

Oswaldo A Rosso

List of Publications by Year in descending order

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Version: 2024-02-01

191
papers

8,632
citations

44069

48
h-index

51608

86
g-index

197
all docs

197
docs citations

197
times ranked

4467
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Wavelet entropy: a new tool for analysis of short duration brain electrical signals. <i>Journal of Neuroscience Methods</i> , 2001, 105, 65-75. | 2.5 | 712 |
| 2 | Permutation Entropy and Its Main Biomedical and Econophysics Applications: A Review. <i>Entropy</i> , 2012, 14, 1553-1577. | 2.2 | 505 |
| 3 | Distinguishing Noise from Chaos. <i>Physical Review Letters</i> , 2007, 99, 154102. | 7.8 | 504 |
| 4 | Generalized statistical complexity measures: Geometrical and analytical properties. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 369, 439-462. | 2.6 | 285 |
| 5 | Intensive entropic non-triviality measure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 334, 119-131. | 2.6 | 263 |
| 6 | A multifractal approach for stock market inefficiency. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 6558-6566. | 2.6 | 254 |
| 7 | Forbidden patterns, permutation entropy and stock market inefficiency. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 2854-2864. | 2.6 | 197 |
| 8 | Time-frequency analysis of electroencephalogram series. III. Wavelet packets and information cost function. <i>Physical Review E</i> , 1998, 57, 932-940. | 2.1 | 186 |
| 9 | EEG analysis using wavelet-based information tools. <i>Journal of Neuroscience Methods</i> , 2006, 153, 163-182. | 2.5 | 182 |
| 10 | Permutation-information-theory approach to unveil delay dynamics from time-series analysis. <i>Physical Review E</i> , 2010, 82, 046212. | 2.1 | 180 |
| 11 | Complexity-entropy causality plane: A useful approach to quantify the stock market inefficiency. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 1891-1901. | 2.6 | 175 |
| 12 | Statistical complexity and disequilibrium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 311, 126-132. | 2.1 | 173 |
| 13 | Distinguishing chaotic and stochastic dynamics from time series by using a multiscale symbolic approach. <i>Physical Review E</i> , 2012, 86, 046210. | 2.1 | 173 |
| 14 | Wavelet entropy in event-related potentials: a new method shows ordering of EEG oscillations. <i>Biological Cybernetics</i> , 2001, 84, 291-299. | 1.3 | 165 |
| 15 | Time Scales of a Chaotic Semiconductor Laser With Optical Feedback Under the Lens of a Permutation Information Analysis. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 252-261. | 1.9 | 161 |
| 16 | Stationarity of the EEG series. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1995, 14, 395-399. | 0.8 | 129 |
| 17 | Uncovering Molecular Biomarkers That Correlate Cognitive Decline with the Changes of Hippocampus' Gene Expression Profiles in Alzheimer's Disease. <i>PLoS ONE</i> , 2010, 5, e10153. | 2.5 | 121 |
| 18 | Wavelet entropy analysis of event-related potentials indicates modality-independent theta dominance. <i>Journal of Neuroscience Methods</i> , 2002, 117, 99-109. | 2.5 | 110 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Permutation entropy based time series analysis: Equalities in the input signal can lead to false conclusions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1883-1892. | 2.1 | 100 |
| 20 | Brain electrical activity analysis using wavelet-based informational tools. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 313, 587-608. | 2.6 | 89 |
| 21 | Permutation entropy of fractional Brownian motion and fractional Gaussian noise. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4768-4774. | 2.1 | 85 |
| 22 | Brain electrical activity analysis using wavelet-based informational tools (II): Tsallis non-extensivity and complexity measures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 320, 497-511. | 2.6 | 83 |
| 23 | On the efficiency of sovereign bond markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4342-4349. | 2.6 | 82 |
| 24 | Bandt's Pompe approach to the classical-quantum transition. <i>Physica D: Nonlinear Phenomena</i> , 2007, 233, 21-31. | 2.8 | 80 |
| 25 | Detecting and quantifying stochastic and coherence resonances via information-theory complexity measurements. <i>Physical Review E</i> , 2009, 79, 040106. | 2.1 | 80 |
| 26 | Multifractal structure in Latin-American market indices. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 2331-2340. | 5.1 | 75 |
| 27 | Entropy analysis of the dynamics of El Niño/Southern Oscillation during the Holocene. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 5022-5027. | 2.6 | 71 |
| 28 | Commodity predictability analysis with a permutation information theory approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 876-890. | 2.6 | 71 |
| 29 | Distinguishing Noise from Chaos: Objective versus Subjective Criteria Using Horizontal Visibility Graph. <i>PLoS ONE</i> , 2014, 9, e108004. | 2.5 | 69 |
| 30 | An analysis of high-frequency cryptocurrencies prices dynamics using permutation-information-theory quantifiers. <i>Chaos</i> , 2018, 28, 075511. | 2.5 | 68 |
| 31 | Searching for hidden information with Gabor Transform in generalized tonic-clonic seizures. <i>Electroencephalography and Clinical Neurophysiology</i> , 1997, 103, 434-439. | 0.3 | 67 |
| 32 | Fractional Brownian motion, fractional Gaussian noise, and Tsallis permutation entropy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 6057-6068. | 2.6 | 66 |
| 33 | Characterization of time dynamical evolution of electroencephalographic epileptic records. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 312, 469-504. | 2.6 | 64 |
| 34 | Causality and the entropy-complexity plane: Robustness and missing ordinal patterns. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 42-55. | 2.6 | 64 |
| 35 | Time-frequency analysis of electroencephalogram series. <i>Physical Review E</i> , 1995, 51, 2624-2631. | 2.1 | 62 |
| 36 | Characterizing the Hyperchaotic Dynamics of a Semiconductor Laser Subject to Optical Feedback Via Permutation Entropy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 1250-1257. | 2.9 | 62 |

