

# Zuntao Fu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2039170/publications.pdf>

Version: 2024-02-01

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	Evaluation of re-analyses over China based on the temporal asymmetry of daily temperature variability. <i>Theoretical and Applied Climatology</i> , 2022, 147, 753-765.	2.8	3
2	A new method of nonlinear causality detection: Reservoir computing Granger causality. <i>Chaos, Solitons and Fractals</i> , 2022, 154, 111675.	5.1	8
3	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
4	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
5	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
6	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
7	Discrepancies in surface temperature between NCEP reanalysis data and station observations over China and their implications. <i>Atmospheric and Oceanic Science Letters</i> , 2021, 14, 100008.	1.3	3
8	Trends of temperature variability: Which variability and what health implications?. <i>Science of the Total Environment</i> , 2021, 768, 144487.	8.0	26
9	A Secular Shift of the Madden–Julian Oscillation and Its Relation to Western Pacific Ocean Warming. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095400.	4.0	3
10	Contrasting stratospheric–tropospheric multi-fractal behaviors in NAM variability. <i>Climate Dynamics</i> , 2020, 54, 37-52.	3.8	4
11	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
12	Nonlinear strength quantifier based on phase correlation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 542, 123492.	2.6	0
13	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
14	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
15	Detecting causality from time series in a machine learning framework. <i>Chaos</i> , 2020, 30, 063116.	2.5	24
16	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
17	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
18	Spring onset forecast using harmonic analysis on daily mean temperature in Germany. <i>Environmental Research Letters</i> , 2020, 15, 104069.	5.2	3

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Regional contrasting DTR's predictability over China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 282-292.	2.6	9
22	Process-dependent persistence in precipitation records. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 527, 121459.	2.6	13
23	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
24	Enhanced time series predictability with well-defined structures. <i>Theoretical and Applied Climatology</i> , 2019, 138, 373-385.	2.8	16
25	Comparison of methods for extracting annual cycle with changing amplitude in climate series. <i>Climate Dynamics</i> , 2019, 52, 5059-5070.	3.8	11
26	Differential temporal asymmetry among different temperature variables' daily fluctuations. <i>Climate Dynamics</i> , 2019, 53, 585-600.	3.8	12
27	Identifying the scale-dependent motifs in atmospheric surface layer by ordinal pattern analysis. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 60, 50-61.	3.3	2
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	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
30	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
31	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
32	Quantifying distinct associations on different temporal scales: comparison of DCCA and Pearson methods. <i>Scientific Reports</i> , 2016, 6, 36759.	3.3	31
33	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
34	Time irreversibility of mean temperature anomaly variations over China. <i>Theoretical and Applied Climatology</i> , 2016, 123, 161-170.	2.8	29
35	Nonlinear features of Northern Annular Mode variability. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 449, 390-394.	2.6	12
36	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

#	ARTICLE	IF	CITATIONS
37	Impact of previous one-step variation in positively long-range correlated processes. Theoretical and Applied Climatology, 2016, 124, 339-347.	2.8	3
38	On the Long-Term Climate Memory in the Surface Air Temperature Records over Antarctica: A Nonnegligible Factor for Trend Evaluation. Journal of Climate, 2015, 28, 5922-5934.	3.2	41
39	Detrended Partial-Cross-Correlation Analysis: A New Method for Analyzing Correlations in Complex System. Scientific Reports, 2015, 5, 8143.	3.3	80
40	Long-range correlation behaviors for the 0-cm average ground surface temperature and average air temperature over China. Theoretical and Applied Climatology, 2015, 119, 25-31.	2.8	23
41	Beyond Benford's Law: Distinguishing Noise from Chaos. PLoS ONE, 2015, 10, e0129161.	2.5	19
42	Permutation entropy and statistical complexity quantifier of nonstationarity effect in the vertical velocity records. Physical Review E, 2014, 89, 012905.	2.1	44
43	Different spatial cross-correlation patterns of temperature records over China: A DCCA study on different time scales. Physica A: Statistical Mechanics and Its Applications, 2014, 400, 71-79.	2.6	27
44	Effects of non-stationarity on the magnitude and sign scaling in the multi-scale vertical velocity increment. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 9-16.	2.6	14
45	Century-Scale Intensity Modulation of Large-Scale Variability in Long Historical Temperature Records. Journal of Climate, 2014, 27, 1742-1750.	3.2	18
46	Multi-scale entropy analysis of vertical wind variation series in atmospheric boundary-layer. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 83-91.	3.3	19
47	Extracting climate memory using Fractional Integrated Statistical Model: A new perspective on climate prediction. Scientific Reports, 2014, 4, 6577.	3.3	38
48	The Effects of Non-stationarity on the Clustering Properties of the Boundary-layer Vertical Wind Velocity. Boundary-Layer Meteorology, 2013, 149, 219-230.	2.3	10
49	Exact coherent structures in the (2+1)-dimensional KdV equations. Applied Mathematical Modelling, 2013, 37, 3102-3111.	4.2	4
50	Different multi-fractal behaviors of diurnal temperature range over the north and the south of China. Theoretical and Applied Climatology, 2013, 112, 673-682.	2.8	26
51	Long-term memory in climate variability: A new look based on fractional integral techniques. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,962.	3.3	28
52	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
53	Universal scaling behaviors of meteorological variables' volatility and relations with original records. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4953-4962.	2.6	8
54	Effect of extreme value loss on long-term correlated time series. Theoretical and Applied Climatology, 2012, 109, 133-140.	2.8	4

