

# Konstantinos Eftaxias

## List of Publications by Year in descending order

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78  
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2,118  
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172207

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253896

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docs citations

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times ranked

735  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Evidence of critical dynamics in various electromagnetic precursors. European Physical Journal: Special Topics, 2021, 230, 151-177.	1.2	18
3	An Exploratory Study of Geospace Perturbations Using Financial Analysis Tools in the Context of Complex Systems. Geosciences (Switzerland), 2021, 11, 239.	1.0	1
4	LÃ©vy and Gauss statistics in the preparation of an earthquake. Physica A: Statistical Mechanics and Its Applications, 2019, 528, 121360.	1.2	13
5	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
6	Four-Stage Model of Earthquake Generation in Terms of Fracture-Induced Electromagnetic Emissions. , 2018, , 437-502.		12
7	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
8	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
9	Intermittent criticality revealed in ULF magnetic fields prior to the 11 March 2011 Tohoku earthquake ( $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si21.gif" display="inline" \rangle Tj ETQq1 1 0.784314 rgBT / Over$ ) Physica A: Statistical Mechanics and Its Applications, 2016, 452, 19-28.	1.2	25
10	Criticality features in ultra-low frequency magnetic fields prior to the 2013 M6.3 Kobe earthquake. Annals of Geophysics, 2016, 59, .	0.5	12
11	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
12	Tricritical crossover in earthquake preparation by analyzing preseismic electromagnetic emissions. Journal of Geodynamics, 2015, 84, 40-54.	0.7	31
13	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
14	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
15	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
16	Statistical Mechanics and Information-Theoretic Perspectives on Complexity in the Earth System. Entropy, 2013, 15, 4844-4888.	1.1	85
17	Natural time analysis of critical phenomena: The case of pre-fracture electromagnetic emissions. Chaos, 2013, 23, 023117.	1.0	41
18	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

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19	On the puzzling feature of the silence of precursory electromagnetic emissions. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 2381-2397.	1.5	24
20	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. <i>Nonlinear Processes in Geophysics</i> , 2013, 20, 771-792.	0.6	32
21	Sudden drop of fractal dimension of electromagnetic emissions recorded prior to significant earthquake. <i>Natural Hazards</i> , 2012, 64, 641-650.	1.6	13
22	The role of propagating stress waves on a geophysical scale: Evidence in terms of nonextensivity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 5648-5657.	1.2	13
23	Are There Pre-Seismic Electromagnetic Precursors? A Multidisciplinary Approach. , 2012, , .		7
24	Relation between seismicity and pre-earthquake electromagnetic emissions in terms of energy, information and entropy content. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 1179-1183.	1.5	24
25	Analysis of electromagnetic pre-seismic emissions using Fisher information and Tsallis entropy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 300-306.	1.2	53
26	Linking electromagnetic precursors with earthquake dynamics: An approach based on nonextensive fragment and self-affine asperity models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 2232-2244.	1.2	40
27	Signatures of discrete scale invariance in $D</i> </sub> <i>st</i> </sub> time series. Geophysical Research Letters, 2011, 38, n/a-n/a.$	1.5	17
28	A multidisciplinary analysis for traces of the last state of earthquake generation in preseismic electromagnetic emissions. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 2859-2879.	1.5	19
29	Universality in solar flare, magnetic storm and earthquake dynamics using Tsallis statistical mechanics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 341-346.	1.2	37
30	Quantifying Dynamical Complexity of Magnetic Storms and Solar Flares via Nonextensive Tsallis Entropy. <i>Entropy</i> , 2011, 13, 1865-1881.	1.1	28
31	Similarities between extreme events in the solar-terrestrial system by means of nonextensivity. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 563-572.	0.6	9
32	Footprints of nonextensive Tsallis statistics, selfaffinity and universality in the preparation of the L'Aquila earthquake hidden in a pre-seismic EM emission. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 133-140.	1.2	40
33	Critical features in electromagnetic anomalies detected prior to the L'Aquila earthquake. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 499-508.	1.2	25
34	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. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 275-294.	1.5	42
35	Discrimination between pre-seismic electromagnetic anomalies and solar activity effects. <i>Physica Scripta</i> , 2009, 79, 045901.	1.2	7
36	A study of non-extensivity in the Earth's magnetosphere. <i>European Physical Journal: Special Topics</i> , 2009, 174, 219-225.	1.2	15

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37	Investigating dynamical complexity in the magnetosphere using various entropy measures. Journal of Geophysical Research, 2009, 114, .	3.3	87
38	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 1. Natural Hazards and Earth System Sciences, 2009, 9, 1953-1971.	1.5	48
39	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
40	Nonextensivity and universality in the earthquake preparation process. Physical Review E, 2008, 77, 036101.	0.8	57
41	Dynamical complexity in $D_{st}$ time series using non-extensive Tsallis entropy. Geophysical Research Letters, 2008, 35, .	1.5	69
42	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
43	Tsallis and Levy statistics in the preparation of an earthquake. Nonlinear Processes in Geophysics, 2008, 15, 379-388.	0.6	43
44	Evolution-EM signals before earthquakes in terms of mesomechanics and complexity. Tectonophysics, 2007, 431, 273-300.	0.9	45
45	From pre-storm activity to magnetic storms: a transition described in terms of fractal dynamics. Annales Geophysicae, 2006, 24, 3557-3567.	0.6	96
46	Preseismic electromagnetic signals in terms of complexity. Physical Review E, 2006, 74, 016104.	0.8	50
47	Fractal spectral analysis of pre-epileptic seizures in terms of criticality. Journal of Neural Engineering, 2005, 2, 11-16.	1.8	71
48	Extracting preseismic electromagnetic signatures in terms of symbolic dynamics. Nonlinear Processes in Geophysics, 2005, 12, 835-848.	0.6	35
49	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
50	A unified approach of catastrophic events. Natural Hazards and Earth System Sciences, 2004, 4, 615-631.	1.5	13
51	REVIEW AND A MODEL OF PRE-SEISMIC ELECTROMAGNETIC EMISSIONS IN TERMS OF FRACTAL ELECTRODYNAMICS. Fractals, 2004, 12, 243-273.	1.8	54
52	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
53	Experience of short term earthquake precursors with VLF-VHF electromagnetic emissions. Natural Hazards and Earth System Sciences, 2003, 3, 217-228.	1.5	68
54	VHF-electromagnetic evidence of the underlying pre-seismic critical stage. Earth, Planets and Space, 2002, 54, e1237-e1246.	0.9	34

