

Nobert Marwan

List of Publications by Year in descending order

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218
papers

16,963
citations

28190

55
h-index

16605

123
g-index

273
all docs

273
docs citations

273
times ranked

10489
citing authors

#	ARTICLE	IF	CITATIONS
1	Recurrence plots for the analysis of complex systems. <i>Physics Reports</i> , 2007, 438, 237-329.	10.3	2,809
2	An astronomically dated record of Earth's climate and its predictability over the last 66 million years. <i>Science</i> , 2020, 369, 1383-1387.	6.0	791
3	Recurrence-plot-based measures of complexity and their application to heart-rate-variability data. <i>Physical Review E</i> , 2002, 66, 026702.	0.8	775
4	Complex network approach for recurrence analysis of time series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4246-4254.	0.9	501
5	Recurrence networks—a novel paradigm for nonlinear time series analysis. <i>New Journal of Physics</i> , 2010, 12, 033025.	1.2	489
6	How basin stability complements the linear-stability paradigm. <i>Nature Physics</i> , 2013, 9, 89-92.	6.5	426
7	Development and Disintegration of Maya Political Systems in Response to Climate Change. <i>Science</i> , 2012, 338, 788-791.	6.0	421
8	Complex networks in climate dynamics. <i>European Physical Journal: Special Topics</i> , 2009, 174, 157-179.	1.2	416
9	Nonlinear analysis of bivariate data with cross recurrence plots. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 302, 299-307.	0.9	383
10	Complex network approaches to nonlinear time series analysis. <i>Physics Reports</i> , 2019, 787, 1-97.	10.3	370
11	RECURRENCE-BASED TIME SERIES ANALYSIS BY MEANS OF COMPLEX NETWORK METHODS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 1019-1046.	0.7	350
12	The backbone of the climate network. <i>Europhysics Letters</i> , 2009, 87, 48007.	0.7	347
13	Strong influence of water vapor source dynamics on stable isotopes in precipitation observed in Southern Meghalaya, NE India. <i>Earth and Planetary Science Letters</i> , 2010, 292, 212-220.	1.8	272
14	HOW TO AVOID POTENTIAL PITFALLS IN RECURRENCE PLOT BASED DATA ANALYSIS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 1003-1017.	0.7	250
15	Cross recurrence plot based synchronization of time series. <i>Nonlinear Processes in Geophysics</i> , 2002, 9, 325-331.	0.6	227
16	A historical review of recurrence plots. <i>European Physical Journal: Special Topics</i> , 2008, 164, 3-12.	1.2	222
17	Analysis of spatial and temporal extreme monsoonal rainfall over South Asia using complex networks. <i>Climate Dynamics</i> , 2012, 39, 971-987.	1.7	220
18	Nonlinear detection of paleoclimate-variability transitions possibly related to human evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20422-20427.	3.3	208

