017, 461, 119-126.	4.4	73
6	The South Atlantic Anomaly: The Key for a Possible Geomagnetic Reversal. Frontiers in Earth Science, 2016, 4, .	1.8	67
7	Multi precursors analysis associated with the powerful Ecuador (MW= 7.8) earthquake of 16 April 2016 using Swarm satellites data in conjunction with other multi-platform satellite and ground data. Advances in Space Research, 2018, 61, 248-263.	2.6	64
8	Possible Lithosphere-Atmosphere-Ionosphere Coupling effects prior to the 2018 Mwâ€¯=â€¯7.5 Indonesia earthquake from seismic, atmospheric and ionospheric data. Journal of Asian Earth Sciences, 2020, 188, 104097.	2.3	57
9	Secular variation in Italy from historical geomagnetic field measurements. Physics of the Earth and Planetary Interiors, 1992, 73, 206-221.	1.9	56
10	Geospace perturbations induced by the Earth: The state of the art and future trends. Physics and Chemistry of the Earth, 2015, 85-86, 17-33.	2.9	56
11	Magnetoreception: an unavoidable step for plant evolution?. Trends in Plant Science, 2014, 19, 1-4.	8.8	51
12	Magnetic Field and Electron Density Data Analysis from Swarm Satellites Searching for Ionospheric Effects by Great Earthquakes: 12 Case Studies from 2014 to 2016. Atmosphere, 2019, 10, 371.	2.3	46
13	NEMO-SN1 Abyssal Cabled Observatory in the Western Ionian Sea. IEEE Journal of Oceanic Engineering, 2013, 38, 358-374.	3.8	45
14	Ionospheric Response Over Brazil to the August 2018 Geomagnetic Storm as Probed by CSESâ€01 and Swarm Satellites and by Local Groundâ€Based Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028368.	2.4	45
15	Anomalous seismo-LAI variations potentially associated with the 2017 Mwâ€¯=â€¯7.3 Sarpol-e Zahab (Iran) earthquake from Swarm satellites, GPS-TEC and climatological data. Advances in Space Research, 2019, 64, 143-158.	2.6	43
16	A Multi-parametric Climatological Approach to Study the 2016 Amatriceâ€“Norcia (Central Italy) Earthquake Preparatory Phase. Pure and Applied Geophysics, 2017, 174, 3673-3688.	1.9	41
17	Conventional spherical harmonic analysis for regional modelling of the geomagnetic field. Geophysical Research Letters, 1992, 19, 1065-1067.	4.0	39
18	The 2009 L'Aquila (Central Italy) seismic sequence as a chaotic process. Tectonophysics, 2010, 496, 44-52.	2.2	38

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19	Pre-earthquake chain processes detected from ground to satellite altitude in preparation of the 2016â€“2017 seismic sequence in Central Italy. Remote Sensing of Environment, 2019, 229, 93-99.	11.0	37
20	Geosphere coupling and hydrothermal anomalies before the 2009 <i>M</i>_wÂ6.3 L'Aquila earthquake in Italy. Natural Hazards and Earth System Sciences, 2016, 16, 1859-1880.	3.6	34
21	Integrating Pre-Earthquake Signatures From Different Precursor Tools. IEEE Access, 2021, 9, 33268-33283.	4.2	33
22	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
23	The Role of Geomagnetic Cues in Green Turtle Open Sea Navigation. PLoS ONE, 2011, 6, e26672.	2.5	31
24	Magnetic Field and Electron Density Anomalies from Swarm Satellites Preceding the Major Earthquakes of the 2016â€“2017 Amatrice-Norcia (Central Italy) Seismic Sequence. Pure and Applied Geophysics, 2020, 177, 305-319.	1.9	31
25	A Multiparametric Approach to Study the Preparation Phase of the 2019 M7.1 Ridgecrest (California,) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	31
26	GEOSTAR: a GEophysical and Oceanographic STation for Abyssal Research. Physics of the Earth and Planetary Interiors, 1998, 108, 175-183.	1.9	30
27	Spatial and temporal spectra of the geomagnetic field and their scaling properties. Physics of the Earth and Planetary Interiors, 2003, 135, 125-134.	1.9	30
