

Efthimios S Skordas

List of Publications by Year in descending order

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114
papers

4,467
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126708

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h-index

114278

63
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123
all docs

123
docs citations

123
times ranked

832
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Thermodynamics of Point Defects in Solids and Relation with the Bulk Properties: Recent Results. Crystals, 2022, 12, 686. | 1.0 | 9 |
| 2 | Order Parameter and Entropy of Seismicity in Natural Time before Major Earthquakes: Recent Results. Geosciences (Switzerland), 2022, 12, 225. | 1.0 | 13 |
| 3 | Remote sensing natural time analysis of heartbeat data by means of a portable photoplethysmography device. International Journal of Remote Sensing, 2021, 42, 2292-2302. | 1.3 | 9 |
| 4 | Estimating the Epicenter of an Impending Strong Earthquake by Combining the Seismicity Order Parameter Variability Analysis with Earthquake Networks and Nowcasting: Application in the Eastern Mediterranean. Applied Sciences (Switzerland), 2021, 11, 10093. | 1.3 | 18 |
| 5 | The unusual case of the ultra-deep 2015 Ogasawara earthquake (MW7.9): Natural time analysis. Europhysics Letters, 2021, 135, 49002. | 0.7 | 5 |
| 6 | Estimating the Epicenter of a Future Strong Earthquake in Southern California, Mexico, and Central America by Means of Natural Time Analysis and Earthquake Nowcasting. Entropy, 2021, 23, 1658. | 1.1 | 20 |
| 7 | Detrended fluctuation analysis of seismicity and order parameter fluctuations before the M7.1 Ridgecrest earthquake. Natural Hazards, 2020, 100, 697-711. | 1.6 | 18 |
| 8 | Natural Time Analysis of Seismicity within the Mexican Flat Slab before the M7.1 Earthquake on 19 September 2017. Entropy, 2020, 22, 730. | 1.1 | 17 |
| 9 | Applying the cB ¹ thermodynamical model to LiF using its equation of state obtained from high pressure diamond anvil cell measurements. Solid State Ionics, 2020, 354, 115404. | 1.3 | 7 |
| 10 | Natural Time Analysis: The Area under the Receiver Operating Characteristic Curve of the Order Parameter Fluctuations Minima Preceding Major Earthquakes. Entropy, 2020, 22, 583. | 1.1 | 26 |
| 11 | Fluctuations of the entropy change under time reversal: Further investigations on identifying the occurrence time of an impending major earthquake. Europhysics Letters, 2020, 130, 29001. | 0.7 | 33 |
| 12 | Precursory variations of Tsallis non-extensive statistical mechanics entropic index associated with the M9 Tohoku earthquake in 2011. European Physical Journal: Special Topics, 2020, 229, 851-859. | 1.2 | 8 |
| 13 | On the Statistical Significance of the Variability Minima of the Order Parameter of Seismicity by Means of Event Coincidence Analysis. Applied Sciences (Switzerland), 2020, 10, 662. | 1.3 | 17 |
| 14 | Self-organized criticality and earthquake predictability: A long-standing question in the light of natural time analysis. Europhysics Letters, 2020, 132, 29001. | 0.7 | 43 |
| 15 | Phenomena preceding major earthquakes interconnected through a physical model. Annales Geophysicae, 2019, 37, 315-324. | 0.6 | 40 |
| 16 | Natural time analysis: Important changes of the order parameter of seismicity preceding the 2011 M9 Tohoku earthquake in Japan. Europhysics Letters, 2019, 125, 69001. | 0.7 | 18 |
| 17 | Interconnection of a thermodynamical model for point defect parameters in solids with the dynamical theory of diffusion. Solid State Ionics, 2019, 335, 82-85. | 1.3 | 10 |
| 18 | Identifying the Occurrence Time of the Deadly Mexico M8.2 Earthquake on 7 September 2017. Entropy, 2019, 21, 301. | 1.1 | 12 |