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19	Identifying causal gateways and mediators in complex spatio-temporal systems. Nature Communications, 2015, 6, 8502.	5.8	207
20	Comparison of correlation analysis techniques for irregularly sampled time series. Nonlinear Processes in Geophysics, 2011, 18, 389-404.	0.6	201
21	Prediction of extreme floods in the eastern Central Andes based on a complex networks approach. Nature Communications, 2014, 5, 5199.	5.8	197
22	Selection of recurrence threshold for signal detection. European Physical Journal: Special Topics, 2008, 164, 45-53.	1.2	194
23	COConstructing Proxy Records from Age models (COPRA). Climate of the Past, 2012, 8, 1765-1779.	1.3	171
24	Complex networks identify spatial patterns of extreme rainfall events of the South American Monsoon System. Geophysical Research Letters, 2013, 40, 4386-4392.	1.5	171
25	Investigating the topology of interacting networks. European Physical Journal B, 2011, 84, 635-651.	0.6	165
26	Multiple landslide clusters record Quaternary climate changes in the northwestern Argentine Andes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 194, 109-121.	1.0	128
27	The geometry of chaotic dynamics "a complex network perspective. European Physical Journal B, 2011, 84, 653-672.	0.6	126
28	Comparing modern and Pleistocene ENSO-like influences in NW Argentina using nonlinear time series analysis methods. Climate Dynamics, 2003, 21, 317-326.	1.7	122
29	Quantifying causal coupling strength: A lag-specific measure for multivariate time series related to transfer entropy. Physical Review E, 2012, 86, 061121.	0.8	114
30	Ambiguities in recurrence-based complex network representations of time series. Physical Review E, 2010, 81, 015101.	0.8	113
31	Aerosol forcing of the position of the intertropical convergence zone since ad 1550. Nature Geoscience, 2015, 8, 195-200.	5.4	112
32	Reliability of Inference of Directed Climate Networks Using Conditional Mutual Information. Entropy, 2013, 15, 2023-2045.	1.1	107
33	Line structures in recurrence plots. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 336, 349-357.	0.9	103
34	A deforestation-induced tipping point for the South American monsoon system. Scientific Reports, 2017, 7, 41489.	1.6	103
35	Generalised recurrence plot analysis for spatial data. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 360, 545-551.	0.9	101
36	The South American rainfall dipole: A complex network analysis of extreme events. Geophysical Research Letters, 2014, 41, 7397-7405.	1.5	94

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37	Recurrence plots 25 years later – Gaining confidence in dynamical transitions. <i>Europhysics Letters</i> , 2013, 101, 20007.	0.7	93
38	Geometric detection of coupling directions by means of inter-system recurrence networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3504-3513.	0.9	87
39	EXTENDED RECURRENCE PLOT ANALYSIS AND ITS APPLICATION TO ERP DATA. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 761-771.	0.7	84
40	Recurrence networks from multivariate signals for uncovering dynamic transitions of horizontal oil-water stratified flows. <i>Europhysics Letters</i> , 2013, 103, 50004.	0.7	84
41	Unified functional network and nonlinear time series analysis for complex systems science: The <code>pyunicorn</code> package. <i>Chaos</i> , 2015, 25, 113101.	1.0	84
42	Topology and seasonal evolution of the network of extreme precipitation over the Indian subcontinent and Sri Lanka. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 901-917.	0.6	81
43	Order patterns recurrence plots in the analysis of ERP data. <i>Cognitive Neurodynamics</i> , 2007, 1, 317-325.	2.3	78
44	Late Holocene Asian summer monsoon dynamics from small but complex networks of paleoclimate data. <i>Climate Dynamics</i> , 2013, 41, 3-19.	1.7	76
45	See-saw relationship of the Holocene East Asian–Australian summer monsoon. <i>Nature Communications</i> , 2016, 7, 12929.	5.8	76
46	Joint Trends in Flood Magnitudes and Spatial Extents Across Europe. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087464.	1.5	75
47	Cave ventilation and rainfall signals in dripwater in a monsoonal setting – a monitoring study from NE India. <i>Chemical Geology</i> , 2015, 402, 111-124.	1.4	72
48	Spatial structures and directionalities in Monsoonal precipitation over South Asia. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 371-381.	0.6	71
49	Identifying complex periodic windows in continuous-time dynamical systems using recurrence-based methods. <i>Chaos</i> , 2010, 20, 043130.	1.0	65
50	Multivariate recurrence network analysis for characterizing horizontal oil-water two-phase flow. <i>Physical Review E</i> , 2013, 88, 032910.	0.8	60
51	Identification of dynamical transitions in marine palaeoclimate records by recurrence network analysis. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 545-562.	0.6	59
52	Linking Holocene drying trends from Lonar Lake in monsoonal central India to North Atlantic cooling events. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 410, 164-178.	1.0	59
53	Simpler methods do it better: Success of Recurrence Quantification Analysis as a general purpose data analysis tool. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3753-3756.	0.9	58
54	Node-weighted measures for complex networks with spatially embedded, sampled, or differently sized nodes. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	58