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55	EM anomalies before the Kozani earthquake: A study of their behavior through laboratory experiments. <i>Geophysical Research Letters</i> , 2002, 29, 69-1-69-4.	1.5	52
56	Magnetovariational and Magnetotelluric study of Ioannina region sensitive to Seismic Electric Signals (SES). I. <i>Journal of Atmospheric Electricity</i> , 2002, 22, 113-137.	0.1	7
57	Magnetovariational and Magnetotelluric study of Ioannina region sensitive to Seismic Electric Signals (SES). II. <i>Journal of Atmospheric Electricity</i> , 2002, 22, 139-164.	0.1	1
58	Signature of pending earthquake from electromagnetic anomalies. <i>Geophysical Research Letters</i> , 2001, 28, 3321-3324.	1.5	76
59	Basic principles for evaluating an earthquake prediction method. <i>Geophysical Research Letters</i> , 1996, 23, 1295-1298.	1.5	45
60	Reply to "Probability of chance correlations of earthquakes with predictions in areas of heterogeneous seismicity rate: The VAN Case," by M. Wyss and A. Allmann. <i>Geophysical Research Letters</i> , 1996, 23, 1311-1314.	1.5	1
61	Reply to "A false alarm based on electrical activity recorded at a VAN-Station in northern Greece in December 1990," by J. Drakopoulos and G. Stavrakakis. <i>Geophysical Research Letters</i> , 1996, 23, 1359-1362.	1.5	4
62	Reply II to "VAN: Candidacy and validation with the latest laws of the game," by F. Mulargia and P. Gasperini and "Precursor candidacy and validation: The VAN Case so far," by F. Mulargia and P. Gasperini. <i>Geophysical Research Letters</i> , 1996, 23, 1335-1338.	1.5	0
63	Reply to "Re-Rebuttal to the Reply of Varotsos et al.," by F. Mulargia, W. Marzocchi, and P. Gasperini. <i>Geophysical Research Letters</i> , 1996, 23, 1345-1346.	1.5	2
64	Reply to "Rebuttal to Replies I and II by Varotsos et al.," by F. Mulargia, W. Marzocchi and P. Gasperini. <i>Geophysical Research Letters</i> , 1996, 23, 1341-1342.	1.5	1
65	Reply to "Inaccuracies in seismicity and magnitude data used by Varotsos and Co-workers," by M. Wyss. <i>Geophysical Research Letters</i> , 1996, 23, 1303-1306.	1.5	1
66	Reply I to "VAN: Candidacy and validation with the latest laws of the game," by F. Mulargia and P. Gasperini and "Precursor candidacy and validation: The VAN Case so far," by F. Mulargia and P. Gasperini. <i>Geophysical Research Letters</i> , 1996, 23, 1331-1334.	1.5	1
67	Summary of the five principles suggested by Varotsos et al. [1996] and the additional questions raised in this debate. <i>Geophysical Research Letters</i> , 1996, 23, 1449-1452.	1.5	45
68	Reply to "The VAN Method: Contradictory and misleading results since 1981," by G. Stavrakakis and J. Drakopoulos. <i>Geophysical Research Letters</i> , 1996, 23, 1351-1354.	1.5	0
69	SHORT TERM EARTHQUAKE PREDICTION IN GREECE BY SEISMIC ELECTRIC SIGNALS. , 1996, , 29-76.		54
70	A material science approach for the evaluation of the rheological state into the earth's lower mantle. <i>Radiation Effects and Defects in Solids</i> , 1995, 137, 217-221.	0.4	7
71	Comments on the Interpretation of High Temperature Experiments on Al in Terms of Defect Concentrations. <i>Physica Status Solidi (B): Basic Research</i> , 1991, 163, K1.	0.7	1
72	Comments on the Diffusion of Ga in Ge. <i>Physica Status Solidi (B): Basic Research</i> , 1990, 160, K9.	0.7	5

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73	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
74	Analysis of Self-Diffusion Data in V and Nb. Physica Status Solidi (B): Basic Research, 1989, 156, 393-401.	0.7	3
75	An Electrolytically Generated, Localized Hole Center in Quartz. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1989, 44, 278-282.	0.7	1
76	Cation Vacancy Migration Entropy in Alkali Halides. Physica Status Solidi (B): Basic Research, 1988, 147, 83-88.	0.7	2
77	A comment on the self-diffusion data for vanadium. Philosophical Magazine Letters, 1988, 58, 69-73.	0.5	4
78	Electrical properties of non-irradiated and X-irradiated LiH and LiD. Radiation Effects, 1986, 99, 115-120.	0.4	1