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|----|--|-----|-----------|
| 19 | Natural Time Analysis: Results Related to Two Earthquakes in Greece during 2019. Proceedings (mdpi), 2019, 24, 20. | 0.2 | 2 |
| 20 | A Prototype Photoplethysmography Electronic Device that Distinguishes Congestive Heart Failure from Healthy Individuals by Applying Natural Time Analysis. Electronics (Switzerland), 2019, 8, 1288. | 1.8 | 30 |
| 21 | Identifying the occurrence time of an impending major earthquake by means of the fluctuations of the entropy change under time reversal. Europhysics Letters, 2019, 128, 49001. | 0.7 | 6 |
| 22 | Investigation of the temporal correlations between earthquake magnitudes before the Mexico M8.2 earthquake on 7 September 2017. Physica A: Statistical Mechanics and Its Applications, 2019, 517, 475-483. | 1.2 | 13 |
| 23 | Study in Natural Time of Geoelectric Field and Seismicity Changes Preceding the Mw6.8 Earthquake on 25 October 2018 in Greece. Entropy, 2018, 20, 882. | 1.1 | 16 |
| 24 | A remarkable change of the entropy of seismicity in natural time under time reversal before the super-giant M9 Tohoku earthquake on 11 March 2011. Europhysics Letters, 2018, 124, 29001. | 0.7 | 39 |
| 25 | Tsallis Entropy Index q and the Complexity Measure of Seismicity in Natural Time under Time Reversal before the M9 Tohoku Earthquake in 2011. Entropy, 2018, 20, 757. | 1.1 | 36 |
| 26 | Study of Geo-Electric Data Collected by the Joint EMSEV-Bishkek RS-RAS Cooperation: Possible Earthquake Precursors. Entropy, 2018, 20, 614. | 1.1 | 2 |
| 27 | Natural time analysis: On the deadly Mexico M8.2 earthquake on 7 September 2017. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 625-634. | 1.2 | 40 |
| 28 | Natural Time Analysis of Seismic Time Series. , 2018, , 199-235. | | 3 |
| 29 | Micro-scale, mid-scale, and macro-scale in global seismicity identified by empirical mode decomposition and their multifractal characteristics. Scientific Reports, 2018, 8, 9206. | 1.6 | 33 |
| 30 | Comparison of the R-R intervals in ECG and Oximeter signals to be used in complexity measures of Natural Time Analysis. , 2018, , . | | 4 |
| 31 | Seismic electric signals in seismic prone areas. Earthquake Science, 2018, 31, 44-51. | 0.4 | 15 |
| 32 | Identifying the occurrence time of an impending major earthquake: a review. Earthquake Science, 2017, 30, 209-218. | 0.4 | 33 |
| 33 | M W9 Tohoku earthquake in 2011 in Japan: precursors uncovered by natural time analysis. Earthquake Science, 2017, 30, 183-191. | 0.4 | 8 |
| 34 | Interconnection of defect entropies and enthalpies in BaF_2 revisited. Modern Physics Letters B, 2016, 30, 1650062. | 1.0 | 1 |
| 35 | A tentative model for the explanation of BÅth law using the order parameter of seismicity in natural time. Earthquake Science, 2016, 29, 311-319. | 0.4 | 7 |
| 36 | Bulk moduli of PbSxSe1-x , PbSxTe1-x and PbSexTe1-x from the combination of the cBÍ© model with the modified Born theory compared to generalized gradient approximation. Modern Physics Letters B, 2016, 30, 1650409. | 1.0 | 3 |

