Jeffrey J Love

List of Publications by Year
in descending order

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73	2,180	186265	254184
papers	citations	28	43
		h-index	g-index

88	88	88	1404
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856.	3.7	149
2	An International Network of Magnetic Observatories. Eos, 2013, 94, 373-374.	0.1	91
3	On the reported magnetic precursor of the 1989 Loma Prieta earthquake. Physics of the Earth and Planetary Interiors, 2009, 173, 207-215.	1.9	78
4	Extreme geomagnetic storms: Probabilistic forecasts and their uncertainties. Space Weather, 2017, 15, 53-64.	3.7	77
5	Magnetic monitoring of earth and space. Physics Today, 2008, 61, 31-37.	0.3	76
6	On the lognormality of historical magnetic storm intensity statistics: Implications for extremeâ€event probabilities. Geophysical Research Letters, 2015, 42, 6544-6553.	4.0	72
7	Mapping geoelectric fields during magnetic storms: Synthetic analysis of empirical United States impedances. Geophysical Research Letters, 2015, 42, 10,160.	4.0	70
8	Paleomagnetic volcanic data and geometric regularity of reversals and excursions. Journal of Geophysical Research, 1998, 103, 12435-12452.	3.3	67
9	Revised <I>D_{st}</I> and the epicycles of magnetic disturbance: 1958â€“2007. Annales Geophysicae, 2009, 27, 3101-3131.	1.6	64
10	Methodology for timeâ€domain estimation of storm time geoelectric fields using the 3â€D magnetotelluric response tensors. Space Weather, 2017, 15, 874-894.	3.7	59
11	Intensity and Impact of the New York Railroad Superstorm of May 1921. Space Weather, 2019, 17, 1281-1292.	3.7	55
12	On the reported magnetic precursor of the 1993 Guam earthquake. Geophysical Research Letters, 2009, 36, .	4.0	53
13	Credible occurrence probabilities for extreme geophysical events: Earthquakes, volcanic eruptions, magnetic storms. Geophysical Research Letters, 2012, 39, .	4.0	51
14	Gaussian statistics for palaeomagnetic vectors. Geophysical Journal International, 2003, 152, 515-565.	2.4	46
15	Calculation of Voltages in Electric Power Transmission Lines During Historic Geomagnetic Storms: An Investigation Using Realistic Earth Impedances. Space Weather, 2018, 16, 185-195.	3.7	45
16	A database for the Matuyama-Brunhes magnetic reversal. Physics of the Earth and Planetary Interiors, 1997, 103, 207-245.	1.9	43
17	Geoelectric Hazard Maps for the Midâ€Atlantic United States: 100 Year Extreme Values and the 1989 Magnetic Storm. Geophysical Research Letters, 2018, 45, 5-14.	4.0	42
18	On the reported ionospheric precursor of the 1999 Hector Mine, California earthquake. Geophysical Research Letters, 2012, 39, .	4.0	41

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19	Kinematic dynamo action in a sphere. I. Effects of differential rotation and meridional circulation on solutions with axial dipole symmetry. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 1333-1353.	2.1	40
20	Kinematic dynamo action in a sphere. II. Symmetry selection. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 1669-1683.	2.1	40
21	Geoelectric hazard maps for the continental United States. Geophysical Research Letters, 2016, 43, 9415-9424.	4.0	38
22	A critique of frozen-flux inverse modelling of a nearly steady geodynamo. Geophysical Journal International, 1999, 138, 353-365.	2.4	36
23	Statistical assessment of preferred transitional VGP longitudes based on palaeomagnetic lava data. Geophysical Journal International, 2000, 140, 211-221.	2.4	36
24	Spring-fall asymmetry of substorm strength, geomagnetic activity and solar wind: Implications for semiannual variation and solar hemispheric asymmetry. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	36
25	The USGS Geomagnetism Program and Its Role in Space Weather Monitoring. Space Weather, 2011, 9, .	3.7	36
26	USGS 1-min Dst index. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 323-334.	1.6	35
27	The extreme space weather event in September 1909. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4083-4099.	4.4	35
28	Insignificant solarâ€terrestrial triggering of earthquakes. Geophysical Research Letters, 2013, 40, 1165-1170.	4.0	33
29	On the Intensity of the Magnetic Superstorm of September 1909. Space Weather, 2019, 17, 37-45.	3.7	31
30	Movie-maps of low-latitude magnetic storm disturbance. Space Weather, 2010, 8, n/a-n/a.	3.7	28
31	A 100â€year Geoelectric Hazard Analysis for the U.S. Highâ€Voltage Power Grid. Space Weather, 2020, 18, e2019SW002329.	3.7	28
32	Paleointensity in Hawaiian Scientific Drilling Project Hole (HSDP2): Results from submarine basaltic glass. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	26
33	Global statistical maps of extremeâ€event magnetic observatory 1Âmin first differences in horizontal intensity. Geophysical Research Letters, 2016, 43, 4126-4135.	4.0	26
34	The magnetic tides of Honolulu. Geophysical Journal International, 2014, 197, 1335-1353.	2.4	25
35	Preferred VGP paths during geomagnetic polarity reversals: Symmetry considerations. Geophysical Research Letters, 1998, 25, 1079-1082.	4.0	23
36	Magnetic Storms and Induction Hazards. Eos, 2014, 95, 445-446.	0.1	23

