Konstantinos Eftaxias

List of Publications by Year
in descending order

78	2,118	172207	253896
papers	citations	29 h-index	43 g-index

84	84	84	735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From pre-storm activity to magnetic storms: a transition described in terms of fractal dynamics. Annales Geophysicae, 2006, 24, 3557-3567.	0.6	96
2	Investigating dynamical complexity in the magnetosphere using various entropy measures. Journal of Geophysical Research, 2009, 114, .	3.3	87
3	Statistical Mechanics and Information-Theoretic Perspectives on Complexity in the Earth System. Entropy, 2013, 15, 4844-4888.	1.1	85
4	Dynamical complexity detection in pre-seismic emissions using nonadditive Tsallis entropy. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1161-1172.	1.2	81
5	Signature of pending earthquake from electromagnetic anomalies. Geophysical Research Letters, 2001, 28, 3321-3324.	1.5	76
6	Fractal spectral analysis of pre-epileptic seizures in terms of criticality. Journal of Neural Engineering, 2005, 2, 11-16.	1.8	71
7	Dynamical complexity in D_{st} time series using nonâ€extensive Tsallis entropy. Geophysical Research Letters, 2008, 35, .	1.5	69
8	Experience of short term earthquake precursors with VLFâ€“VHF electromagnetic emissions. Natural Hazards and Earth System Sciences, 2003, 3, 217-228.	1.5	68
9	Nonextensivity and universality in the earthquake preparation process. Physical Review E, 2008, 77, 036101.	0.8	57
10	REVIEW AND A MODEL OF PRE-SEISMIC ELECTROMAGNETIC EMISSIONS IN TERMS OF FRACTAL ELECTRODYNAMICS. Fractals, 2004, 12, 243-273.	1.8	54
11	SHORT TERM EARTHQUAKE PREDICTION IN GREECE BY SEISMIC ELECTRIC SIGNALS. , 1996, , 29-76.		54
12	Analysis of electromagnetic pre-seismic emissions using Fisher information and Tsallis entropy. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 300-306.	1.2	53
13	EM anomalies before the Kozani earthquake: A study of their behavior through laboratory experiments. Geophysical Research Letters, 2002, 29, 69-1-69-4.	1.5	52
14	Preseismic electromagnetic signals in terms of complexity. Physical Review E, 2006, 74, 016104.	0.8	50
15	Unfolding the procedure of characterizing recorded ultra low frequency, kHZ and MHz electromagetic anomalies prior to the L'Aquila earthquake as pre-seismic ones â€“ Part 1. Natural Hazards and Earth System Sciences, 2009, 9, 1953-1971.	1.5	48
16	Basic principles for evaluating an earthquake prediction method. Geophysical Research Letters, 1996, 23, 1295-1298.	1.5	45
17	Summary of the five principles suggested by Varotsos et al. [1996] and the additional questions raised in this debate. Geophysical Research Letters, 1996, 23, 1449-1452.	1.5	45
18	Evolution-EM signals before earthquakes in terms of mesomechanics and complexity. Tectonophysics, 2007, 431, 273-300.	0.9	45

