

Holger Kantz

List of Publications by Year in descending order

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Version: 2024-02-01

190
papers

7,879
citations

87888

38
h-index

66911

78
g-index

205
all docs

205
docs citations

205
times ranked

5057
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Benchmarking prediction skill in binary El Niño forecasts. <i>Climate Dynamics</i> , 2022, 58, 1049-1063. | 3.8 | 1 |
| 2 | Trends in auto-correlated temperature series. <i>Theoretical and Applied Climatology</i> , 2022, 147, 1577-1588. | 2.8 | 1 |
| 3 | Passive tracer advection in the equatorial Pacific region: statistics, correlations and a model of fractional Brownian motion. <i>Ocean Science</i> , 2022, 18, 307-320. | 3.4 | 0 |
| 4 | Statistical inference of one-dimensional persistent nonlinear time series and application to predictions. <i>Physical Review Research</i> , 2022, 4, . | 3.6 | 4 |
| 5 | Asymmetric Lévy Flights Are More Efficient in Random Search. <i>Fractal and Fractional</i> , 2022, 6, 260. | 3.3 | 6 |
| 6 | An Ever-Expanding Humanities Knowledge Graph: The Sphaera Corpus at the Intersection of Humanities, Data Management, and Machine Learning. <i>Datenbank-Spektrum</i> , 2022, 22, 153-162. | 1.3 | 3 |
| 7 | Decomposing the effect of anomalous diffusion enables direct calculation of the Hurst exponent and model classification for single random paths. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 274001. | 2.1 | 5 |
| 8 | Prediction error growth in a more realistic atmospheric toy model with three spatiotemporal scales. <i>Geoscientific Model Development</i> , 2022, 15, 4147-4161. | 3.6 | 1 |
| 9 | Higher-order interaction learning of line failure cascading in power networks. <i>Chaos</i> , 2022, 32, . | 2.5 | 7 |
| 10 | Local equilibrium properties of ultraslow diffusion in the Sinai model. <i>New Journal of Physics</i> , 2022, 24, 073026. | 2.9 | 1 |
| 11 | Work fluctuation theorem for a Brownian particle in a nonconfining potential. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 3 |
| 12 | Moses, Noah and Joseph effects in Lévy walks. <i>New Journal of Physics</i> , 2021, 23, 023002. | 2.9 | 16 |
| 13 | Characterizing variability and predictability for air pollutants with stochastic models. <i>Chaos</i> , 2021, 31, 033148. | 2.5 | 8 |
| 14 | Role of thermal fluctuations in biological copying mechanisms. <i>Physical Review E</i> , 2021, 103, 032110. | 2.1 | 1 |
| 15 | Time reversal symmetry and the difference between relaxations and building-up periods. <i>Physical Review E</i> , 2021, 104, 024208. | 2.1 | 3 |
| 16 | Time averaging and emerging nonergodicity upon resetting of fractional Brownian motion and heterogeneous diffusion processes. <i>Physical Review E</i> , 2021, 104, 024105. | 2.1 | 46 |
| 17 | Anomalous diffusion in the citation time series of scientific publications. <i>Journal of Physics Complexity</i> , 2021, 2, 035024. | 2.2 | 2 |
| 18 | Leveraging large-deviation statistics to decipher the stochastic properties of measured trajectories. <i>New Journal of Physics</i> , 2021, 23, 013008. | 2.9 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | On the Motion of Substance in a Channel of a Network: Extended Model and New Classes of Probability Distributions. <i>Entropy</i> , 2020, 22, 1240. | 2.2 | 15 |
| 20 | Evolution and transformation of early modern cosmological knowledge: a network study. <i>Scientific Reports</i> , 2020, 10, 19822. | 3.3 | 16 |
| 21 | An ARFIMA-based model for daily precipitation amounts with direct access to fluctuations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1487-1505. | 4.0 | 6 |
| 22 | Probabilistic properties of detrended fluctuation analysis for Gaussian processes. <i>Physical Review E</i> , 2020, 101, 032114. | 2.1 | 8 |
| 23 | Stochastic resonance and hysteresis in climate with state-dependent fluctuations. <i>Physical Review E</i> , 2020, 101, 062145. | 2.1 | 7 |
| 24 | Data-Driven Model of the Power-Grid Frequency Dynamics. <i>IEEE Access</i> , 2020, 8, 43082-43097. | 4.2 | 33 |
| 25 | Identifying characteristic time scales in power grid frequency fluctuations with DFA. <i>Chaos</i> , 2020, 30, 013130. | 2.5 | 12 |
| 26 | Stochastic properties of the frequency dynamics in real and synthetic power grids. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 18 |
