

Zuntao Fu

List of Publications by Year in descending order

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92
papers

3,053
citations

279798

23
h-index

161849

54
g-index

95
all docs

95
docs citations

95
times ranked

1366
citing authors

#	ARTICLE	IF	CITATIONS
1	Jacobi elliptic function expansion method and periodic wave solutions of nonlinear wave equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 289, 69-74.	2.1	1,140
2	New Jacobi elliptic function expansion and new periodic solutions of nonlinear wave equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 290, 72-76.	2.1	468
3	New kinds of solutions to Gardner equation. <i>Chaos, Solitons and Fractals</i> , 2004, 20, 301-309.	5.1	80
4	Detrended Partial-Cross-Correlation Analysis: A New Method for Analyzing Correlations in Complex System. <i>Scientific Reports</i> , 2015, 5, 8143.	3.3	80
5	New transformations and new approach to find exact solutions to nonlinear equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 299, 507-512.	2.1	71
6	A brief description to different multi-fractal behaviors of daily wind speed records over China. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4134-4141.	2.1	54
7	Long-range correlations in daily relative humidity fluctuations: A new index to characterize the climate regions over China. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	47
8	Temporalâ€“spatial diversities of long-range correlation for relative humidity over China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 585-594.	2.6	46
9	Different scaling behaviors in daily temperature records over China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 4087-4095.	2.6	44
10	Permutation entropy and statistical complexity quantifier of nonstationarity effect in the vertical velocity records. <i>Physical Review E</i> , 2014, 89, 012905.	2.1	44
11	On the Long-Term Climate Memory in the Surface Air Temperature Records over Antarctica: A Nonnegligible Factor for Trend Evaluation. <i>Journal of Climate</i> , 2015, 28, 5922-5934.	3.2	41
12	New solutions to mKdV equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 326, 364-374.	2.1	39
13	New exact solutions to the KdVâ€“Burgersâ€“Kuramoto equation. <i>Chaos, Solitons and Fractals</i> , 2005, 23, 609-616.	5.1	39
14	Extracting climate memory using Fractional Integrated Statistical Model: A new perspective on climate prediction. <i>Scientific Reports</i> , 2014, 4, 6577.	3.3	38
15	Exact solutions to sine-Gordon-type equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 351, 59-63.	2.1	37
16	The periodic solutions for a class of coupled nonlinear Kleinâ€“Gordon equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 323, 415-420.	2.1	35
17	A universal model to characterize different multi-fractal behaviors of daily temperature records over China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 573-579.	2.6	31
18	Quantifying distinct associations on different temporal scales: comparison of DCCA and Pearson methods. <i>Scientific Reports</i> , 2016, 6, 36759.	3.3	31

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19	Time irreversibility of mean temperature anomaly variations over China. <i>Theoretical and Applied Climatology</i> , 2016, 123, 161-170.	2.8	29
20	Long-term memory in climate variability: A new look based on fractional integral techniques. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,962.	3.3	28
21	Different spatial cross-correlation patterns of temperature records over China: A DCCA study on different time scales. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 400, 71-79.	2.6	27
22	Different multi-fractal behaviors of diurnal temperature range over the north and the south of China. <i>Theoretical and Applied Climatology</i> , 2013, 112, 673-682.	2.8	26
23	Trends of temperature variability: Which variability and what health implications?. <i>Science of the Total Environment</i> , 2021, 768, 144487.	8.0	26
24	Detecting causality from time series in a machine learning framework. <i>Chaos</i> , 2020, 30, 063116.	2.5	24
25	Exact Solutions to Double and Triple Sinh-Gordon Equations. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2004, 59, 933-937.	1.5	23
26	Long-range correlation behaviors for the 0-cm average ground surface temperature and average air temperature over China. <i>Theoretical and Applied Climatology</i> , 2015, 119, 25-31.	2.8	23
27	Multi-scale entropy analysis of vertical wind variation series in atmospheric boundary-layer. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 83-91.	3.3	19
28	The impact of inter-annual variability of annual cycle on long-term persistence of surface air temperature in long historical records. <i>Climate Dynamics</i> , 2018, 50, 1091-1100.	3.8	19
29	Beyond Benford's Law: Distinguishing Noise from Chaos. <i>PLoS ONE</i> , 2015, 10, e0129161.	2.5	19
30	Century-Scale Intensity Modulation of Large-Scale Variability in Long Historical Temperature Records. <i>Journal of Climate</i> , 2014, 27, 1742-1750.	3.2	18
31	Periodic solutions for a class of coupled nonlinear partial differential equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 336, 175-179.	2.1	16
32	Enhanced time series predictability with well-defined structures. <i>Theoretical and Applied Climatology</i> , 2019, 138, 373-385.	2.8	16
33	Breather solutions and breather lattice solutions to the sine-Gordon equation. <i>Physica Scripta</i> , 2007, 76, 15-21.	2.5	15
34	Effects of non-stationarity on the magnitude and sign scaling in the multi-scale vertical velocity increment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 410, 9-16.	2.6	14
35	Percolation Phase Transition of Surface Air Temperature Networks under Attacks of El Niño/La Niña. <i>Scientific Reports</i> , 2016, 6, 26779.	3.3	14
36	Intrinsic correlations and their temporal evolutions between winter-time PNA/EPW and winter drought in the west United States. <i>Scientific Reports</i> , 2016, 6, 19958.	3.3	14