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19	Tsallis and Levy statistics in the preparation of an earthquake. Nonlinear Processes in Geophysics, 2008, 15, 379-388.	0.6	43
20	Unfolding the procedure of characterizing recorded ultra low frequency, kHZ and MHz electromagnetic anomalies prior to the L'Aquila earthquake as pre-seismic ones - Part 2. Natural Hazards and Earth System Sciences, 2010, 10, 275-294.	1.5	42
21	Natural time analysis of critical phenomena: The case of pre-fracture electromagnetic emissions. Chaos, 2013, 23, 023117.	1.0	41
22	Footprints of nonextensive Tsallis statistics, selfaffinity and universality in the preparation of the Lâ€™Aquila earthquake hidden in a pre-seismic EM emission. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 133-140.	1.2	40
23	Linking electromagnetic precursors with earthquake dynamics: An approach based on nonextensive fragment and self-affine asperity models. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2232-2244.	1.2	40
24	Universality in solar flare, magnetic storm and earthquake dynamics using Tsallis statistical mechanics. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 341-346.	1.2	37
25	Extracting preseismic electromagnetic signatures in terms of symbolic dynamics. Nonlinear Processes in Geophysics, 2005, 12, 835-848.	0.6	35
26	Evidence of fractional-Brownian-motion-type asperity model for earthquake generation in candidate pre-seismic electromagnetic emissions. Natural Hazards and Earth System Sciences, 2008, 8, 657-669.	1.5	35
27	VHF-electromagnetic evidence of the underlying pre-seismic critical stage. Earth, Planets and Space, 2002, 54, e1237-e1246.	0.9	34
28	Current challenges for pre-earthquake electromagnetic emissions: shedding light from micro-scale plastic flow, granular packings, phase transitions and self-affinity notion of fracture process. Nonlinear Processes in Geophysics, 2013, 20, 771-792.	0.6	32
29	Tricritical crossover in earthquake preparation by analyzing preseismic electromagnetic emissions. Journal of Geodynamics, 2015, 84, 40-54.	0.7	31
30	Recent seismic activity at Cephalonia (Greece): a study through candidate electromagnetic precursors in terms of non-linear dynamics. Nonlinear Processes in Geophysics, 2016, 23, 223-240.	0.6	29
31	Quantifying Dynamical Complexity of Magnetic Storms and Solar Flares via Nonextensive Tsallis Entropy. Entropy, 2011, 13, 1865-1881.	1.1	28
32	Recent Field Observations Indicating an Earth System in Critical Condition Before the Occurrence of a Significant Earthquake. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 631-635.	1.4	28
33	Critical features in electromagnetic anomalies detected prior to the Lâ€™Aquila earthquake. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 499-508.	1.2	25
34	Intermittent criticality revealed in ULF magnetic fields prior to the 11 March 2011 Tohoku earthquake (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si21.gif" display="inline") Tj ETQq0 0 0 rgBT /Overlock 10 Tf Physica A: Statistical Mechanics and Its Applications, 2016, 452, 19-28.	1.2	25
35	Relation between seismicity and pre-earthquake electromagnetic emissions in terms of energy, information and entropy content. Natural Hazards and Earth System Sciences, 2012, 12, 1179-1183.	1.5	24
36	On the puzzling feature of the silence of precursory electromagnetic emissions. Natural Hazards and Earth System Sciences, 2013, 13, 2381-2397.	1.5	24

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37	The Earth as a living planet: human-type diseases in the earthquake preparation process. Natural Hazards and Earth System Sciences, 2013, 13, 125-139.	1.5	23
38	Understanding the fracture phenomena in inhomogeneous rock samples and ionic crystals, by monitoring the electromagnetic emission during their deformation. Physics and Chemistry of the Earth, 2004, 29, 353-357.	1.2	22
39	Dynamical analogy between epileptic seizures and seismogenic electromagnetic emissions by means of nonextensive statistical mechanics. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 497-509.	1.2	21
40	A multidisciplinary analysis for traces of the last state of earthquake generation in preseismic electromagnetic emissions. Natural Hazards and Earth System Sciences, 2011, 11, 2859-2879.	1.5	19
41	Temporal correlation patterns in pre-seismic electromagnetic emissions reveal distinct complexity profiles prior to major earthquakes. Physics and Chemistry of the Earth, 2015, 85-86, 44-55.	1.2	19
42	On Possible Electromagnetic Precursors to a Significant Earthquake (Mw = 6.3) Occurred in Lesvos (Greece) on 12 June 2017. Entropy, 2019, 21, 241.	1.1	19
43	Evidence of critical dynamics in various electromagnetic precursors. European Physical Journal: Special Topics, 2021, 230, 151-177.	1.2	18
44	Signatures of discrete scale invariance inD_{st}time series. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	17
45	Distinguished seismological and electromagnetic features of the impending global failure: Did the 7/9/1999 M5.9 Athens earthquake come with a warning?. Earth, Planets and Space, 2005, 57, 215-230.	0.9	15
46	A study of non-extensivity in the Earthâ€™s magnetosphere. European Physical Journal: Special Topics, 2009, 174, 219-225.	1.2	15
47	A unified approach of catastrophic events. Natural Hazards and Earth System Sciences, 2004, 4, 615-631.	1.5	13
48	Sudden drop of fractal dimension of electromagnetic emissions recorded prior to significant earthquake. Natural Hazards, 2012, 64, 641-650.	1.6	13
49	The role of propagating stress waves on a geophysical scale: Evidence in terms of nonextensivity. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5648-5657.	1.2	13
50	LÃ©vy and Gauss statistics in the preparation of an earthquake. Physica A: Statistical Mechanics and Its Applications, 2019, 528, 121360.	1.2	13
51	Four-Stage Model of Earthquake Generation in Terms of Fracture-Induced Electromagnetic Emissions. , 2018, , 437-502.		12
52	Criticality features in ultra-low frequency magnetic fields prior to the 2013 M6.3 Kobe earthquake. Annals of Geophysics, 2016, 59, .	0.5	12
53	Similarities between extreme events in the solar-terrestrial system by means of nonextensivity. Nonlinear Processes in Geophysics, 2011, 18, 563-572.	0.6	9
54	Dynamical analogy between economical crisis and earthquake dynamics within the nonextensive statistical mechanics framework. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2940-2954.	1.2	8