| 27 | Analysis and Simulation of Extremes and Rare Events in Complex Systems. <i>Studies in Systems, Decision and Control</i> , 2020, , 151-182. | 1.0 | 0 |
| 28 | Robust regional clustering and modeling of nonstationary summer temperature extremes across Germany. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2020, 6, 61-77. | 0.9 | 0 |
| 29 | On star-convex volumes in 2-D hydrodynamical flows and their relevance for coherent transport. <i>Chaos</i> , 2020, 30, 123147. | 2.5 | 0 |
| 30 | Spring onset forecast using harmonic analysis on daily mean temperature in Germany. <i>Environmental Research Letters</i> , 2020, 15, 104069. | 5.2 | 3 |
| 31 | Power law error growth in multi-hierarchical chaotic systems—a dynamical mechanism for finite prediction horizon. <i>New Journal of Physics</i> , 2019, 21, 093002. | 2.9 | 3 |
| 32 | A simple decomposition of European temperature variability capturing the variance from days to a decade. <i>Climate Dynamics</i> , 2019, 53, 6909-6917. | 3.8 | 13 |
| 33 | Logical response induced by temperature asymmetry. <i>Physical Review E</i> , 2019, 100, 032108. | 2.1 | 11 |
| 34 | Theoretical foundation of detrending methods for fluctuation analysis such as detrended fluctuation analysis and detrending moving average. <i>Physical Review E</i> , 2019, 99, 033305. | 2.1 | 37 |
| 35 | Inferring characteristic timescales from the effect of autoregressive dynamics on detrended fluctuation analysis. <i>New Journal of Physics</i> , 2019, 21, 033022. | 2.9 | 20 |
| 36 | Apparent violations of the second law in two-level systems. <i>Physical Review E</i> , 2019, 100, 052116. | 2.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | An extended transfer operator approach to identify separatrices in open flows. <i>Chaos</i> , 2018, 28, 053101. | 2.5 | 2 |
| 38 | Reproducing Long-Range Correlations in Global Mean Temperatures in Simple Energy Balance Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4413-4422. | 3.3 | 8 |
| 39 | Heterogeneous diffusion in comb and fractal grid structures. <i>Chaos, Solitons and Fractals</i> , 2018, 114, 551-555. | 5.1 | 37 |
| 40 | Anomalous diffusion and the Moses effect in an aging deterministic model. <i>New Journal of Physics</i> , 2018, 20, 113033. | 2.9 | 14 |
| 41 | Large deviations of time-averaged statistics for Gaussian processes. <i>Statistics and Probability Letters</i> , 2018, 143, 47-55. | 0.7 | 7 |
| 42 | Large-deviation probabilities for correlated Gaussian processes and intermittent dynamical systems. <i>Physical Review E</i> , 2018, 97, 052147. | 2.1 | 1 |
| 43 | Stochastic dynamics and the predictability of big hits in online videos. <i>Physical Review E</i> , 2017, 95, 032311. | 2.1 | 5 |
| 44 | Infinite invariant densities due to intermittency in a nonlinear oscillator. <i>Physical Review E</i> , 2017, 96, 022217. | 2.1 | 14 |
| 45 | Early warning signal for interior crises in excitable systems. <i>Physical Review E</i> , 2017, 96, 042211. | 2.1 | 12 |
| 46 | Scale-invariant Green-Kubo relation for time-averaged diffusivity. <i>Physical Review E</i> , 2017, 96, 062122. | 2.1 | 20 |
| 47 | Ageing effects in ultraslow continuous time random walks. <i>European Physical Journal B</i> , 2017, 90, 1. | 1.5 | 12 |
| 48 | Anomalous diffusion on a fractal mesh. <i>Physical Review E</i> , 2017, 95, 052107. | 2.1 | 24 |
| 49 | Generalized Langevin equation with tempered memory kernel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 466, 356-369. | 2.6 | 51 |
| 50 | Detrended fluctuation analysis and the difference between external drifts and intrinsic diffusionlike nonstationarity. <i>Physical Review E</i> , 2016, 94, 042201. | 2.1 | 24 |
| 51 | A model of return intervals between earthquake events. <i>Europhysics Letters</i> , 2016, 114, 60003. | 2.0 | 4 |
| 52 | Confidence intervals for time averages in the presence of long-range correlations, a case study on Earth surface temperature anomalies. <i>Geophysical Research Letters</i> , 2016, 43, 9243-9249. | 4.0 | 24 |
| 53 | Optimal Extraction of Collective Oscillations from Unreliable Measurements. <i>Physical Review Letters</i> , 2016, 116, 104101. | 7.8 | 10 |
| 54 | Renewal Theory for a System with Internal States. <i>Mathematical Modelling of Natural Phenomena</i> , 2016, 11, 191-239. | 2.4 | 9 |

