Jeffrey J Love

List of Publications by Year
in descending order

73 papers	2,180 citations	186265 28 h-index	254184 43 g-index
88 all docs	88 docs citations	88 times ranked	1404 citing authors

#	Article	IF	Citations
1	Mapping a Magnetic Superstorm: March 1989 Geoelectric Hazards and Impacts on United States Power Systems. Space Weather, 2022, 20, .	3.7	8
2	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
3	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
4	Magnetotelluric Sampling and Geoelectric Hazard Estimation: Are Nationalâ€Scale Surveys Sufficient?. Space Weather, 2021, 19, e2020SW002693.	3.7	11
5	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
6	Some Experiments in Extremeâ€Value Statistical Modeling of Magnetic Superstorm Intensities. Space Weather, 2020, 18, e2019SW002255.	3.7	15
7	A 100â€year Geoelectric Hazard Analysis for the U.S. Highâ€Voltage Power Grid. Space Weather, 2020, 18, e2019SW002329.	3.7	28
8	Intensity and Impact of the New York Railroad Superstorm of May 1921. Space Weather, 2019, 17, 1281-1292.	3.7	55
9	Extremeâ€Value Geoelectric Amplitude and Polarization Across the Northeast United States. Space Weather, 2019, 17, 379-395.	3.7	20
10	The extreme space weather event in September 1909. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4083-4099.	4.4	35
11	On the Intensity of the Magnetic Superstorm of September 1909. Space Weather, 2019, 17, 37-45.	3.7	31
12	Extreme-Event Geoelectric Hazard Maps. , 2018, , 209-230.		3
13	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
14	The Electric Storm of November 1882. Space Weather, 2018, 16, 37-46.	3.7	17
15	Geoelectric hazard assessment: the differences of geoelectric responses during magnetic storms within common physiographic zones. Earth, Planets and Space, 2018, 70, .	2.5	9
16	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
17	Geoelectric Hazard Maps for the Pacific Northwest. Space Weather, 2018, 16, 1114-1127.	3.7	14
18	Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856.	3.7	149

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19	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
20	Extreme geomagnetic storms: Probabilistic forecasts and their uncertainties. Space Weather, 2017, 15, 53-64.	3.7	77
21	Realâ€time geomagnetic monitoring for space weatherâ€related applications: Opportunities and challenges. Space Weather, 2017, 15, 820-827.	3.7	6
22	Geoelectric monitoring at the Boulder magnetic observatory. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 447-452.	1.6	8
23	Down to Earth With an Electric Hazard From Space. Space Weather, 2017, 15, 658-662.	3.7	9
24	Global statistical maps of extremeâ€event magnetic observatory 1Âmin first differences in horizontal intensity. Geophysical Research Letters, 2016, 43, 4126-4135.	4.0	26
25	Geoelectric hazard maps for the continental United States. Geophysical Research Letters, 2016, 43, 9415-9424.	4.0	38
26	On the lognormality of historical magnetic storm intensity statistics: Implications for extremeâ€event probabilities. Geophysical Research Letters, 2015, 42, 6544-6553.	4.0	72
27	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
28	Observatory geoelectric fields induced in a two-layer lithosphere during magnetic storms. Earth, Planets and Space, 2015, 67, .	2.5	9
29	Mapping geoelectric fields during magnetic storms: Synthetic analysis of empirical United States impedances. Geophysical Research Letters, 2015, 42, 10,160.	4.0	70
30	Magnetic Storms and Induction Hazards. Eos, 2014, 95, 445-446.	0.1	23
31	The magnetic tides of Honolulu. Geophysical Journal International, 2014, 197, 1335-1353.	2.4	25
32	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
33	On the insignificance of Herschel's sunspot correlation. Geophysical Research Letters, 2013, 40, 4171-4176.	4.0	12
34	Insignificant solarâ€terrestrial triggering of earthquakes. Geophysical Research Letters, 2013, 40, 1165-1170.	4.0	33
35	An International Network of Magnetic Observatories. Eos, 2013, 94, 373-374.	0.1	91
36	Problem of the Loveâ€Gannon relation between the asymmetric disturbance field and <i>Dst</i>. Journal of Geophysical Research, 2012, 117, .	3.3	5