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55	Finding recurrence networks' threshold adaptively for a specific time series. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 1085-1092.	0.6	58
56	Networks from Flows - From Dynamics to Topology. <i>Scientific Reports</i> , 2014, 4, 4119.	1.6	58
57	Spatiotemporal characteristics and synchronization of extreme rainfall in South America with focus on the Andes Mountain range. <i>Climate Dynamics</i> , 2016, 46, 601-617.	1.7	58
58	Recurrence threshold selection for obtaining robust recurrence characteristics in different embedding dimensions. <i>Chaos</i> , 2018, 28, 085720.	1.0	58
59	Long-term changes in the north-south asymmetry of solar activity: a nonlinear dynamics characterization using visibility graphs. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 1113-1126.	0.6	57
60	A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 5800-5808.	5.9	57
61	Complex network based techniques to identify extreme events and (sudden) transitions in spatio-temporal systems. <i>Chaos</i> , 2015, 25, 097609.	1.0	56
62	Non-linear regime shifts in Holocene Asian monsoon variability: potential impacts on cultural change and migratory patterns. <i>Climate of the Past</i> , 2015, 11, 709-741.	1.3	55
63	Analysis of the dynamic characteristics of combustion instabilities in a pre-mixed lean-burn natural gas engine. <i>Applied Energy</i> , 2016, 183, 746-759.	5.1	54
64	Long-term asymmetry in the wings of the butterfly diagram. <i>Astronomy and Astrophysics</i> , 2009, 503, 197-201.	2.1	53
65	Abrupt transitions in time series with uncertainties. <i>Nature Communications</i> , 2018, 9, 48.	5.8	52
66	Nonlinear time series analysis of dissolved oxygen in the Orbetello Lagoon (Italy). <i>Ecological Modelling</i> , 2007, 203, 339-348.	1.2	49
67	Boundary effects in network measures of spatially embedded networks. <i>Europhysics Letters</i> , 2012, 100, 28002.	0.7	49
68	Unravelling the spatial diversity of Indian precipitation teleconnections via a non-linear multi-scale approach. <i>Nonlinear Processes in Geophysics</i> , 2019, 26, 251-266.	0.6	49
69	Mathematical and Computational Foundations of Recurrence Quantifications. <i>Understanding Complex Systems</i> , 2015, , 3-43.	0.3	49
70	Evaluation of selected recurrence measures in discriminating pre-ictal and inter-ictal periods from epileptic EEG data. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1419-1425.	0.9	48
71	Tropical rainfall over the last two millennia: evidence for a low-latitude hydrologic seesaw. <i>Scientific Reports</i> , 2017, 7, 45809.	1.6	48
72	Wavelet analysis of precipitation extremes over India and teleconnections to climate indices. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 2053-2069.	1.9	48

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73	Network-based identification and characterization of teleconnections on different scales. Scientific Reports, 2019, 9, 8808.	1.6	48
74	The Wiener-Khinchin theorem and recurrence quantification. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6622-6626.	0.9	47
75	Detection of time-delayed interactions in biosignals using symbolic coupling traces. Europhysics Letters, 2009, 87, 10004.	0.7	47
76	A recurrence quantification analysis-based channel-frequency convolutional neural network for emotion recognition from EEG. Chaos, 2018, 28, 085724.	1.0	47
77	Confidence bounds of recurrence-based complexity measures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2245-2250.	0.9	46
78	Coupled interaction between unsteady flame dynamics and acoustic field in a turbulent combustor. Chaos, 2018, 28, 113111.	1.0	46
79	Charge and Hydrophobicity Patterning along the Sequence Predicts the Folding Mechanism and Aggregation of Proteins: A Computational Approach. Journal of Proteome Research, 2004, 3, 1243-1253.	1.8	45
80	Extreme Rainfall of the South American Monsoon System: A Dataset Comparison Using Complex Networks. Journal of Climate, 2015, 28, 1031-1056.	1.2	45
81	Brain signal analysis based on recurrences. Journal of Physiology (Paris), 2009, 103, 315-323.	2.1	43
82	Entropy of weighted recurrence plots. Physical Review E, 2014, 90, 042919.	0.8	43
83	Analysing spatially extended high-dimensional dynamics by recurrence plots. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 894-900.	0.9	43
84	Quantifying the roles of single stations within homogeneous regions using complex network analysis. Journal of Hydrology, 2018, 563, 802-810.	2.3	43
85	How complex climate networks complement eigen techniques for the statistical analysis of climatological data. Climate Dynamics, 2015, 45, 2407-2424.	1.7	41
86	Multi-scale event synchronization analysis for unravelling climate processes: a wavelet-based approach. Nonlinear Processes in Geophysics, 2017, 24, 599-611.	0.6	41
87	Wavelet entropy-based evaluation of intrinsic predictability of time series. Chaos, 2020, 30, 033117.	1.0	40
88	Multiplex recurrence networks. Physical Review E, 2018, 97, 012312.	0.8	39
89	Fingerprint of volcanic forcing on the ENSO-Indian monsoon coupling. Science Advances, 2020, 6, .	4.7	39
90	INFERRING INDIRECT COUPLING BY MEANS OF RECURRENCES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 1099-1111.	0.7	37