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|----|--|-----|-----------|
| 55 | Comb Model with Slow and Ultraslow Diffusion. Mathematical Modelling of Natural Phenomena, 2016, 11, 18-33. | 2.4 | 38 |
| 56 | Phytoplankton dynamics in the Southern California Bight indicate a complex mixture of transport and biology. Journal of Plankton Research, 2016, 38, 1077-1091. | 1.8 | 19 |
| 57 | Prediction of Complex Dynamics: Who Cares About Chaos?. Lecture Notes in Physics, 2016, , 249-269. | 0.7 | 1 |
| 58 | Distributed-order diffusion equations and multifractality: Models and solutions. Physical Review E, 2015, 92, 042117. | 2.1 | 83 |
| 59 | Data-driven prediction and prevention of extreme events in a spatially extended excitable system. Physical Review E, 2015, 92, 042910. | 2.1 | 31 |
| 60 | The fluctuation function of the detrended fluctuation analysis " investigation on the AR(1) process. European Physical Journal B, 2015, 88, 1. | 1.5 | 28 |
| 61 | The relationship between the detrended fluctuation analysis and the autocorrelation function of a signal. European Physical Journal B, 2015, 88, 1. | 1.5 | 54 |
| 62 | Extreme events due to localization of energy. Physical Review E, 2015, 91, 012918. | 2.1 | 5 |
| 63 | Fractional diffusion on a fractal grid comb. Physical Review E, 2015, 91, 032108. | 2.1 | 30 |
| 64 | Diffusion and Fokker-Planck-Smoluchowski Equations with Generalized Memory Kernel. Fractional Calculus and Applied Analysis, 2015, 18, 1006-1038. | 2.2 | 83 |
| 65 | Nonlinear time-series analysis revisited. Chaos, 2015, 25, 097610. | 2.5 | 252 |
| 66 | Fluctuation theorem between non-equilibrium states in an RC circuit. New Journal of Physics, 2015, 17, 065005. | 2.9 | 4 |
| 67 | Questionable dynamical evidence for causality between galactic cosmic rays and interannual variation in global temperature. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4638-E4639. | 7.1 | 10 |
| 68 | Localisation and universal fluctuations in ultraslow diffusion processes. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 492002. | 2.1 | 38 |
| 69 | Improved predictions of rare events using the Crooks fluctuation theorem. Physical Review E, 2014, 89, 032112. | 2.1 | 2 |
| 70 | Observing spatio-temporal clustering and separation using interevent distributions of regional earthquakes. Nonlinear Processes in Geophysics, 2014, 21, 735-744. | 1.3 | 27 |
| 71 | Fluctuations of $1 < \int f >$ Noise and the Low-Frequency Cutoff Paradox. Physical Review Letters, 2013, 110, 140603. | 7.8 | 79 |
| 72 | Differential Landauer's principle. Europhysics Letters, 2013, 101, 50004. | 2.0 | 15 |