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|----|---|-----|-----------|
| 37 | Detecting and quantifying temporal correlations in stochastic resonance via information theory measures. <i>European Physical Journal B</i> , 2009, 69, 37-43. | 1.5 | 60 |
| 38 | Intensive statistical complexity measure of pseudorandom number generators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 356, 133-138. | 2.6 | 59 |
| 39 | Contrasting chaos with noise via local versus global information quantifiers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1577-1583. | 2.1 | 59 |
| 40 | Extracting features of Gaussian self-similar stochastic processes via the Bandt-Pompe approach. <i>Physical Review E</i> , 2007, 76, 061114. | 2.1 | 56 |
| 41 | Shakespeare and other English Renaissance authors as characterized by Information Theory complexity quantifiers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 916-926. | 2.6 | 55 |
| 42 | Characterization of chaotic maps using the permutation Bandt-Pompe probability distribution. <i>European Physical Journal B</i> , 2013, 86, 1. | 1.5 | 55 |
| 43 | Complexity-entropy analysis of daily stream flow time series in the continental United States. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 1685-1708. | 4.0 | 55 |
| 44 | Permutation min-entropy: An improved quantifier for unveiling subtle temporal correlations. <i>Europhysics Letters</i> , 2015, 109, 10005. | 2.0 | 55 |
| 45 | Wavelet entropy of stochastic processes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 379, 503-512. | 2.6 | 53 |
| 46 | Applying time-frequency analysis to seizure EEG activity. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1997, 16, 64-71. | 0.8 | 52 |
| 47 | Wavelet analysis of generalized tonic-clonic epileptic seizures. <i>Signal Processing</i> , 2003, 83, 1275-1289. | 3.7 | 52 |
| 48 | Entropy changes in brain function. <i>International Journal of Psychophysiology</i> , 2007, 64, 75-80. | 1.0 | 52 |
| 49 | Randomizing nonlinear maps via symbolic dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 3373-3383. | 2.6 | 51 |
| 50 | GENERALIZED STATISTICAL COMPLEXITY MEASURE. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 775-785. | 1.7 | 47 |
| 51 | Distances in Probability Space and the Statistical Complexity Setup. <i>Entropy</i> , 2011, 13, 1055-1075. | 2.2 | 47 |
| 52 | Quantifying the statistical complexity of low-frequency fluctuations in semiconductor lasers with optical feedback. <i>Physical Review A</i> , 2010, 82, . | 2.5 | 45 |
| 53 | The Australian EEG Database. <i>Clinical EEG and Neuroscience</i> , 2005, 36, 76-81. | 1.7 | 44 |
| 54 | Time-frequency analysis of electroencephalogram series. II. Gabor and wavelet transforms. <i>Physical Review E</i> , 1996, 54, 6661-6672. | 2.1 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | A transient dominance of theta event-related brain potential component characterizes stimulus processing in an auditory oddball task. <i>Clinical Neurophysiology</i> , 2003, 114, 529-540. | 1.5 | 42 |
| 56 | Missing ordinal patterns in correlated noises. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 2020-2029. | 2.6 | 42 |
| 57 | Characterization of Gaussian self-similar stochastic processes using wavelet-based informational tools. <i>Physical Review E</i> , 2007, 75, 021115. | 2.1 | 38 |
| 58 | Ambiguities in Bandtâ€™s methodology for local entropic quantifiers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 2518-2526. | 2.6 | 37 |
| 59 | Time series characterization via horizontal visibility graph and Information Theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 464, 93-102. | 2.6 | 37 |
| 60 | Inefficiency in Latin-American market indices. <i>European Physical Journal B</i> , 2007, 60, 111-121. | 1.5 | 36 |
| 61 | Encryption test of pseudo-aleatory messages embedded on chaotic laser signals: An information theory approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 1018-1023. | 2.1 | 36 |
| 62 | Wavelet statistical complexity analysis of the classical limit. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 311, 180-191. | 2.1 | 34 |
| 63 | Info-quantifiersâ€™ map-characterization revisited. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 4604-4612. | 2.6 | 33 |
| 64 | Sampling period, statistical complexity, and chaotic attractors. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 2564-2575. | 2.6 | 33 |
| 65 | Analysis of wavelet-filtered tonic-clonic electroencephalogram recordings. <i>Medical and Biological Engineering and Computing</i> , 2004, 42, 516-523. | 2.8 | 32 |
| 66 | Statistical complexity measure of pseudorandom bit generators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 354, 281-300. | 2.6 | 32 |
| 67 | Wavelet entropy and fractional Brownian motion time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 365, 282-288. | 2.6 | 32 |
| 68 | Random number generators and causality. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 352, 421-425. | 2.1 | 32 |
| 69 | A permutation information theory tour through different interest rate maturities: the Libor case. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20150119. | 3.4 | 31 |
| 70 | Classification and Verification of Handwritten Signatures with Time Causal Information Theory Quantifiers. <i>PLoS ONE</i> , 2016, 11, e0166868. | 2.5 | 30 |
| 71 | Quantifiers for randomness of chaotic pseudo-random number generators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3281-3296. | 3.4 | 29 |
| 72 | The AmigÃ³ paradigm of forbidden/missing patterns: a detailed analysis. <i>European Physical Journal B</i> , 2012, 85, 1. | 1.5 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Entropy-Complexity Characterization of Brain Development in Chickens. <i>Entropy</i> , 2014, 16, 4677-4692. | 2.2 | 29 |
| 74 | Evidence of self-organization in brain electrical activity using wavelet-based informational tools. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 347, 444-464. | 2.6 | 28 |
| 75 | Permutation Entropy and Statistical Complexity Analysis of Brazilian Agricultural Commodities. <i>Entropy</i> , 2019, 21, 1220. | 2.2 | 28 |
| 76 | Analyzing complex networks evolution through Information Theory quantifiers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 801-804. | 2.1 | 26 |
| 77 | Chaos in classical cosmology. <i>General Relativity and Gravitation</i> , 1994, 26, 1131-1143. | 2.0 | 25 |
| 78 | Information theory perspective on network robustness. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 359-364. | 2.1 | 25 |
| 79 | Characterization of electric load with Information Theory quantifiers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 465, 277-284. | 2.6 | 25 |
| 80 | Efficiency characterization of a large neuronal network: A causal information approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 401, 58-70. | 2.6 | 24 |
| 81 | The (in)visible hand in the Libor market: an information theory approach. <i>European Physical Journal B</i> , 2015, 88, 1. | 1.5 | 24 |
| 82 | Learning and distinguishing time series dynamics via ordinal patterns transition graphs. <i>Applied Mathematics and Computation</i> , 2019, 362, 124554. | 2.2 | 24 |
| 83 | Monitoring the informational efficiency of European corporate bond markets with dynamical permutation min-entropy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 456, 1-9. | 2.6 | 23 |
| 84 | A transient dominance of theta ERP component characterizes passive auditory processing: evidence from a developmental study. <i>NeuroReport</i> , 2001, 12, 2791-2796. | 1.2 | 22 |
| 85 | Causal information quantification of prominent dynamical features of biological neurons. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20150109. | 3.4 | 22 |
| 86 | A simple and fast representation space for classifying complex time series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1021-1028. | 2.1 | 22 |
| 87 | An information theory perspective on the informational efficiency of gold price. <i>North American Journal of Economics and Finance</i> , 2019, 50, 101018. | 3.5 | 22 |
| 88 | ENTROPIC NON-TRIVIALITY, THE CLASSICAL LIMIT AND GEOMETRY-DYNAMICS CORRELATIONS. <i>International Journal of Modern Physics B</i> , 2005, 19, 2273-2285. | 2.0 | 21 |
| 89 | Distinguishing childhood absence epilepsy patients from controls by the analysis of their background brain electrical activity (II): A combinatorial optimization approach for electrode selection. <i>Journal of Neuroscience Methods</i> , 2009, 181, 257-267. | 2.5 | 21 |
| 90 | Noise versus chaos in a causal Fisher-Shannon plane. <i>Papers in Physics</i> , 0, 7, 070006. | 0.2 | 21 |