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37	Evaluation of ENSO simulations in CMIP5 models: A new perspective based on percolation phase transition in complex networks. <i>Scientific Reports</i> , 2018, 8, 14912.	3.3	13
38	Process-dependent persistence in precipitation records. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 527, 121459.	2.6	13
39	Power-law behaviour of hourly precipitation intensity and dry spell duration over the United States. <i>International Journal of Climatology</i> , 2020, 40, 2429-2444.	3.5	13
40	Fractional transformation and new solutions to mKdV equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 325, 363-369.	2.1	12
41	Novel exact solutions to the short pulse equation. <i>Applied Mathematics and Computation</i> , 2010, 215, 3899-3905.	2.2	12
42	Nonlinear features of Northern Annular Mode variability. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 449, 390-394.	2.6	12
43	Differential temporal asymmetry among different temperature variables'™ daily fluctuations. <i>Climate Dynamics</i> , 2019, 53, 585-600.	3.8	12
44	Subarea characteristics of the long-range correlations and the index β for daily temperature records over China. <i>Theoretical and Applied Climatology</i> , 2012, 109, 261-270.	2.8	11
45	Comparison of methods for extracting annual cycle with changing amplitude in climate series. <i>Climate Dynamics</i> , 2019, 52, 5059-5070.	3.8	11
46	Reconstructing coupled time series in climate systems using three kinds of machine-learning methods. <i>Earth System Dynamics</i> , 2020, 11, 835-853.	7.1	11
47	The Effects of Non-stationarity on the Clustering Properties of the Boundary-layer Vertical Wind Velocity. <i>Boundary-Layer Meteorology</i> , 2013, 149, 219-230.	2.3	10
48	Nonlinear atmospheric and climate dynamics in China (2003'™2006): A review. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 1077-1085.	4.3	9
49	Regional contrasting DTR'™s predictability over China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 282-292.	2.6	9
50	Systematic identification of causal relations in high-dimensional chaotic systems: application to stratosphere-troposphere coupling. <i>Climate Dynamics</i> , 2020, 55, 2469-2481.	3.8	9
51	Universal scaling behaviors of meteorological variables'™ volatility and relations with original records. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4953-4962.	2.6	8
52	Extended self-similarity based multi-fractal detrended fluctuation analysis: A novel multi-fractal quantifying method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 67, 568-576.	3.3	8
53	A new method of nonlinear causality detection: Reservoir computing Granger causality. <i>Chaos, Solitons and Fractals</i> , 2022, 154, 111675.	5.1	8
54	Structures of equatorial envelope Rossby wave under the influence of new type of diabatic heating. <i>Chaos, Solitons and Fractals</i> , 2004, 22, 335-340.	5.1	7