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|----|---|-----|-----------|
| 73 | The problem of spurious Lyapunov exponents in time series analysis and its solution by covariant Lyapunov vectors. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 254009. | 2.1 | 18 |
| 74 | Application of the method of simplest equation for obtaining exact traveling-wave solutions for the extended Kortewegâ€“de Vries equation and generalized Camassaâ€“Holm equation. <i>Applied Mathematics and Computation</i> , 2013, 219, 7480-7492. | 2.2 | 43 |
| 75 | Limiting distributions of continuous-time random walks with superheavy-tailed waiting times. <i>Physical Review E</i> , 2013, 87, 022117. | 2.1 | 7 |
| 76 | Crooks Fluctuation Theorem for a Process on a Two-Dimensional Fluid Field. <i>Physical Review Letters</i> , 2013, 110, 234502. | 7.8 | 3 |
| 77 | Rank Histograms of Stratified Monte Carlo Ensembles. <i>Monthly Weather Review</i> , 2012, 140, 1558-1571. | 1.4 | 10 |
| 78 | Covariant Lyapunov Vectors from Reconstructed Dynamics: The Geometry behind True and Spurious Lyapunov Exponents. <i>Physical Review Letters</i> , 2012, 109, 244101. | 7.8 | 13 |
| 79 | Biased diffusion inside regular islands under random symplectic perturbations. <i>Physical Review E</i> , 2012, 85, 066210. | 2.1 | 13 |
| 80 | Continuous-time random walk with a superheavy-tailed distribution of waiting times. <i>Physical Review E</i> , 2011, 83, 041132. | 2.1 | 18 |
| 81 | The concept of exchangeability in ensemble forecasting. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 1-5. | 1.3 | 9 |
| 82 | Predictability of Music Descriptor Time Series and its Application to Cover Song Detection. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011, , . | 3.2 | 14 |
| 83 | Prediction of extreme events in the OFC model on a small world network. <i>European Physical Journal B</i> , 2011, 79, 7-11. | 1.5 | 17 |
| 84 | Probability distribution function for systems driven by superheavy-tailed noise. <i>European Physical Journal B</i> , 2011, 80, 167-175. | 1.5 | 4 |
| 85 | Predicting outliers in ensemble forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1887-1897. | 2.7 | 7 |
| 86 | Thermodynamic cost of measurements. <i>Physical Review E</i> , 2011, 84, 061110. | 2.1 | 41 |
| 87 | Hopping over a heat barrier. <i>Physical Review E</i> , 2011, 83, 031134. | 2.1 | 0 |
| 88 | Asymptotic solutions of decoupled continuous-time random walks with superheavy-tailed waiting time and heavy-tailed jump length distributions. <i>Physical Review E</i> , 2011, 84, 061143. | 2.1 | 20 |
| 89 | Comments on â€œConditional Exceedance Probabilitiesâ€•. <i>Monthly Weather Review</i> , 2011, 139, 3322-3324. | 1.4 | 3 |
| 90 | Model-based cover song detection via threshold autoregressive forecasts. , 2010, , . | | 1 |