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91	Recurrence Quantification Analysis at work: Quasi-periodicity based interpretation of gait force profiles for patients with Parkinson disease. <i>Scientific Reports</i> , 2018, 8, 9102.	1.6	37
92	Singular hydrophobicity patterns and net charge: a mesoscopic principle for protein aggregation/folding. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 343, 348-358.	1.2	36
93	Nonlinear interactions between the Amazon River basin and the Tropical North Atlantic at interannual timescales. <i>Climate Dynamics</i> , 2018, 50, 2951-2969.	1.7	35
94	Understanding the Earth as a Complex System – recent advances in data analysis and modelling in Earth sciences. <i>European Physical Journal: Special Topics</i> , 2009, 174, 1-9.	1.2	34
95	How do global temperature drivers influence each other?. <i>European Physical Journal: Special Topics</i> , 2013, 222, 861-873.	1.2	33
96	Estimating coupling directions in the cardiorespiratory system using recurrence properties. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110624.	1.6	33
97	Correlation Networks from Flows. The Case of Forced and Time-Dependent Advection-Diffusion Dynamics. <i>PLoS ONE</i> , 2016, 11, e0153703.	1.1	33
98	Classifying past climate change in the Chew Bahir basin, southern Ethiopia, using recurrence quantification analysis. <i>Climate Dynamics</i> , 2019, 53, 2557-2572.	1.7	33
99	Climatic and in-cave influences on $\delta^{18}O$ and $\delta^{13}C$ in a stalagmite from northeastern India through the last deglaciation. <i>Quaternary Research</i> , 2017, 88, 458-471.	1.0	32
100	PyRQA – Conducting recurrence quantification analysis on very long time series efficiently. <i>Computers and Geosciences</i> , 2017, 104, 101-108.	2.0	31
101	Recurrence measure of conditional dependence and applications. <i>Physical Review E</i> , 2017, 95, 052206.	0.8	31
102	Optimal design of hydrometric station networks based on complex network analysis. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2235-2251.	1.9	31
103	Distinguishing dynamics using recurrence-time statistics. <i>Physical Review E</i> , 2012, 85, 026217.	0.8	30
104	Climatic volatility, agricultural uncertainty, and the formation, consolidation and breakdown of preindustrial agrarian states. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140458.	1.6	30
105	Non-linear time series analysis of precipitation events using regional climate networks for Germany. <i>Climate Dynamics</i> , 2016, 46, 1065-1074.	1.7	30
106	Recurrence plot analysis of irregularly sampled data. <i>Physical Review E</i> , 2018, 98, .	0.8	29
107	Hydrological and climatological controls on radiocarbon concentrations in a tropical stalagmite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 194, 233-252.	1.6	28
108	Complex networks for tracking extreme rainfall during typhoons. <i>Chaos</i> , 2018, 28, 075301.	1.0	28