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37	Palaeomagnetic secular variation as a function of intensity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 1191-1223.	3.4	21
38	Extremeâ€Value Geoelectric Amplitude and Polarization Across the Northeast United States. Space Weather, 2019, 17, 379-395.	3.7	20
39	Numerical Simulations of the Geospace Response to the Arrival of an Idealized Perfect Interplanetary Coronal Mass Ejection. Space Weather, 2021, 19, e2020SW002489.	3.7	20
40	Characteristics of the white-light source in the 1981 April 24 solar flare. Astrophysical Journal, 1985, 290, L45.	4.5	20
41	Geomagnetic detection of the sectorial solar magnetic field and the historical peculiarity of minimum 23â€“24. Geophysical Research Letters, 2012, 39, .	4.0	19
42	The Electric Storm of November 1882. Space Weather, 2018, 16, 37-46.	3.7	17
43	Secular trends in storm-level geomagnetic activity. Annales Geophysicae, 2011, 29, 251-262.	1.6	15
44	Long-term biases in geomagnetic <i>K</i> and <i>aa</i> indices. Annales Geophysicae, 2011, 29, 1365-1375.	1.6	15
45	Time causal operational estimation of electric fields induced in the Earth's lithosphere during magnetic storms. Geophysical Research Letters, 2014, 41, 2266-2274.	4.0	15
46	Some Experiments in Extremeâ€Value Statistical Modeling of Magnetic Superstorm Intensities. Space Weather, 2020, 18, e2019SW002255.	3.7	15
47	Dynamos driven by poloidal flow exist. Geophysical Research Letters, 1996, 23, 857-860.	4.0	14
48	Dynamo action and the nearly axisymmetric magnetic field of Saturn. Geophysical Research Letters, 2000, 27, 2889-2892.	4.0	14
49	Are secular correlations between sunspots, geomagnetic activity, and global temperature significant?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	14
50	On a report that the 2012 <i>M</i> 6.0 earthquake in Italy was predicted after seeing an unusual cloud formation. Natural Hazards and Earth System Sciences, 2015, 15, 1061-1068.	3.6	14
51	Geoelectric Hazard Maps for the Pacific Northwest. Space Weather, 2018, 16, 1114-1127.	3.7	14
52	On the insignificance of Herschel's sunspot correlation. Geophysical Research Letters, 2013, 40, 4171-4176.	4.0	12
53	Extremeâ€Event Magnetic Storm Probabilities Derived From Rank Statistics of Historical Dst Intensities for Solar Cycles 14â€“24. Space Weather, 2021, 19, e2020SW002579.	3.7	12
54	Magnetotelluric Sampling and Geoelectric Hazard Estimation: Are Nationalâ€Scale Surveys Sufficient?. Space Weather, 2021, 19, e2020SW002693.	3.7	11

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55	Magnetic Indices. , 2007, , 509-512.		11
56	On the anisotropy of secular variation deduced from paleomagnetic volcanic data. Journal of Geophysical Research, 2000, 105, 5799-5816.	3.3	10
57	Observatory geoelectric fields induced in a two-layer lithosphere during magnetic storms. Earth, Planets and Space, 2015, 67, .	2.5	9
58	Geoelectric hazard assessment: the differences of geoelectric responses during magnetic storms within common physiographic zones. Earth, Planets and Space, 2018, 70, .	2.5	9
59	Down to Earth With an Electric Hazard From Space. Space Weather, 2017, 15, 658-662.	3.7	9
60	Missing data and the accuracy of magnetic-observatory hour means. Annales Geophysicae, 2009, 27, 3601-3610.	1.6	8
61	Geoelectric monitoring at the Boulder magnetic observatory. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 447-452.	1.6	8
62	Mapping a Magnetic Superstorm: March 1989 Geoelectric Hazards and Impacts on United States Power Systems. Space Weather, 2022, 20, .	3.7	8
63	Sunspot random walk and 22â€year variation. Geophysical Research Letters, 2012, 39, .	4.0	6
64	Realâ€time geomagnetic monitoring for space weatherâ€related applications: Opportunities and challenges. Space Weather, 2017, 15, 820-827.	3.7	6
65	Reversals and excursions of the geodynamo. Astronomy and Geophysics, 1999, 40, 6.14-6.19.	0.2	5
66	Problem of the Loveâ€Gannon relation between the asymmetric disturbance field and Dst. Journal of Geophysical Research, 2012, 117, .	3.3	5
67	Averaging and sampling for magnetic-observatory hourly data. Annales Geophysicae, 2010, 28, 2079-2096.	1.6	4
68	Statistical modeling of storm-levelKpoccurrences. Geophysical Research Letters, 2006, 33, .	4.0	3
69	Statistical modeling of storm level Kp occurrences: Solar cycle modulation. Space Weather, 2007, 5, .	3.7	3
70	Extreme-Event Geoelectric Hazard Maps. , 2018, , 209-230.		3
71	Down to Earth With Nuclear Electromagnetic Pulse: Realistic Surface Impedance Affects Mapping of the E3 Geoelectric Hazard. Earth and Space Science, 2021, 8, e2021EA001792.	2.6	3
72	Correction to â€œPaleointensity in Hawaiian Scientific Drilling Project Hole (HSDP2): Results from submarine basaltic glassâ€. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	2.5	0

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73	John B. â€œJackâ€•Townshend (1927-2012). Eos, 2012, 93, 524-525.	0.1	0