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| 91 | Biased diffusion in a piecewise linear random potential. European Physical Journal B, 2010, 76, 1-11. | 1.5 | 10 |
| 92 | Modified method of simplest equation and its application to nonlinear PDEs. Applied Mathematics and Computation, 2010, 216, 2587-2595. | 2.2 | 99 |
| 93 | $1/f\ell^2$ noise in a model for weak ergodicity breaking. Chemical Physics, 2010, 375, 370-377. | 1.9 | 4 |
| 94 | Crooks's fluctuation theorem for the fluctuating lattice-Boltzmann model. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P06029. | 2.3 | 4 |
| 95 | Langevin equation with super-heavy-tailed noise. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 285004. | 2.1 | 27 |
| 96 | Anomalous biased diffusion in a randomly layered medium. Physical Review E, 2010, 81, 021117. | 2.1 | 8 |
| 97 | Continuous-time random walk theory of superslow diffusion. Europhysics Letters, 2010, 92, 30001. | 2.0 | 27 |
| 98 | Optimal Markov approximations and generalized embeddings. Physical Review E, 2009, 79, 056202. | 2.1 | 13 |
| 99 | Predicting extreme avalanches in self-organized critical sandpiles. Physical Review E, 2009, 80, 026124. | 2.1 | 29 |
| 100 | Directed transport in periodically rocked random sawtooth potentials. Physical Review E, 2009, 79, 051102. | 2.1 | 5 |
| 101 | Parameters of the fractional Fokker-Planck equation. Europhysics Letters, 2009, 85, 40007. | 2.0 | 21 |
| 102 | Finite-size effects on the statistics of extreme events in the BTW model. European Physical Journal B, 2009, 67, 437-443. | 1.5 | 16 |
| 103 | A first order geometric auto regressive process for boundary layer wind speed simulation. European Physical Journal B, 2009, 70, 575-581. | 1.5 | 1 |
| 104 | Bivariate time-periodic Fokker-Planck model for freeway traffic. European Physical Journal B, 2009, 72, 467-472. | 1.5 | 2 |
| 105 | Joint probability distributions and multipoint correlations of the continuous-time random walk. Physical Review E, 2008, 78, 051104. | 2.1 | 6 |
| 106 | Usage of the Mori-Zwanzig method in time series analysis. Physical Review E, 2008, 77, 011117. | 2.1 | 15 |
| 107 | Return interval distribution of extreme events and long-term memory. Physical Review E, 2008, 78, 051113. | 2.1 | 90 |
| 108 | Multistability of synthetic genetic networks with repressive cell-to-cell communication. Physical Review E, 2008, 78, 031904. | 2.1 | 84 |

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| 109 | Prediction of Extreme Events. Lecture Notes in Earth Sciences, 2008, , 35-59. | 0.5 | 5 |
| 110 | Fast Hamiltonian chaos: Heat bath without thermodynamic limit. Physical Review E, 2007, 76, 066211. | 2.1 | 4 |
| 111 | Precursors of extreme increments. Physical Review E, 2007, 75, 016706. | 2.1 | 37 |
| 112 | Improvement of speech recognition by nonlinear noise reduction. Chaos, 2007, 17, 023121. | 2.5 | 1 |
| 113 | Vertical chaos and horizontal diffusion in the bouncing-ball billiard. Physical Review E, 2007, 75, 046214. | 2.1 | 10 |
| 114 | Dynamical quantities and their numerical analysis by saddle periodic orbits. Physica D: Nonlinear Phenomena, 2007, 232, 166-172. | 2.8 | 2 |
| 115 | Short Time Prediction of Wind Speeds from Local Measurements. , 2007, , 93-98. | | 2 |
| 116 | On the trap of extinction and its elimination. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 350-355. | 2.1 | 27 |
| 117 | Reactions to extreme events: Moving threshold model. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 435-444. | 2.6 | 17 |
| 118 | Accuracy and efficiency of reduced stochastic models for chaotic Hamiltonian systems with time-scale separation. Physical Review E, 2006, 73, 066228. | 2.1 | 4 |
| 119 | Stickiness in Hamiltonian systems: From sharply divided to hierarchical phase space. Physical Review E, 2006, 73, 026207. | 2.1 | 76 |
| 120 | Dynamical Interpretation of Extreme Events: Predictability and Predictions. The Frontiers Collection, 2006, , 69-93. | 0.2 | 16 |
| 121 | Long-range correlations and rare events in boundary layer wind fields. Physica A: Statistical Mechanics and Its Applications, 2005, 345, 713-721. | 2.6 | 40 |
| 122 | Anti-deterministic behaviour of discrete systems that are less predictable than noise. Physica A: Statistical Mechanics and Its Applications, 2005, 350, 189-198. | 2.6 | 3 |
| 123 | Predicting Probability for Stochastic Processes with Local Markov Property. , 2005, , 95-98. | | 1 |
| 124 | Hamiltonian Chaos Acts Like a Finite Energy Reservoir: Accuracy of the Fokker-Planck Approximation. Physical Review Letters, 2005, 94, 054103. | 7.8 | 13 |
| 125 | Effective dynamics in Hamiltonian systems with mixed phase space. Physical Review E, 2005, 71, 036215. | 2.1 | 20 |
| 126 | Stickiness in mushroom billiards. Chaos, 2005, 15, 033105. | 2.5 | 54 |