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109	On the emergence of large clusters of acoustic power sources at the onset of thermoacoustic instability in a turbulent combustor. <i>Journal of Fluid Mechanics</i> , 2019, 874, 455-482.	1.4	28
110	What we talk about when we talk about seasonality – A transdisciplinary review. <i>Earth-Science Reviews</i> , 2022, 225, 103843.	4.0	28
111	On interrelations of recurrences and connectivity trends between stock indices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4364-4376.	1.2	27
112	Transformation-cost time-series method for analyzing irregularly sampled data. <i>Physical Review E</i> , 2015, 91, 062911.	0.8	27
113	Introduction to focus issue: Recurrence quantification analysis for understanding complex systems. <i>Chaos</i> , 2018, 28, .	1.0	26
114	On the emergence of critical regions at the onset of thermoacoustic instability in a turbulent combustor. <i>Chaos</i> , 2018, 28, 063125.	1.0	26
115	A unified and automated approach to attractor reconstruction. <i>New Journal of Physics</i> , 2021, 23, 033017.	1.2	26
116	Classification of cardiovascular time series based on different coupling structures using recurrence networks analysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110623.	1.6	25
117	Approximation of diagonal line based measures in recurrence quantification analysis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 997-1011.	0.9	25
118	Analysis of the nonlinear dynamics of inter-cycle combustion variations in an ethanol fumigation-diesel dual-fuel engine. <i>Nonlinear Dynamics</i> , 2019, 95, 2555-2574.	2.7	25
119	Power-laws in recurrence networks from dynamical systems. <i>Europhysics Letters</i> , 2012, 98, 48001.	0.7	24
120	Geometric signature of complex synchronisation scenarios. <i>Europhysics Letters</i> , 2013, 102, 30007.	0.7	24
121	Order to chaos transition studies in a DC glow discharge plasma by using recurrence quantification analysis. <i>Chaos, Solitons and Fractals</i> , 2014, 69, 285-293.	2.5	24
122	Visual Analytics for Correlation-Based Comparison of Time Series Ensembles. <i>Computer Graphics Forum</i> , 2015, 34, 411-420.	1.8	23
123	Review: visual analytics of climate networks. <i>Nonlinear Processes in Geophysics</i> , 2015, 22, 545-570.	0.6	23
124	Holocene interaction of maritime and continental climate in Central Europe: New speleothem evidence from Central Germany. <i>Global and Planetary Change</i> , 2019, 176, 144-161.	1.6	23
125	A network-based comparative study of extreme tropical and frontal storm rainfall over Japan. <i>Climate Dynamics</i> , 2019, 53, 521-532.	1.7	22
126	Suppression of thermoacoustic instability by targeting the hubs of the turbulent networks in a bluff body stabilized combustor. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	22

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127	Classifying healthy women and preeclamptic patients from cardiovascular data using recurrence and complex network methods. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 103-110.	1.4	21
128	Correlating the Ancient Maya and Modern European Calendars with High-Precision AMS 14C Dating. <i>Scientific Reports</i> , 2013, 3, 1597.	1.6	21
129	Characterizing the evolution of climate networks. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 705-711.	0.6	21
130	Disentangling the multi-scale effects of sea-surface temperatures on global precipitation: A coupled networks approach. <i>Chaos</i> , 2019, 29, 063116.	1.0	21
131	Border effect corrections for diagonal line based recurrence quantification analysis measures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125977.	0.9	21
132	Mitigation of oscillatory instability in turbulent reactive flows: A novel approach using complex networks. <i>Europhysics Letters</i> , 2019, 128, 14003.	0.7	21
133	Propagation of Strong Rainfall Events from Southeastern South America to the Central Andes. <i>Journal of Climate</i> , 2015, 28, 7641-7658.	1.2	20
134	Measures of complexity for 3D image analysis of trabecular bone. <i>European Physical Journal: Special Topics</i> , 2007, 143, 109-116.	1.2	19
135	Effect of Stochastic Resonance on Bone Loss in Osteopenic Conditions. <i>Physical Review Letters</i> , 2008, 100, 128101.	2.9	19
136	Reconstruction of a system's dynamics from short trajectories. <i>Physical Review E</i> , 2008, 78, 066217.	0.8	18
137	Regional and inter-regional effects in evolving climate networks. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 451-462.	0.6	18
138	Wavelet-based multiscale similarity measure for complex networks. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	18
139	Universality in the emergence of oscillatory instabilities in turbulent flows. <i>Europhysics Letters</i> , 2020, 129, 24004.	0.7	18
140	Recurring types of variability and transitions in the ~ 4620 kyr record of climate change from the Chew Bahir basin, southern Ethiopia. <i>Quaternary Science Reviews</i> , 2021, 266, 106777.	1.4	18
141	Extended recurrence plot and quantification for noisy continuous dynamical systems. <i>Chaos</i> , 2018, 28, 085722.	1.0	16
142	Generalized Synchronization Between ENSO and Hydrological Variables in Colombia: A Recurrence Quantification Approach. <i>Frontiers in Applied Mathematics and Statistics</i> , 2020, 6, .	0.7	16
143	Climate change-induced population pressure drives high rates of lethal violence in the Prehispanic central Andes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117556119.	3.3	16
144	LOCAL MINIMA-BASED RECURRENCE PLOTS FOR CONTINUOUS DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 1065-1075.	0.7	15