28	Quasi-synchronous multi-parameter anomalies associated with the 2010â€“2011 New Zealand earthquake sequence. Natural Hazards and Earth System Sciences, 2012, 12, 1059-1072.	3.6	29
29	Geosystemics View of Earthquakes. Entropy, 2019, 21, 412.	2.2	29
30	Underwater geophysical monitoring for European Multidisciplinary Seafloor and water column Observatories. Journal of Marine Systems, 2014, 130, 12-30.	2.1	28
31	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
32	Atherosclerotic Plaque Formation and Risk Factors. International Journal of Immunopathology and Pharmacology, 2003, 16, 25-31.	2.1	25
33	Toward a possible next geomagnetic transition?. Natural Hazards and Earth System Sciences, 2013, 13, 3395-3403.	3.6	24
34	Worldwide Statistical Correlation of Eight Years of Swarm Satellite Data with M5.5+ Earthquakes: New Hints about the Preseismic Phenomena from Space. Remote Sensing, 2022, 14, 2649.	4.0	24
35	Surface latent heat flux anomalies before the M S 7.1 New Zealand earthquake 2010. Science Bulletin, 2011, 56, 3273.	1.7	23
36	Some possible evidence for a chaotic geomagnetic field from observational data. Physics of the Earth and Planetary Interiors, 1997, 99, 207-220.	1.9	22

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37	Information content and K-entropy of the present geomagnetic field. Earth and Planetary Science Letters, 2004, 218, 269-275.	4.4	22
38	Accelerating moment release revisited: Examples of application to Italian seismic sequences. Tectonophysics, 2015, 639, 82-98.	2.2	22
39	New perspectives in the study of the Earthâ€™s magnetic field and climate connection: The use of transfer entropy. PLoS ONE, 2018, 13, e0207270.	2.5	22
40	Spherical cap harmonic analysis applied to regional field modelling for Italy.. Journal of Geomagnetism and Geoelectricity, 1990, 42, 1019-1036.	0.9	21
41	Source ambiguity from an estimation of the scaling exponent of potential field power spectra. Geophysical Journal International, 2000, 140, 311-323.	2.4	20
42	Mission results from the first GEOSTAR observatory (Adriatic Sea, 1998). Earth, Planets and Space, 2003, 55, 361-373.	2.5	20
43	Geomagnetic jerks as chaotic fluctuations of the Earth's magnetic field. Geochemistry, Geophysics, Geosystems, 2013, 14, 839-850.	2.5	20
44	The Marsili Volcanic Seamount (Southern Tyrrhenian Sea): A Potential Offshore Geothermal Resource. Energies, 2014, 7, 4068-4086.	3.1	19
45	Is there a one-to-one correspondence between ionospheric anomalies and large earthquakes along Longmenshan faults?. Annales Geophysicae, 2014, 32, 187-196.	1.6	19
46	Ionospheric anomalies detected by ionosonde and possibly related to crustal earthquakes in Greece. Annales Geophysicae, 2018, 36, 361-371.	1.6	19
47	Multi-Parametric Climatological Analysis Associated with Global Significant Volcanic Eruptions During 2002â€“2017. Pure and Applied Geophysics, 2019, 176, 3629-3647.	1.9	19
48	New model alternatives for improving the representation of the core magnetic field of Antarctica. Antarctic Science, 2006, 18, 101-109.	0.9	18
49	How persistent is the present trend of the geomagnetic field to decay and, possibly, to reverse?. Physics of the Earth and Planetary Interiors, 2007, 162, 217-226.	1.9	17
50	Re-orientation in clock-shifted homing pigeons subjected to a magnetic disturbance: a study with GPS data loggers. Behavioral Ecology and Sociobiology, 2009, 64, 289-296.	1.4	17
51	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
52	Geomagnetic South Atlantic Anomaly and global sea level rise: A direct connection?. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 74, 129-135.	1.6	16