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|-----|---|-----|-----------|
| 127 | Recurrence time analysis, long-term correlations, and extreme events. <i>Physical Review E</i> , 2005, 71, 056106. | 2.1 | 152 |
| 128 | Random matrix approach to multivariate correlations: Some limiting cases. <i>Physical Review E</i> , 2004, 69, 056102. | 2.1 | 4 |
| 129 | PHASE SPACE RECONSTRUCTION AND NONLINEAR PREDICTIONS FOR STATIONARY AND NONSTATIONARY MARKOVIAN PROCESSES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 1935-1945. | 1.7 | 4 |
| 130 | Fast chaos versus white noise: entropy analysis and a Fokker-Planck model for the slow dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2004, 187, 200-213. | 2.8 | 19 |
| 131 | Markov chain model for turbulent wind speed data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 342, 315-321. | 2.6 | 95 |
| 132 | Complex dynamics in simple systems with periodic parameter oscillations. <i>Physical Review E</i> , 2004, 70, 056202. | 2.1 | 1 |
| 133 | Elimination of Fast Chaotic Degrees of Freedom: On the Accuracy of the Born Approximation. <i>Journal of Statistical Physics</i> , 2003, 112, 277-292. | 1.2 | 30 |
| 134 | Genetic distance in sequence space of evolving populations. <i>Complexity</i> , 2003, 8, 51-56. | 1.6 | 0 |
| 135 | Noise-induced fluctuations of period lengths of stable periodic orbits. <i>Physical Review E</i> , 2003, 67, 036210. | 2.1 | 1 |
| 136 | Effects of random noise on a simple class of growing network models. <i>Physical Review E</i> , 2003, 68, 026110. | 2.1 | 0 |
| 137 | Unexpected robustness against noise of a class of nonhyperbolic chaotic attractors. <i>Physical Review E</i> , 2002, 65, 026209. | 2.1 | 21 |
| 138 | Optimizing of recurrence plots for noise reduction. <i>Physical Review E</i> , 2002, 65, 021102. | 2.1 | 78 |
| 139 | Ragwitz and Kantz Reply:. <i>Physical Review Letters</i> , 2002, 89, . | 7.8 | 17 |
| 140 | Markov models from data by simple nonlinear time series predictors in delay embedding spaces. <i>Physical Review E</i> , 2002, 65, 056201. | 2.1 | 105 |
| 141 | Nonlinear Noise Reduction. <i>Studies in Computational Finance</i> , 2002, , 401-416. | 0.1 | 0 |
| 142 | Indispensable Finite Time Corrections for Fokker-Planck Equations from Time Series Data. <i>Physical Review Letters</i> , 2001, 87, 254501. | 7.8 | 123 |
| 143 | Reconstruction of the parameter spaces of dynamical systems. <i>Physical Review E</i> , 2001, 63, 056215. | 2.1 | 7 |
| 144 | TIME SERIES ANALYSIS IN RECONSTRUCTED STATE SPACES. <i>Stochastics and Dynamics</i> , 2001, 01, 85-111. | 1.2 | 5 |