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145	Synchronization transition from chaos to limit cycle oscillations when a locally coupled chaotic oscillator grid is coupled globally to another chaotic oscillator. <i>Chaos</i> , 2020, 30, 033121.	1.0	15
146	Monsoon forced evolution of savanna and the spread of agro-pastoralism in peninsular India. <i>Scientific Reports</i> , 2021, 11, 9032.	1.6	15
147	Recurrence analysis of extreme event-like data. <i>Nonlinear Processes in Geophysics</i> , 2021, 28, 213-229.	0.6	15
148	In Search of Determinism-Sensitive Region to Avoid Artefacts in Recurrence Plots. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1850007.	0.7	14
149	Assessing Hydrograph Similarity and Rare Runoff Dynamics by Cross Recurrence Plots. <i>Water Resources Research</i> , 2019, 55, 4704-4726.	1.7	14
150	Universality in spectral condensation. <i>Scientific Reports</i> , 2020, 10, 17405.	1.6	14
151	Detection of dynamical regime transitions with lacunarity as a multiscale recurrence quantification measure. <i>Nonlinear Dynamics</i> , 2021, 104, 3955-3973.	2.7	14
152	A complex network approach to study the extreme precipitation patterns in a river basin. <i>Chaos</i> , 2022, 32, 013113.	1.0	14
153	Comment on "Stochastic analysis of recurrence plots with applications to the detection of deterministic signals" by Rohde et al. [<i>Physica D</i> 237 (2008) 619-629]. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1711-1715.	1.3	13
154	Multiscale recurrence analysis of spatio-temporal data. <i>Chaos</i> , 2015, 25, 123111.	1.0	13
155	Reconstructing multi-mode networks from multivariate time series. <i>Europhysics Letters</i> , 2017, 119, 50008.	0.7	12
156	Investigating landscape phase transitions in Mediterranean rangelands by recurrence analysis. <i>Landscape Ecology</i> , 2018, 33, 1617-1631.	1.9	12
157	Holocene climate forcings and lacustrine regime shifts in the Indian summer monsoon realm. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3842-3853.	1.2	12
158	Recurrence analysis of slow-fast systems. <i>Chaos</i> , 2020, 30, 063152.	1.0	12
159	Recurrence Analysis of Vegetation Indices for Highlighting the Ecosystem Response to Drought Events: An Application to the Amazon Forest. <i>Remote Sensing</i> , 2020, 12, 907.	1.8	12
160	Pacific climate reflected in Waipuna Cave drip water hydrochemistry. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3361-3380.	1.9	12
161	Dynamical regimes and transitions in Plio-Pleistocene Asian monsoon. <i>Europhysics Letters</i> , 2012, 97, 40009.	0.7	11
162	Early-warning signals for Cenozoic climate transitions. <i>Quaternary Science Reviews</i> , 2021, 270, 107177.	1.4	11