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|----|--|-----|-----------|
| 37 | Pressure and temperature dependence of the oxygen self-diffusion activation volume in UO ₂ by a thermodynamical model. <i>Solid State Ionics</i> , 2016, 290, 121-123. | 1.3 | 14 |
| 38 | On the Motivation and Foundation of Natural Time Analysis: Useful Remarks. <i>Acta Geophysica</i> , 2016, 64, 841-852. | 1.0 | 9 |
| 39 | Statistical Significance of Minimum of the Order Parameter Fluctuations of Seismicity Before Major Earthquakes in Japan. <i>Pure and Applied Geophysics</i> , 2016, 173, 165-172. | 0.8 | 17 |
| 40 | Bulk moduli of PbSxSe1-x, PbSxTe1-x and PbSexTe1-x from a thermodynamical model compared to generalized gradient approximation approach. <i>Materials Science in Semiconductor Processing</i> , 2016, 43, 65-68. | 1.9 | 3 |
| 41 | Estimating the Compressibility of Osmium from Recent Measurements of Ir-Os Alloys under High Pressure. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1601-1604. | 1.1 | 15 |
| 42 | Minima of the fluctuations of the order parameter of global seismicity. <i>Chaos</i> , 2015, 25, 063110. | 1.0 | 17 |
| 43 | Identifying the occurrence time of an impending mainshock: a very recent case. <i>Earthquake Science</i> , 2015, 28, 215-222. | 0.4 | 13 |
| 44 | Spatiotemporal variations of seismicity before major earthquakes in the Japanese area and their relation with the epicentral locations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 986-989. | 3.3 | 85 |
| 45 | On the increase of the non-uniform scaling of the magnetic field variations before the Mw9.0 earthquake in Japan in 2011. <i>Chaos</i> , 2014, 24, 023131. | 1.0 | 7 |
| 46 | Application of the Huang-Hilbert transform and natural time to the analysis of seismic electric signal activities. <i>Chaos</i> , 2014, 24, 043102. | 1.0 | 1 |
| 47 | Study of the temporal correlations in the magnitude time series before major earthquakes in Japan. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9192-9206. | 0.8 | 113 |
| 48 | On the anomalous changes of seismicity and geomagnetic field prior to the 2011 9.0 Tohoku earthquake. <i>Journal of Asian Earth Sciences</i> , 2014, 80, 161-164. | 1.0 | 34 |
| 49 | Comment on "LiH as a Li ⁺ and H ⁻ ion provider by Khang Hoang, Chris G. Van de Walle, <i>Solid State Ionics</i> 253 (2013) 53". <i>Solid State Ionics</i> , 2014, 261, 26-27. | 1.3 | 20 |
| 50 | Seismic Electric Signals: An additional fact showing their physical interconnection with seismicity. <i>Tectonophysics</i> , 2013, 589, 116-125. | 0.9 | 127 |
| 51 | A tentative model for estimating the compressibility of rock-salt AgCl x Br alloys. <i>Pramana - Journal of Physics</i> , 2013, 80, 307-313. | 0.9 | 0 |
| 52 | Minimum of the order parameter fluctuations of seismicity before major earthquakes in Japan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13734-13738. | 3.3 | 130 |
| 53 | COMMENTS ON THE ELASTIC PROPERTIES IN SOLID SOLUTIONS OF SILVER HALIDES. <i>Modern Physics Letters B</i> , 2012, 26, 1250066. | 1.0 | 3 |
| 54 | Remarkable changes in the distribution of the order parameter of seismicity before mainshocks. <i>Europhysics Letters</i> , 2012, 100, 39002. | 0.7 | 17 |

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|----|---|-----|-----------|
| 55 | Scale-specific order parameter fluctuations of seismicity before mainshocks: Natural time and Detrended Fluctuation Analysis. <i>Europhysics Letters</i> , 2012, 99, 59001. | 0.7 | 41 |
| 56 | Comment on "Dependence of volume changes during solid solution formation and of volume size factor on solute volume, group number and crystalline structure by O. Core-Alonso, J. Core-Alonso, <i>Intermetallics</i> 2012; 22:142" <i>Intermetallics</i> , 2012, 25, 139. | 1.8 | 0 |
| 57 | Order parameter fluctuations in natural time and β -value variation before large earthquakes. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3473-3481. | 1.5 | 28 |
| 58 | Natural time analysis of critical phenomena. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11361-11364. | 3.3 | 120 |
| 59 | Identifying long-range correlated signals upon significant periodic data loss. <i>Tectonophysics</i> , 2011, 503, 189-194. | 0.9 | 8 |
| 60 | The change of the entropy in natural time under time-reversal in the Olami-Feder-Christensen earthquake model. <i>Tectonophysics</i> , 2011, 513, 49-53. | 0.9 | 49 |
| 61 | Scale-specific order parameter fluctuations of seismicity in natural time before mainshocks. <i>Europhysics Letters</i> , 2011, 96, 59002. | 0.7 | 99 |
| 62 | Similarity of fluctuations in systems exhibiting Self-Organized Criticality. <i>Europhysics Letters</i> , 2011, 96, 28006. | 0.7 | 42 |
| 63 | Natural Time Analysis: The New View of Time. , 2011, , . | | 168 |
| 64 | Introduction to Seismic Electric Signals. , 2011, , 3-115. | | 15 |
| 65 | Entropy in Natural Time. , 2011, , 159-187. | | 2 |
| 66 | Natural Time Analysis of Electrocardiograms. , 2011, , 381-435. | | 2 |
| 67 | Natural Time Analysis of Seismicity. , 2011, , 247-289. | | 0 |
| 68 | Natural Time. Background. , 2011, , 119-157. | | 0 |
| 69 | Natural Time Analysis of Dynamical Models. , 2011, , 341-380. | | 1 |
| 70 | Natural Time Investigation of the Effect of Significant Data Loss on Identifying Seismic Electric Signals. , 2011, , 237-245. | | 0 |
| 71 | Identifying the Occurrence Time of an Impending Mainshock. , 2011, , 291-339. | | 0 |
| 72 | Natural Time Analysis of Seismic Electric Signals. , 2011, , 191-235. | | 1 |