#	ARTICLE	IF	CITATIONS
55	Subarea characteristics of the long-range correlations and the index $\beta$ for daily temperature records over China. Theoretical and Applied Climatology, 2012, 109, 261-270.	2.8	11
56	Exact coherent structures for coupled integrable dispersionless equations. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2362-2371.	3.3	3
57	Different scaling behaviors in daily temperature records over China. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 4087-4095.	2.6	44
58	Novel exact solutions to the short pulse equation. Applied Mathematics and Computation, 2010, 215, 3899-3905.	2.2	12
59	Novel solutions to the combined dispersion equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1826-1829.	2.1	1
60	A brief description to different multi-fractal behaviors of daily wind speed records over China. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4134-4141.	2.1	54
61	A universal model to characterize different multi-fractal behaviors of daily temperature records over China. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 573-579.	2.6	31
62	A systematical way to find breather lattice solutions to the positive mKdV equation. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 4739-4750.	2.1	7
63	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
64	Breather solutions and breather lattice solutions to the sine-Gordon equation. Physica Scripta, 2007, 76, 15-21.	2.5	15
65	Long-range correlations in daily relative humidity fluctuations: A new index to characterize the climate regions over China. Geophysical Research Letters, 2007, 34, .	4.0	47
66	Temporal-spatial diversities of long-range correlation for relative humidity over China. Physica A: Statistical Mechanics and Its Applications, 2007, 383, 585-594.	2.6	46
67	Envelope breather solution and envelope breather lattice solutions to the NLS equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 238-244.	2.1	7
68	Nonlinear atmospheric and climate dynamics in China (2003-2006): A review. Advances in Atmospheric Sciences, 2007, 24, 1077-1085.	4.3	9
69	Exact solutions to sine-Gordon-type equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 59-63.	2.1	37
70	Periodic solutions for a class of coupled nonlinear partial differential equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 336, 175-179.	2.1	16
71	New exact solutions to the KdV-Burgers-Kuramoto equation. Chaos, Solitons and Fractals, 2005, 23, 609-616.	5.1	39
72	Periodic structures of oceanic Rossby wave under the influence of wind stress. Chaos, Solitons and Fractals, 2005, 26, 1467-1473.	5.1	3

#	ARTICLE	IF	CITATIONS
73	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
74	Some Properties of the Elliptic Ordinary Differential Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2005, 60, 566-572.	1.5	1
75	Multiple structures of two-dimensional nonlinear Rossby wave. Chaos, Solitons and Fractals, 2005, 24, 383-390.	5.1	7
76	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
77	The structure and bifurcation of atmospheric motions. Advances in Atmospheric Sciences, 2004, 21, 557-561.	4.3	3
78	New kinds of solutions to Gardner equation. Chaos, Solitons and Fractals, 2004, 20, 301-309.	5.1	80
79	The periodic solutions for a class of coupled nonlinear Klein-Gordon equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 415-420.	2.1	35
80	Fractional transformation and new solutions to mKdV equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 325, 363-369.	2.1	12
81	New solutions to mKdV equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 364-374.	2.1	39
82	Structures of equatorial envelope Rossby wave under the influence of new type of diabatic heating. Chaos, Solitons and Fractals, 2004, 22, 335-340.	5.1	7
83	Exact Solutions to Double and Triple Sinh-Gordon Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 933-937.	1.5	23
84	Power series expansion method and its applications to nonlinear wave equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 309, 234-239.	2.1	5
85	Spiral Patterns of the Rossby Wave. Chinese Journal of Geophysics, 2003, 46, 834-843.	0.2	0
86	From 2D Geostrophic Wind to 3D Vortex Motions. Chinese Journal of Geophysics, 2003, 46, 649-656.	0.2	6
87	New transformations and new approach to find exact solutions to nonlinear equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 507-512.	2.1	71
88	Jacobi elliptic function expansion method and periodic wave solutions of nonlinear wave equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 69-74.	2.1	1,140
89	New Jacobi elliptic function expansion and new periodic solutions of nonlinear wave equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 290, 72-76.	2.1	468
90	Asymmetry of daily mean temperature series over China and its frontal mechanism. International Journal of Climatology, 0, , .	3.5	3

#	ARTICLE	IF	CITATIONS
91	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
92	A Dynamical Systems Perspective to Characterize the El Niño Diversity in Spatiotemporal Patterns. Frontiers in Physics, 0, 10, .	2.1	0