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55	A material science approach for the evaluation of the rheological state into the earth's lower mantle. Radiation Effects and Defects in Solids, 1995, 137, 217-221.	0.4	7
56	Discrimination between pre-seismic electromagnetic anomalies and solar activity effects. Physica Scripta, 2009, 79, 045901.	1.2	7
57	Are There Pre-Seismic Electromagnetic Precursors? A Multidisciplinary Approach. , 2012, , .		7
58	Magnetovariational and Magnetotelluric study of loannina region sensitive to Seismic Electric Signals (SES). I. Journal of Atmospheric Electricity, 2002, 22, 113-137.	0.1	7
59	Multi-spectral detection of statistically significant components in pre-seismic electromagnetic emissions related with Athens 1999, M=5.9 earthquake. Journal of Applied Geophysics, 2016, 128, 41-57.	0.9	6
60	Comments on the Diffusion of Ga in Ge. Physica Status Solidi (B): Basic Research, 1990, 160, K9.	0.7	5
61	A comment on the self-diffusion data for vanadium. Philosophical Magazine Letters, 1988, 58, 69-73.	0.5	4
62	Reply to â€œA false alarm based on electrical activity recorded at a VAN-Station in northern Greece in December 1990,â€•by J. Drakopoulos and G. Stavrakakis. Geophysical Research Letters, 1996, 23, 1359-1362.	1.5	4
63	Analysis of Selfâ€Diffusion Data in V and Nb. Physica Status Solidi (B): Basic Research, 1989, 156, 393-401.	0.7	3
64	Post-spontaneous-symmetry-breaking power-laws after a very strong earthquake: Indication for the preparation of a new strong earthquake or not?. Physica A: Statistical Mechanics and Its Applications, 2022, 589, 126607.	1.2	3
65	Cation Vacancy Migration Entropy in Alkali Halides. Physica Status Solidi (B): Basic Research, 1988, 147, 83-88.	0.7	2
66	Reply to â€œRe-Rebuttal to the Reply of Varotsos et al.â€, by F. Mulargia, W. Marzocchi, and P. Gasperini. Geophysical Research Letters, 1996, 23, 1345-1346.	1.5	2
67	Electrical properties of non-irradiated and X-irradiated LiH and LiD. Radiation Effects, 1986, 99, 115-120.	0.4	1
68	An Electrolytically Generated, Localized Hole Center in Quartz. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1989, 44, 278-282.	0.7	1
69	Comments on the Interpretation of Highâ€Temperature Experiments on Al in Terms of Defect Concentrations. Physica Status Solidi (B): Basic Research, 1991, 163, K1.	0.7	1
70	Reply to â€œProbability of chance correlations of earthquakes with predictions in areas of heterogeneous seismicity rate: The VAN Case,â€•by M. Wyss and A. Allmann. Geophysical Research Letters, 1996, 23, 1311-1314.	1.5	1
71	Reply to â€œRebuttal to Replies I and II by Varotsos et al.â€•by F. Mulargia, W. Marzocchi and P. Gasperini. Geophysical Research Letters, 1996, 23, 1341-1342.	1.5	1
72	Reply to â€œInaccuracies in seismicity and magnitude data used by Varotsos and Co-workers,â€•by M. Wyss. Geophysical Research Letters, 1996, 23, 1303-1306.	1.5	1

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73	Reply I to â€œVAN: Candidacy and validation with the latest laws of the game,â€•by F. Mulargia and P. Gasperini and â€œPrecursor candidacy and validation: The VAN Case so far,â€•by F. Mulargia and P. Gasperini. Geophysical Research Letters, 1996, 23, 1331-1334.	1.5	1
74	An Exploratory Study of Geospace Perturbations Using Financial Analysis Tools in the Context of Complex Systems. Geosciences (Switzerland), 2021, 11, 239.	1.0	1
75	Magnetovariational and Magnetotelluric study of Ioannina region sensitive to Seismic Electric Signals (SES). II. Journal of Atmospheric Electricity, 2002, 22, 139-164.	0.1	1
76	An alternative treatment of the problem of image formation of an object through plane or spherical interfaces. American Journal of Physics, 1990, 58, 771-773.	0.3	0
77	Reply II to â€œVAN: Candidacy and validation with the latest laws of the game,â€•by F. Mulargia and P. Gasperini and â€œPrecursor candidacy and validation: The VAN Case so far,â€•by F. Mulargia and P. Gasperini. Geophysical Research Letters, 1996, 23, 1335-1338.	1.5	0
78	Reply to â€œThe VAN Method: Contradictory and misleading results since 1981,â€•by G. Stavrakakis and J. Drakopoulos. Geophysical Research Letters, 1996, 23, 1351-1354.	1.5	0