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37	On the reported ionospheric precursor of the 1999 Hector Mine, California earthquake. Geophysical Research Letters, 2012, 39, .	4.0	41
38	Geomagnetic detection of the sectorial solar magnetic field and the historical peculiarity of minimum 23â€“24. Geophysical Research Letters, 2012, 39, .	4.0	19
39	John B. â€œJackâ€•Townshend (1927-2012). Eos, 2012, 93, 524-525.	0.1	0
40	Credible occurrence probabilities for extreme geophysical events: Earthquakes, volcanic eruptions, magnetic storms. Geophysical Research Letters, 2012, 39, .	4.0	51
41	Sunspot random walk and 22â€year variation. Geophysical Research Letters, 2012, 39, .	4.0	6
42	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
43	Are secular correlations between sunspots, geomagnetic activity, and global temperature significant?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	14
44	The USGS Geomagnetism Program and Its Role in Space Weather Monitoring. Space Weather, 2011, 9, .	3.7	36
45	USGS 1-min Dst index. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 323-334.	1.6	35
46	Secular trends in storm-level geomagnetic activity. Annales Geophysicae, 2011, 29, 251-262.	1.6	15
47	Long-term biases in geomagnetic <i>K</i> and <i>aa</i> indices. Annales Geophysicae, 2011, 29, 1365-1375.	1.6	15
48	Averaging and sampling for magnetic-observatory hourly data. Annales Geophysicae, 2010, 28, 2079-2096.	1.6	4
49	Movie-maps of low-latitude magnetic storm disturbance. Space Weather, 2010, 8, n/a-n/a.	3.7	28
50	Revised <I>D_{st}</I> and the epicycles of magnetic disturbance: 1958â€“2007. Annales Geophysicae, 2009, 27, 3101-3131.	1.6	64
51	Missing data and the accuracy of magnetic-observatory hour means. Annales Geophysicae, 2009, 27, 3601-3610.	1.6	8
52	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
53	On the reported magnetic precursor of the 1993 Guam earthquake. Geophysical Research Letters, 2009, 36, .	4.0	53
54	Magnetic monitoring of earth and space. Physics Today, 2008, 61, 31-37.	0.3	76

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55	Statistical modeling of storm level <i>Kp</i> occurrences: Solar cycle modulation. Space Weather, 2007, 5, .	3.7	3
56	Magnetic Indices. , 2007, , 509-512.		11
57	Statistical modeling of storm-levelKpoccurrences. Geophysical Research Letters, 2006, 33, .	4.0	3
58	Gaussian statistics for palaeomagnetic vectors. Geophysical Journal International, 2003, 152, 515-565.	2.4	46
59	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
60	Paleointensity in Hawaiian Scientific Drilling Project Hole (HSDP2): Results from submarine basaltic glass. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	26
61	Statistical assessment of preferred transitional VGP longitudes based on palaeomagnetic lava data. Geophysical Journal International, 2000, 140, 211-221.	2.4	36
62	Palaeomagnetic secular variation as a function of intensity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 1191-1223.	3.4	21
63	Dynamo action and the nearly axisymmetric magnetic field of Saturn. Geophysical Research Letters, 2000, 27, 2889-2892.	4.0	14
64	On the anisotropy of secular variation deduced from paleomagnetic volcanic data. Journal of Geophysical Research, 2000, 105, 5799-5816.	3.3	10
65	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
66	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
67	Reversals and excursions of the geodynamo. Astronomy and Geophysics, 1999, 40, 6.14-6.19.	0.2	5
68	A critique of frozen-flux inverse modelling of a nearly steady geodynamo. Geophysical Journal International, 1999, 138, 353-365.	2.4	36
69	Paleomagnetic volcanic data and geometric regularity of reversals and excursions. Journal of Geophysical Research, 1998, 103, 12435-12452.	3.3	67
70	Preferred VGP paths during geomagnetic polarity reversals: Symmetry considerations. Geophysical Research Letters, 1998, 25, 1079-1082.	4.0	23
71	A database for the Matuyama-Brunhes magnetic reversal. Physics of the Earth and Planetary Interiors, 1997, 103, 207-245.	1.9	43
72	Dynamos driven by poloidal flow exist. Geophysical Research Letters, 1996, 23, 857-860.	4.0	14

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73	Characteristics of the white-light source in the 1981 April 24 solar flare. Astrophysical Journal, 1985, 290, L45.	4.5	20