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| 91 | Characterization of vehicle behavior with information theory. <i>European Physical Journal B</i> , 2015, 88, 1. | 1.5 | 20 |
| 92 | Classification of Normal and Pre-Ictal EEG Signals Using Permutation Entropies and a Generalized Linear Model as a Classifier. <i>Entropy</i> , 2017, 19, 72. | 2.2 | 20 |
| 93 | Characterization of Visuomotor/Imaginary Movements in EEG: An Information Theory and Complex Network Approach. <i>Frontiers in Physics</i> , 2019, 7, . | 2.1 | 20 |
| 94 | Diagnosing the Dynamics of Observed and Simulated Ecosystem Gross Primary Productivity with Time Causal Information Theory Quantifiers. <i>PLoS ONE</i> , 2016, 11, e0164960. | 2.5 | 20 |
| 95 | Chaos in classical cosmology (II). <i>General Relativity and Gravitation</i> , 1995, 27, 1295-1307. | 2.0 | 19 |
| 96 | Quantitative EEG analysis of the maturational changes associated with childhood absence epilepsy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 356, 184-189. | 2.6 | 19 |
| 97 | Model-free stochastic processes studied with q-wavelet-based informational tools. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 364, 259-266. | 2.1 | 19 |
| 98 | Quantifying the complexity of the delayed logistic map. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 425-438. | 3.4 | 19 |
| 99 | A symbolic information approach to determine anticipated and delayed synchronization in neuronal circuit models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20150110. | 3.4 | 19 |
| 100 | A detailed characterization of complex networks using Information Theory. <i>Scientific Reports</i> , 2019, 9, 16689. | 3.3 | 19 |
| 101 | Alternative fault detection and diagnostic using information theory quantifiers based on vibration time-waveforms from condition monitoring systems: Application to operational wind turbines. <i>Renewable Energy</i> , 2021, 164, 1183-1194. | 8.9 | 19 |
| 102 | Using nonlinear dynamic metric tools for characterizing brain structures. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1997, 16, 83-92. | 0.8 | 18 |
| 103 | Causal Shannonâ€™Fisher Characterization of Motor/Imagery Movements in EEG. <i>Entropy</i> , 2018, 20, 660. | 2.2 | 18 |
| 104 | Discriminating imagined and non-imagined tasks in the motor cortex area: Entropy-complexity plane with a wavelet decomposition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 511, 27-39. | 2.6 | 18 |
| 105 | 20 years of ordinal patterns: Perspectives and challenges. <i>Europhysics Letters</i> , 0, , . | 2.0 | 18 |
| 106 | Entropy and statistical complexity in brain activity. <i>Europhysics News</i> , 2005, 36, 224-228. | 0.3 | 17 |
| 107 | Multifractal detrended fluctuation analysis of tonic-clonic epileptic seizures. <i>European Physical Journal: Special Topics</i> , 2007, 143, 117-123. | 2.6 | 17 |
| 108 | Wavelet Jensenâ€™Shannon divergence as a tool for studying the dynamics of frequency band components in EEG epileptic seizures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 379, 122-132. | 2.6 | 16 |