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|----|--|-----|-----------|
| 73 | Defect entropies and enthalpies in BaF2. Open Physics, 2010, 8, . | 0.8 | 3 |
| 74 | On a universal relation for defect data in solids. Physica B: Condensed Matter, 2010, 405, 4320-4322. | 1.3 | 2 |
| 75 | Heterodiffusion coefficients in $\hat{\mu}$ -iron. Physica B: Condensed Matter, 2010, 405, 1915-1917. | 1.3 | 2 |
| 76 | Comments on the electrical conductivity in solid solutions of the silver halide-cadmium halide systems. Solid State Ionics, 2010, 181, 1394-1397. | 1.3 | 4 |
| 77 | Effect of significant data loss on identifying electric signals that precede rupture estimated by detrended fluctuation analysis in natural time. Chaos, 2010, 20, 033111. | 1.0 | 18 |
| 78 | Order parameter fluctuations of seismicity in natural time before and after mainshocks. Europhysics Letters, 2010, 91, 59001. | 0.7 | 72 |
| 79 | Natural-time analysis of critical phenomena: The case of seismicity. Europhysics Letters, 2010, 92, 29002. 40 | | |
| 80 | Nonextensivity and natural time: The case of seismicity. Physical Review E, 2010, 82, 021110. | 0.8 | 114 |
| 81 | Multiplicative cascades and seismicity in natural time. Physical Review E, 2009, 80, 022102. | 0.8 | 42 |
| 82 | Detrended fluctuation analysis of the magnetic and electric field variations that precede rupture. Chaos, 2009, 19, 023114. | 1.0 | 88 |
| 83 | Heart rate variability in natural time and $1/f$ noise. Europhysics Letters, 2009, 87, 18003. | 0.7 | 32 |
| 84 | Fluctuations, under time reversal, of the natural time and the entropy distinguish similar looking electric signals of different dynamics. Journal of Applied Physics, 2008, 103, 014906. | 1.1 | 96 |
| 85 | Investigation of seismicity after the initiation of a Seismic Electric Signal activity until the main shock. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2008, 84, 331-343. | 1.6 | 121 |
| 86 | Electric pulses some minutes before earthquake occurrences. Applied Physics Letters, 2007, 90, 064104. | 1.5 | 17 |
| 87 | Identifying sudden cardiac death risk and specifying its occurrence time by analyzing electrocardiograms in natural time. Applied Physics Letters, 2007, 91, . | 1.5 | 86 |
| 88 | Attempt to distinguish long-range temporal correlations from the statistics of the increments by natural time analysis. Physical Review E, 2006, 74, 021123. | 0.8 | 140 |
| 89 | On the recent advances in the study of seismic electric signals (VAN method). Physics and Chemistry of the Earth, 2006, 31, 189-197. | 1.2 | 8 |
| 90 | Additional evidence on some relationship between Seismic Electric Signals (SES) and earthquake focal mechanism. Tectonophysics, 2006, 412, 279-288. | 0.9 | 23 |