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|-----|--|-----|-----------|
| 145 | DETERMINATION OF THE DYNAMICAL PROPERTIES OF FERROELECTRICS USING NONLINEAR TIME SERIES ANALYSIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1019-1034. | 1.7 | 6 |
| 146 | Stochastic modelling: replacing fast degrees of freedom by noise. Journal of Physics A, 2001, 34, 3199-3213. | 1.6 | 58 |
| 147 | Dynamical systems with time scale separation: averaging, stochastic modelling, and central limit theorems. , 2001, , 189-209. | | 3 |
| 148 | Analysis of vocal disorders in a feature space. Medical Engineering and Physics, 2000, 22, 413-418. | 1.7 | 22 |
| 149 | Coarse grained dynamical entropies: Investigation of high-entropic dynamical systems. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 34-48. | 2.6 | 19 |
| 150 | Some considerations on Poincaré maps for chaotic flows. Journal of Physics A, 2000, 33, 163-170. | 1.6 | 16 |
| 151 | Local Estimates for Entropy Densities in Coupled Map Lattices. Physical Review Letters, 2000, 84, 2132-2135. | 7.8 | 9 |
| 152 | Coping with Nonstationarity by Overembedding. Physical Review Letters, 2000, 84, 4092-4095. | 7.8 | 76 |
| 153 | Denoising Human Speech Signals Using Chaolike Features. Physical Review Letters, 2000, 84, 3197-3200. | 7.8 | 36 |
| 154 | Relation between coupled map lattices and kinetic Ising models. Physical Review E, 2000, 61, 3675-3684. | 2.1 | 14 |
| 155 | Characterization of sensitivity to finite perturbations. Physical Review E, 2000, 61, 2533-2538. | 2.1 | 12 |
| 156 | Experimental Verification of Noise Induced Attractor Deformation. Physical Review Letters, 1999, 82, 2274-2277. | 7.8 | 9 |
| 157 | Improved false nearest neighbor method to detect determinism in time series data. Physical Review E, 1999, 60, 4970-4973. | 2.1 | 99 |
| 158 | Fitting partial differential equations to space-time dynamics. Physical Review E, 1999, 59, 337-342. | 2.1 | 64 |
| 159 | Practical implementation of nonlinear time series methods: The TISEAN package. Chaos, 1999, 9, 413-435. | 2.5 | 1,277 |
| 160 | Nichtlineare Zeitreihenanalyse in der Physik: Möglichkeiten und Grenzen. , 1999, , 74-88. | | 0 |
| 161 | Analysing local observations of weakly coupled maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 538-544. | 2.1 | 15 |
| 162 | The transition from deterministic chaos to a stochastic process. Physica A: Statistical Mechanics and Its Applications, 1998, 253, 105-117. | 2.6 | 9 |

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|-----|--|-----|-----------|
| 163 | Identifying and Modeling Delay Feedback Systems. <i>Physical Review Letters</i> , 1998, 81, 558-561. | 7.8 | 185 |
| 164 | Problems in the Reconstruction of High-dimensional Deterministic Dynamics from Time Series. , 1998, , 23-47. | | 3 |
| 165 | Dynamical properties of a ferroelectric capacitor observed through nonlinear time series analysis. <i>Chaos</i> , 1998, 8, 727-736. | 2.5 | 40 |
| 166 | Structure of generating partitions for two-dimensional maps. <i>Journal of Physics A</i> , 1997, 30, L567-L576. | 1.6 | 16 |
| 167 | Correlation dimension of intermittent signals. <i>Physical Review E</i> , 1997, 56, 199-203. | 2.1 | 4 |
| 168 | Effective deterministic models for chaotic dynamics perturbed by noise. <i>Physical Review E</i> , 1997, 55, 5234-5247. | 2.1 | 12 |
| 169 | Scalar observations from a class of high-dimensional chaotic systems: Limitations of the time delay embedding. <i>Chaos</i> , 1997, 7, 423-429. | 2.5 | 24 |
| 170 | Inferring chaotic dynamics from time-series: On which length scale determinism becomes visible. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 232, 63-69. | 2.1 | 38 |
| 171 | Improved cost functions for modelling of noisy chaotic time series. <i>Physica D: Nonlinear Phenomena</i> , 1997, 109, 59-69. | 2.8 | 6 |
| 172 | Homoclinic tangencies and non-normal Jacobians " Effects of noise in nonhyperbolic chaotic systems. <i>Physica D: Nonlinear Phenomena</i> , 1997, 105, 79-96. | 2.8 | 47 |
| 173 | Unbiased reconstruction of the dynamics underlying a noisy chaotic time series. <i>Chaos</i> , 1996, 6, 440-450. | 2.5 | 42 |
| 174 | Nonlinear time series analysis " Potentials and limitations. , 1996, , 213-228. | | 0 |
| 175 | Enlarged scaling ranges for the KS-entropy and the information dimension. <i>Chaos</i> , 1996, 6, 167-171. | 2.5 | 15 |
| 176 | Observing and Predicting Chaotic Signals: Is 2% Noise Too Much?. <i>Springer Series in Synergetics</i> , 1996, , 43-65. | 0.4 | 24 |
| 177 | Noise in chaotic data: Diagnosis and treatment. <i>Chaos</i> , 1995, 5, 133-142. | 2.5 | 55 |
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