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55	A systematical way to find breather lattice solutions to the positive mKdV equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 4739-4750.	2.1	7
56	Envelope breather solution and envelope breather lattice solutions to the NLS equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 368, 238-244.	2.1	7
57	Identifying the sources of seasonal predictability based on climate memory analysis and variance decomposition. <i>Climate Dynamics</i> , 2020, 55, 3239-3252.	3.8	7
58	Multiple structures of two-dimensional nonlinear Rossby wave. <i>Chaos, Solitons and Fractals</i> , 2005, 24, 383-390.	5.1	7
59	On the Air–Sea Couplings Over Tropical Pacific: An Instantaneous Coupling Index Using Dynamical Systems Metrics. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
60	From 2D Geostrophic Wind to 3D Vortex Motions. <i>Chinese Journal of Geophysics</i> , 2003, 46, 649-656.	0.2	6
61	Quantifying non-stationarity effects on organization of atmospheric turbulent eddy motion by Benford's law. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 33, 91-98.	3.3	6
62	Power series expansion method and its applications to nonlinear wave equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 309, 234-239.	2.1	5
63	Out-phased decadal precipitation regime shift in China and the United States. <i>Theoretical and Applied Climatology</i> , 2017, 130, 535-544.	2.8	5
64	Comparative study of multiple measures on temporal irreversibility of daily air temperature anomaly variations over China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 523, 1387-1399.	2.6	5
65	The changing extreme values of summer relative humidity in the Tarim Basin in northwestern China. <i>Climate Dynamics</i> , 2022, 58, 3527-3540.	3.8	5
66	Effect of extreme value loss on long-term correlated time series. <i>Theoretical and Applied Climatology</i> , 2012, 109, 133-140.	2.8	4
67	Exact coherent structures in the (2+1)-dimensional KdV equations. <i>Applied Mathematical Modelling</i> , 2013, 37, 3102-3111.	4.2	4
68	Could network analysis of horizontal visibility graphs be faithfully used to infer long-term memory properties in real-world time series?. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 79, 104908.	3.3	4
69	Contrasting stratospheric–tropospheric multi-fractal behaviors in NAM variability. <i>Climate Dynamics</i> , 2020, 54, 37-52.	3.8	4
70	Evaluation of the ability of regional climate models and a statistical model to represent the spatial characteristics of extreme precipitation. <i>International Journal of Climatology</i> , 2020, 40, 6612-6628.	3.5	4
71	Regional compound humidity-heat extremes in the mid-lower reaches of the Yangtze River: a dynamical systems perspective. <i>Environmental Research Letters</i> , 2022, 17, 064032.	5.2	4
72	The structure and bifurcation of atmospheric motions. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 557-561.	4.3	3

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73	Periodic structures of oceanic Rossby wave under the influence of wind stress. Chaos, Solitons and Fractals, 2005, 26, 1467-1473.	5.1	3
74	Exact coherent structures for coupled integrable dispersionless equations. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2362-2371.	3.3	3
75	Impact of previous one-step variation in positively long-range correlated processes. Theoretical and Applied Climatology, 2016, 124, 339-347.	2.8	3
76	Discrepancies in surface temperature between NCEP reanalysis data and station observations over China and their implications. Atmospheric and Oceanic Science Letters, 2021, 14, 100008.	1.3	3
77	Asymmetry of daily mean temperature series over China and its frontal mechanism. International Journal of Climatology, 0, , .	3.5	3
78	A Secular Shift of the Madden-Julian Oscillation and Its Relation to Western Pacific Ocean Warming. Geophysical Research Letters, 2021, 48, e2021GL095400.	4.0	3
79	Spring onset forecast using harmonic analysis on daily mean temperature in Germany. Environmental Research Letters, 2020, 15, 104069.	5.2	3
80	Evaluation of re-analyses over China based on the temporal asymmetry of daily temperature variability. Theoretical and Applied Climatology, 2022, 147, 753-765.	2.8	3
81	On Some Classes of Breather Lattice Solutions to the sinh-Gordon Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 555-563.	1.5	2
82	Identifying the scale-dependent motifs in atmospheric surface layer by ordinal pattern analysis. Communications in Nonlinear Science and Numerical Simulation, 2018, 60, 50-61.	3.3	2
83	Dynamical systems persistence parameter of sea surface temperature and its associations with regional averaged index over the tropical Pacific. International Journal of Climatology, 0, , .	3.5	2
84	Combinability of Travelling Wave Solutions to Nonlinear Evolution Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 623-628.	1.5	1
85	Exact Jacobian Elliptic Function Solutions To The Double Sine-Gordon Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2005, 60, 301-312.	1.5	1
86	Some Properties of the Elliptic Ordinary Differential Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2005, 60, 566-572.	1.5	1
87	Novel solutions to the combined dispersion equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1826-1829.	2.1	1
88	Progress in the study of nonlinear atmospheric dynamics and predictability of weather and climate in China (2007-2011). Advances in Atmospheric Sciences, 2012, 29, 1048-1062.	4.3	1
89	Spiral Patterns of the Rossby Wave. Chinese Journal of Geophysics, 2003, 46, 834-843.	0.2	0
90	Nonlinear strength quantifier based on phase correlation. Physica A: Statistical Mechanics and Its Applications, 2020, 542, 123492.	2.6	0

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91	Amplitude modulation of relative humidity by wind in Northeast China: the formation of variance annual cycle in relative humidity. <i>Climate Dynamics</i> , 2022, 59, 1133-1142.	3.8	0
92	A Dynamical Systems Perspective to Characterize the El Niño Diversity in Spatiotemporal Patterns. <i>Frontiers in Physics</i> , 0, 10, .	2.1	0