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|-----|--|-----|-----------|
| 91 | Entropy of seismic electric signals: Analysis in natural time under time reversal. <i>Physical Review E</i> , 2006, 73, 031114. | 0.8 | 135 |
| 92 | Flux avalanches in $\text{YBa}_2\text{Cu}_3\text{O}_7$ films and rice piles: Natural time domain analysis. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 32 |
| 93 | Some properties of the entropy in the natural time. <i>Physical Review E</i> , 2005, 71, 032102. | 0.8 | 132 |
| 94 | Similarity of fluctuations in correlated systems: The case of seismicity. <i>Physical Review E</i> , 2005, 72, 041103. | 0.8 | 175 |
| 95 | Origin of the Usefulness of the Natural-Time Representation of Complex Time Series. <i>Physical Review Letters</i> , 2005, 94, 170601. | 2.9 | 92 |
| 96 | Time-difference between the electric field components of signals prior to major earthquakes. <i>Applied Physics Letters</i> , 2005, 86, 194101. | 1.5 | 8 |
| 97 | Natural entropy fluctuations discriminate similar-looking electric signals emitted from systems of different dynamics. <i>Physical Review E</i> , 2005, 71, 011110. | 0.8 | 95 |
| 98 | Entropy in the natural time domain. <i>Physical Review E</i> , 2004, 70, 011106. | 0.8 | 108 |
| 99 | On the difference in the rise times of the two SES electric field components. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2004, 80, 276-282. | 1.6 | 5 |
| 100 | A plausible universal behaviour of earthquakes in the natural time-domain. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2004, 80, 283-289. | 1.6 | 54 |
| 101 | A plausible explanation of the b-value in the Gutenberg-Richter law from first Principles. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2004, 80, 429-434. | 1.6 | 15 |
| 102 | Electric Fields that Arrive before the Time Derivative of the Magnetic Field prior to Major Earthquakes. <i>Physical Review Letters</i> , 2003, 91, 148501. | 2.9 | 114 |
| 103 | Attempt to distinguish electric signals of a dichotomous nature. <i>Physical Review E</i> , 2003, 68, 031106. | 0.8 | 177 |
| 104 | Long-range correlations in the electric signals that precede rupture: Further investigations. <i>Physical Review E</i> , 2003, 67, 021109. | 0.8 | 184 |
| 105 | Long-range correlations in the electric signals that precede rupture. <i>Physical Review E</i> , 2002, 66, 011902. | 0.8 | 301 |
| 106 | Magnetic field variations associated with SES. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2001, 77, 87-92. | 1.6 | 14 |
| 107 | Magnetic field variations associated with the SES before the 6.6 Grevena-Kozani earthquake. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2001, 77, 93-97. | 1.6 | 17 |
| 108 | Field experimentation on the detectability of co-seismic electric signals. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2000, 76, 51-56. | 1.6 | 20 |

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|-----|--|-----|-----------|
| 109 | Reply to "Re-Buttall to the Reply of Varotsos et al." by F. Mulargia, W. Marzocchi, and P. Gasperini. Geophysical Research Letters, 1996, 23, 1345-1346. | 1.5 | 2 |
| 110 | Reply to "Rebuttal to Replies I and II by Varotsos et al." by F. Mulargia, W. Marzocchi and P. Gasperini. Geophysical Research Letters, 1996, 23, 1341-1342. | 1.5 | 1 |
| 111 | Maximum Likelihood Estimation of Seismic Hazard for Sweden. Natural Hazards, 1993, 7, 41-57. | 1.6 | 14 |
| 112 | The seismicity of Fennoscandia. Tectonophysics, 1992, 204, 193-195. | 0.9 | 0 |
| 113 | Spatial and temporal variations of Fennoscandian seismicity. Geophysical Journal International, 1992, 111, 577-588. | 1.0 | 14 |
| 114 | Causality between interplate (North Atlantic) and intraplate (Fennoscandia) seismicities. Tectonophysics, 1991, 185, 295-307. | 0.9 | 24 |