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|-----|---|-----|-----------|
| 109 | Quantifying instabilities in Financial Markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 525, 606-615. | 2.6 | 16 |
| 110 | Using time causal quantifiers to characterize sleep stages. <i>Chaos, Solitons and Fractals</i> , 2021, 146, 110798. | 5.1 | 16 |
| 111 | CHARACTERIZATION OF LASER PROPAGATION THROUGH TURBULENT MEDIA BY QUANTIFIERS BASED ON THE WAVELET TRANSFORM. <i>Fractals</i> , 2004, 12, 223-233. | 3.7 | 15 |
| 112 | Rhythmic activities of the brain: Quantifying the high complexity of beta and gamma oscillations during visuomotor tasks. <i>Chaos</i> , 2018, 28, 075513. | 2.5 | 15 |
| 113 | Collective effects induced by charge-exchange vibrational modes on $0\hat{\alpha}^{\sim} \hat{\alpha}^{\dagger} 0+$ and $2\hat{\alpha}^{\sim} \hat{\alpha}^{\dagger} 0+$ first-forbidden \hat{I}^2 -decay transitions. <i>Nuclear Physics A</i> , 1986, 453, 45-57. | 1.5 | 14 |
| 114 | Complexity entropy-analysis of monthly rainfall time series in northeastern Brazil. <i>Chaos, Solitons and Fractals</i> , 2021, 143, 110623. | 5.1 | 14 |
| 115 | Permutation Jensen-Shannon distance: A versatile and fast symbolic tool for complex time-series analysis. <i>Physical Review E</i> , 2022, 105, 045310. | 2.1 | 14 |
| 116 | Characterization of laser propagation through turbulent media by quantifiers based on the wavelet transform: Dynamic study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 364, 79-86. | 2.6 | 13 |
| 117 | Performance of encryption schemes in chaotic optical communication: A multifractal approach. <i>Optics Communications</i> , 2009, 282, 4587-4594. | 2.1 | 13 |
| 118 | A Quantitative Analysis of an EEG Epileptic Record Based on MultiresolutionWavelet Coefficients. <i>Entropy</i> , 2014, 16, 5976-6005. | 2.2 | 13 |
| 119 | Quantifying long-range correlations with a multiscale ordinal pattern approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 445, 283-294. | 2.6 | 13 |
| 120 | Feature evaluation for unsupervised bioacoustic signal segmentation of anuran calls. <i>Expert Systems With Applications</i> , 2018, 106, 107-120. | 7.6 | 13 |
| 121 | Alterations of thalassemic erythrocytes detected by wavelet entropy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 375, 257-264. | 2.6 | 12 |
| 122 | Revisiting the European sovereign bonds with a permutation-information-theory approach. <i>European Physical Journal B</i> , 2013, 86, 1. | 1.5 | 12 |
| 123 | Efficiency and credit ratings: a permutation-information-theory analysis. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P08007. | 2.3 | 12 |
| 124 | Bandt-Pompe symbolization dynamics for time series with tied values: A data-driven approach. <i>Chaos</i> , 2018, 28, 075502. | 2.5 | 12 |
| 125 | Study about vehicles velocities using time causal Information Theory quantifiers. <i>Ad Hoc Networks</i> , 2019, 89, 22-34. | 5.5 | 12 |
| 126 | Analysis and Classification of SAR Textures Using Information Theory. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 663-675. | 4.9 | 12 |