53	Swarm-TEC Satellite Measurements as a Potential Earthquake Precursor Together With Other Swarm and CSES Data: The Case of Mw7.6 2019 Papua New Guinea Seismic Event. Frontiers in Earth Science, 2022, 10, .	1.8	16
54	Geomagnetic depth sounding in the Northern Apennines (Italy). Earth, Planets and Space, 2001, 53, 385-396.	2.5	14

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55	A few earthquake conundrums resolved. Journal of Asian Earth Sciences, 2013, 62, 501-509.	2.3	14
56	Developing a Deep Learning-Based Detector of Magnetic, Ne, Te and TEC Anomalies from Swarm Satellites: The Case of Mw 7.1 2021 Japan Earthquake. Remote Sensing, 2022, 14, 1582.	4.0	14
57	NONLINEAR VARIABILITY IN THE GEOMAGNETIC SECULAR VARIATION OF THE LAST 150 YEARS. Fractals, 2002, 10, 297-303.	3.7	13
58	Revised Accelerated Moment Release Under Test: Fourteen Worldwide Real Case Studies in 2014â€“2018 and Simulations. Pure and Applied Geophysics, 2020, 177, 4057-4087.	1.9	13
59	Considerations and proposal for a best utilization of IGRF over areas including a geomagnetic observatory. Physics of the Earth and Planetary Interiors, 1987, 48, 379-385.	1.9	12
60	A simple approach to the transformation of spherical harmonic models under coordinate system rotation. Geophysical Journal International, 1996, 126, 263-270.	2.4	12
61	Co-Seismic Magnetic Field Perturbations Detected by Swarm Three-Satellite Constellation. Remote Sensing, 2020, 12, 1166.	4.0	12
62	A Geomagnetic Reference Field for Spain at 1990.. Journal of Geomagnetism and Geoelectricity, 1993, 45, 573-588.	0.9	12
63	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
64	A model of the secular change of the geomagnetic field for Antarctica. Tectonophysics, 2002, 347, 179-187.	2.2	11
65	Swarm Satellite Magnetic Field Data Analysis Prior to 2019 Mw = 7.1 Ridgecrest (California, USA) Earthquake. Geosciences (Switzerland), 2020, 10, 502.	2.2	11
66	Multi-Parametric Climatological Analysis Reveals the Involvement of Fluids in the Preparation Phase of the 2008 Ms 8.0 Wenchuan and 2013 Ms 7.0 Lushan Earthquakes. Remote Sensing, 2020, 12, 1663.	4.0	11
67	Pre-Earthquake Ionospheric Perturbation Identification Using CSES Data via Transfer Learning. Frontiers in Environmental Science, 2021, 9, .	3.3	11
68	Regional spherical modeling of 2-D functions: The case of the critical frequency of the F2 ionospheric layer. Computers and Geosciences, 1994, 20, 849-871.	4.2	10
69	Ergodicity of the recent geomagnetic field. Physics of the Earth and Planetary Interiors, 2011, 186, 103-110.	1.9	10
70	Geomagnetic jerks characterization via spectral analysis. Solid Earth, 2012, 3, 131-148.	2.8	10
71	Structure, Materials and Processes in the Earthâ€™s Core and Mantle. Surveys in Geophysics, 2022, 43, 263-302.	4.6	10
72	SafeNet: SwArm for Earthquake Perturbations Identification Using Deep Learning Networks. Remote Sensing, 2021, 13, 5033.	4.0	10

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73	Shannon information of the geomagnetic field for the past 7000 years. Nonlinear Processes in Geophysics, 2010, 17, 77-84.	1.3	9
74	Equivalent Monopole Source of the Geomagnetic South Atlantic Anomaly. Pure and Applied Geophysics, 2010, 167, 339-347.	1.9	8
75	Observing Volcanoes from the Seafloor in the Central Mediterranean Area. Remote Sensing, 2016, 8, 298.	4.0	8
76	A direct divider method for self-affine fractal profiles and surfaces. Geophysical Research Letters, 1997, 24, 2099-2102.	4.0	7
77	A Fractal Interpretation of the Topography of the Geomagnetic Scalar Potential at the Core-mantle Boundary. Pure and Applied Geophysics, 1997, 149, 747-759.	1.9	7
78	Magnetic transfer function entropy and the 2009 <i>M</i>_w = 6.3 L'Aquila earthquake (Central Italy). Nonlinear Processes in Geophysics, 2012, 19, 401-409.	1.3	7