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163	An extended singular spectrum transformation (SST) for the investigation of Kenyan precipitation data. <i>Nonlinear Processes in Geophysics</i> , 2013, 20, 467-481.	0.6	10
164	Climate impact on spreading of airborne infectious diseases. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1845-1856.	1.2	10
165	Contrasting pattern of hydrological changes during the past two millennia from central and northern India: Regional climate difference or anthropogenic impact?. <i>Global and Planetary Change</i> , 2018, 161, 97-107.	1.6	10
166	Complex systems approaches for Earth system data analysis. <i>Journal of Physics Complexity</i> , 2021, 2, 011001.	0.9	10
167	Analysis of Bivariate Coupling by Means of Recurrence. , 2008, , 153-182.		10
168	Nonlinear time series analysis of palaeoclimate proxy records. <i>Quaternary Science Reviews</i> , 2021, 274, 107245.	1.4	10
169	Fluctuation of similarity to detect transitions between distinct dynamical regimes in short time series. <i>Physical Review E</i> , 2014, 89, 062908.	0.8	9
170	Multiband Wavelet Age Modeling for a $\sim 4293\text{Åm}$ ($\sim 4600\text{Åkyr}$) Sediment Core From Chew Bahir Basin, Southern Ethiopian Rift. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	9
171	Investigation into the coherence of flame intensity oscillations in a model multi-element rocket combustor using complex networks. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
172	Optimal state space reconstruction via Monte Carlo decision tree search. <i>Nonlinear Dynamics</i> , 2022, 108, 1525-1545.	2.7	9
173	Estimation of sedimentary proxy records together with associated uncertainty. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 1093-1111.	0.6	8
174	Teleconnections in Climate Networks: A Network-of-Networks Approach to Investigate the Influence of Sea Surface Temperature Variability on Monsoon Systems. , 2015, , 23-33.		8
175	Edge anisotropy and the geometric perspective on flow networks. <i>Chaos</i> , 2017, 27, 035802.	1.0	8
176	Fast Computation of Recurrences in Long Time Series. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014, , 17-29.	0.1	8
177	Coping with dating errors in causality estimation. <i>Europhysics Letters</i> , 2017, 117, 10004.	0.7	7
178	Three-dimensional quantification of structures in trabecular bone using measures of complexity. <i>Physical Review E</i> , 2009, 79, 021903.	0.8	6
179	Dynamic Patterns of Expertise: The Case of Orthopedic Medical Diagnosis. <i>PLoS ONE</i> , 2016, 11, e0158820.	1.1	6
180	Investigation of complexity dynamics in a DC glow discharge magnetized plasma using recurrence quantification analysis. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	6