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|-----|---|-----|-----------|
| 127 | Distinguishing childhood absence epilepsy patients from controls by the analysis of their background brain electrical activity. <i>Journal of Neuroscience Methods</i> , 2009, 177, 461-468. | 2.5 | 11 |
| 128 | Tsallis's statistics in the variability of El Niño/Southern Oscillation during the Holocene epoch. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 2154-2162. | 2.6 | 11 |
| 129 | Nonlinear dynamics of river runoff elucidated by horizontal visibility graphs. <i>Chaos</i> , 2018, 28, 075520. | 2.5 | 11 |
| 130 | A discovery of new features of gastropod local field potentials by application of wavelet tools. <i>Journal of Neuroscience Methods</i> , 2002, 119, 89-104. | 2.5 | 10 |
| 131 | Study of EEG Brain Maturation Signals with Multifractal Detrended Fluctuation Analysis. <i>AIP Conference Proceedings</i> , 2007, . . | 0.4 | 10 |
| 132 | Ghost stochastic resonance induced by a power-law distributed noise in the FitzHugh-Nagumo neuron model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 641-649. | 3.3 | 10 |
| 133 | Complexity of Simple, Switched and Skipped Chaotic Maps in Finite Precision. <i>Entropy</i> , 2018, 20, 135. | 2.2 | 10 |
| 134 | Inhibitory autapse mediates anticipated synchronization between coupled neurons. <i>Physical Review E</i> , 2019, 99, 062411. | 2.1 | 10 |
| 135 | Analysis of ischaemic crisis using the informational causal entropy-complexity plane. <i>Chaos</i> , 2018, 28, 075518. | 2.5 | 9 |
| 136 | Leveraging the self-transition probability of ordinal patterns transition network for transportation mode identification based on GPS data. <i>Nonlinear Dynamics</i> , 2022, 107, 889-908. | 5.2 | 9 |
| 137 | RPA and QRPA calculations for low-lying states in ^{96}Zr . <i>Nuclear Physics A</i> , 1993, 563, 74-96. | 1.5 | 8 |
| 138 | Statistical complexity is maximized close to criticality in cortical dynamics. <i>Physical Review E</i> , 2021, 103, 012415. | 2.1 | 8 |
| 139 | Chapter 65 Time-frequency analysis of sensorial brain activity. <i>Supplements To Clinical Neurophysiology</i> , 2002, 54, 443-450. | 2.1 | 7 |
| 140 | Wavelet analysis can sensitively describe dynamics of ethanol evoked local field potentials of the slug (<i>Limax marginatus</i>) brain. <i>Journal of Neuroscience Methods</i> , 2003, 129, 135-150. | 2.5 | 7 |
| 141 | CRUDE OIL MARKET AND GEOPOLITICAL EVENTS: AN ANALYSIS BASED ON INFORMATION-THEORY-BASED QUANTIFIERS. <i>Fuzzy Economic Review</i> , 2016, 21, . | 0.4 | 7 |
| 142 | Self-organizing dynamics of human erythrocytes under shear stress. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 386, 770-775. | 2.6 | 6 |
| 143 | Quantifying complexity of the chaotic regime of a semiconductor laser subject to feedback via information theory measures. , 2010, , . | | 6 |
| 144 | Libor at crossroads: Stochastic switching detection using information theory quantifiers. <i>Chaos, Solitons and Fractals</i> , 2016, 88, 172-182. | 5.1 | 6 |