79	Long-term variations of the upper atmosphere parameters on Rome ionosonde observations and their interpretation. Journal of Space Weather and Space Climate, 2017, 7, A21.	3.3	7
80	The First Pi2 Pulsation Observed by China Seismo-Electromagnetic Satellite. Remote Sensing, 2020, 12, 2300.	4.0	7
81	Is the Apparent Correlation between Solar-Geomagnetic Activity and Occurrence of Powerful Earthquakes a Casual Artifact?. Atmosphere, 2022, 13, 1131.	2.3	7
82	Active EM sounding for early warning of earthquakes and volcanic eruptions. Physics of the Earth and Planetary Interiors, 2003, 139, 187-195.	1.9	6
83	Geomagnetic and ionospheric data analysis over Antarctica: a contribution to the long term trends investigation. Annales Geophysicae, 2008, 26, 1173-1179.	1.6	6
84	Two geomagnetic regional models for Albania and south-east Italy from 1990 to 2010 with prediction to 2012 and comparison with IGRF-11. Earth, Planets and Space, 2010, 62, 833-841.	2.5	6
85	Geosystemics: A Systemic View of the Earthâ€™s Magnetic Field and the Possibilities for an Imminent Geomagnetic Transition. Pure and Applied Geophysics, 2015, 172, 75-89.	1.9	6
86	Using â€œdominoâ€•model to study the secular variation of the geomagnetic dipolar moment. Physics of the Earth and Planetary Interiors, 2015, 242, 9-23.	1.9	6
87	Ionosonde Data Analysis in Relation to the 2016 Central Italian Earthquakes. Geosciences (Switzerland), 2020, 10, 354.	2.2	6
88	Characteristic periods of the paleosecular variation of the Earth's magnetic field during the Holocene from global paleoreconstructions. Physics of the Earth and Planetary Interiors, 2021, 312, 106656.	1.9	5
89	Initial scalar lithospheric magnetic anomaly map of China and surrounding regions derived from CSES satellite data. Science China Technological Sciences, 2021, 64, 1118-1126.	4.0	5
90	A magnetovariational study in Sardinia. Physics of the Earth and Planetary Interiors, 1991, 66, 92-100.	1.9	4

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91	Antarctic geomagnetic reference model updated to 2010 and provisionally to 2012. Tectonophysics, 2013, 585, 13-25.	2.2	4
92	South Atlantic Anomaly Areal Extent as a Possible Indicator of Geomagnetic Jerks in the Satellite Era. Frontiers in Earth Science, 2021, 8, .	1.8	4
93	Geosystemics, Entropy and Criticality of Earthquakes: A Vision of Our Planet and a Key of Access. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 3-20.	0.2	4
94	Comparison of geomagnetic planetary reference fields over Italy. Physics of the Earth and Planetary Interiors, 1985, 37, 35-45.	1.9	3
95	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
96	Power-law frequency distribution of H/V spectral ratio of seismic signals: Evidence for a critical crust. Earth, Planets and Space, 2012, 64, 49-54.	2.5	3
97	Insights into pre-reversal paleosecular variation from stochastic models. Frontiers in Earth Science, 2015, 3, .	1.8	3
98	Statistical analysis of the oceanic magnetic anomaly data. Physics of the Earth and Planetary Interiors, 2018, 284, 28-35.	1.9	2
99	Repeat-station surveys: implications from chaos and ergodicity of the recent geomagnetic field. Annals of Geophysics, 2013, 56, .	1.0	2
100	Regional latitudinal magnetic and ionospheric effects of the March 13, 1989 storm over Italy. Canadian Journal of Physics, 1992, 70, 566-568.	1.1	0
101	Electrical conductivity investigation of the Corso-Sardinian microplate area. Physics of the Earth and Planetary Interiors, 1993, 80, 169-189.	1.9	0
102	Editorial of Special Issue â€œDetecting Geospace Perturbations Caused by Earthâ€• Geosciences (Switzerland), 2021, 11, 496.	2.2	0