#	ARTICLE	IF	CITATIONS
181	Approximate Recurrence Quantification Analysis (aRQA) in Code of Best Practice. Springer Proceedings in Physics, 2016, , 113-136.	0.1	6
182	Mixed mode oscillations in presence of inverted fireball in an excitable DC glow discharge magnetized plasma. Physics of Plasmas, 2017, 24, .	0.7	6
183	A regime shift in the Sun-Climate connection with the end of the Medieval Climate Anomaly. Scientific Reports, 2017, 7, 11131.	1.6	6
184	A New Centennial Seaâ€Level Record for Antalya, Eastern Mediterranean. Journal of Geophysical Research: Oceans, 2018, 123, 4503-4517.	1.0	6
185	Perturbations and phase transitions in swarm optimization algorithms. Natural Computing, 2019, 18, 579-591.	1.8	6
186	Towards Visual Analytics for the Exploration of Large Sets of Time Series. Springer Proceedings in Physics, 2016, , 3-17.	0.1	6
187	Recurrence-Based Synchronization Analysis of Weakly Coupled Bursting Neurons Under External ELF Fields. Entropy, 2022, 24, 235.	1.1	6
188	Sampling rate-corrected analysis of irregularly sampled time series. Physical Review E, 2022, 105, 024206.	0.8	6
189	The complexity of adviceâ€giving. Complexity, 2009, 15, 28-30.	0.9	5
190	Long range nodeâ€strut analysis of trabecular bone microarchitecture. Medical Physics, 2011, 38, 5003-5011.	1.6	5
191	Scaling behaviour for recurrence-based measures at the edge of chaos. Europhysics Letters, 2015, 112, 10005.	0.7	5
192	Change of influenza pandemics because of climate change: Complex network simulations. Revue D'Epidemiologie Et De Sante Publique, 2018, 66, S424.	0.3	5
193	Analysis of Olive Grove Destruction by Xylella fastidiosa Bacterium on the Land Surface Temperature in Salento Detected Using Satellite Images. Forests, 2021, 12, 1266.	0.9	5
194	Boundary Effects in Network Measures of Spatially Embedded Networks. , 2012, , .		4
195	Unfolding Community Structure in Rainfall Network of Germany Using Complex Network-Based Approach. , 2019, , 179-193.		4
196	Understanding the Interrelationship Between Commodity and Stock Indices Daily Movement Using ACE and Recurrence Analysis. Springer Proceedings in Mathematics and Statistics, 2014, , 211-230.	0.1	4
197	An automated algorithm for the generation of dynamically reconstructed trajectories. Chaos, 2010, 20, 013107.	1.0	3
198	Extended generalized recurrence plot quantification of complex circular patterns. European Physical Journal B, 2017, 90, 1.	0.6	3

#	ARTICLE	IF	CITATIONS
199	Visualizing driving forces of spatially extended systems using the recurrence plot framework. European Physical Journal: Special Topics, 2017, 226, 3273-3285.	1.2	3
200	Prediction of flow dynamics using point processes. Chaos, 2018, 28, 011101.	1.0	3
201	Phase Transitions in Swarm Optimization Algorithms. Lecture Notes in Computer Science, 2018, , 204-216.	1.0	3
202	Predicting the Amplitude of Thermoacoustic Instability Using Universal Scaling Behaviour. , 2021, , .		3
203	Change in the Embedding Dimension as an Indicator of an Approaching Transition. PLoS ONE, 2014, 9, e101014.	1.1	3
204	Beat-to-beat complexity analysis before the onset of ventricular tachycardia. , 2003, , .		2
205	Predicting the Amplitude of Thermoacoustic Instability Using Universal Scaling Behavior. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	2
206	Inferring interdependencies from short time series. , 2017, 1, 51-60.		2
207	Nonlinear time series analysis by means of complex networks. Scientia Sinica: Physica, Mechanica Et Astronomica, 2020, 50, 010509.	0.2	2
208	Symbolic coupling traces for causality analysis of cardiovascular control. , 2011, 2011, 5935-8.		1
209	QUANTIFYING CHANGES IN THE SPATIAL STRUCTURE OF TRABECULAR BONE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250027.	0.7	1
210	Time and Again:. Lecture Notes in Computer Science, 2016, , 258-262.	1.0	1
211	Frequency spectrum recurrence analysis. Scientific Reports, 2020, 10, 21241.	1.6	1
212	Detection of coupling directions with intersystem recurrence networks. IEICE Proceeding Series, 2014, 1, 231-234.	0.0	1
213	Complex Synchronization and Recurrence Analyses – re such Nonlinear Techniques Useful for Brain Oscillation Studies?. Biomedizinische Technik, 2012, 57, .	0.9	0
214	TOCSY - Toolboxes for modelling of dynamical systems and time series. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	0
215	Dinner is ready! Studying the dynamics and semiotics of dinner. Semiotica, 2014, 2014, .	0.2	0
216	Editorial: Recurrence Analysis of Complex Systems Dynamics. Frontiers in Applied Mathematics and Statistics, 2020, 6, .	0.7	0

#	ARTICLE	IF	CITATIONS
217	Network of Networks and the Climate System. IEICE Proceeding Series, 2014, 1, 170-170.	0.0	0
218	Introduction-Time series analysis for Earth, climate and life interactions. Quaternary Science Reviews, 2022, 284, 107475.	1.4	0