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|-----|--|-----|-----------|
| 145 | Multiscale permutation entropy analysis of laser beam wandering in isotropic turbulence. <i>Physical Review E</i> , 2017, 96, 042207. | 2.1 | 6 |
| 146 | Evaluation of the status of rotary machines by time causal Information Theory quantifiers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 470, 321-329. | 2.6 | 6 |
| 147 | THREE-FREQUENCY RESONANCES IN DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1999, 09, 2181-2187. | 1.7 | 5 |
| 148 | Model Selection: Using Information Measures from Ordinal Symbolic Analysis to Select Model Subgrid-Scale Parameterizations. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3253-3269. | 1.7 | 5 |
| 149 | A path integral approach to the Hodgkin-Huxley model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 486, 986-999. | 2.6 | 5 |
| 150 | Estimating ecoacoustic activity in the Amazon rainforest through Information Theory quantifiers. <i>PLoS ONE</i> , 2020, 15, e0229425. | 2.5 | 5 |
| 151 | Leveraging Phase Transition of Topics for Event Detection in Social Media. <i>IEEE Access</i> , 2020, 8, 70505-70518. | 4.2 | 5 |
| 152 | White Noise Test from Ordinal Patterns in the Entropy-Complexity Plane. <i>International Statistical Review</i> , 0, , . | 1.9 | 5 |
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