

Zhauhua Wu

List of Publications by Year in descending order

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72
papers

13,940
citations

136740

32
h-index

95083

68
g-index

74
all docs

74
docs citations

74
times ranked

10498
citing authors

#	ARTICLE	IF	CITATIONS
1	ENSEMBLE EMPIRICAL MODE DECOMPOSITION: A NOISE-ASSISTED DATA ANALYSIS METHOD. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 1-41.	0.6	6,205
2	A study of the characteristics of white noise using the empirical mode decomposition method. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 1597-1611.	1.0	1,384
3	A review on Hilbert–Huang transform: Method and its applications to geophysical studies. <i>Reviews of Geophysics</i> , 2008, 46, .	9.0	1,355
4	On the trend, detrending, and variability of nonlinear and nonstationary time series. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14889-14894.	3.3	729
5	ON INSTANTANEOUS FREQUENCY. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 177-229.	0.6	520
6	Evolution of land surface air temperature trend. <i>Nature Climate Change</i> , 2014, 4, 462-466.	8.1	456
7	Empirical Mode Decomposition-Based Time-Frequency Analysis of Multivariate Signals: The Power of Adaptive Data Analysis. <i>IEEE Signal Processing Magazine</i> , 2013, 30, 74-86.	4.6	348
8	On the time-varying trend in global-mean surface temperature. <i>Climate Dynamics</i> , 2011, 37, 759.	1.7	342
9	THE MULTI-DIMENSIONAL ENSEMBLE EMPIRICAL MODE DECOMPOSITION METHOD. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 339-372.	0.6	331
10	Noise and poise: Enhancement of postural complexity in the elderly with a stochastic-resonance–based therapy. <i>Europhysics Letters</i> , 2007, 77, 68008.	0.7	185
11	Increasing flooding hazard in coastal communities due to rising sea level: Case study of Miami Beach, Florida. <i>Ocean and Coastal Management</i> , 2016, 126, 1-8.	2.0	175
12	ON INTRINSIC MODE FUNCTION. <i>Advances in Adaptive Data Analysis</i> , 2010, 02, 277-293.	0.6	148
13	The modulated annual cycle: an alternative reference frame for climate anomalies. <i>Climate Dynamics</i> , 2008, 31, 823-841.	1.7	140
14	A Shallow CISK, Deep Equilibrium Mechanism for the Interaction between Large-Scale Convection and Large-Scale Circulations in the Tropics. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 377-392.	0.6	95
15	THE TIME-DEPENDENT INTRINSIC CORRELATION BASED ON THE EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2010, 02, 233-265.	0.6	90
16	ON THE FILTERING PROPERTIES OF THE EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2010, 02, 397-414.	0.6	86
17	On Holo-Hilbert spectral analysis: a full informational spectral representation for nonlinear and non-stationary data. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150206.	1.6	75
18	Changes in the Amplitude of the Temperature Annual Cycle in China and Their Implication for Climate Change Research. <i>Journal of Climate</i> , 2011, 24, 5292-5302.	1.2	67

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19	On Changing El Niño: A View from Time-Varying Annual Cycle, Interannual Variability, and Mean State. <i>Journal of Climate</i> , 2011, 24, 6486-6500.	1.2	65
20	ON HILBERT SPECTRAL REPRESENTATION: A TRUE TIME-FREQUENCY REPRESENTATION FOR NONLINEAR AND NONSTATIONARY DATA. <i>Advances in Adaptive Data Analysis</i> , 2011, 03, 63-93.	0.6	60
21	Connection of stratospheric QBO with global atmospheric general circulation and tropical SST. Part I: methodology and composite life cycle. <i>Climate Dynamics</i> , 2012, 38, 1-23.	1.7	60
22	Vertical Structure of Convective Heating and the Three-Dimensional Structure of the Forced Circulation on an Equatorial Beta Plane*. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2169-2187.	0.6	58
23	On the secular change of spring onset at Stockholm. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	58
24	STATISTICAL SIGNIFICANCE TEST OF INTRINSIC MODE FUNCTIONS. <i>Interdisciplinary Mathematical Sciences</i> , 2005, , 107-127.	0.4	51
25	The intensification and shift of the annual North Atlantic Oscillation in a global warming scenario simulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 112-124.	0.8	49
26	The role of changes in the annual cycle in earlier onset of climatic spring in northern China. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 284-296.	1.9	45
27	Altered phase interactions between spontaneous blood pressure and flow fluctuations in type 2 diabetes mellitus: Nonlinear assessment of cerebral autoregulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2279-2292.	1.2	44
28	Trends in temperature extremes in association with weather-intraseasonal fluctuations in eastern China. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 297-309.	1.9	44
29	On multi-timescale variability of temperature in China in modulated annual cycle reference frame. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 1169-1182.	1.9	43
30	Spatiotemporal variability of NO ₂ and PM _{2.5} over Eastern China: observational and model analyses with a novel statistical method. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12933-12952.	1.9	42
31	A VARIANT OF THE EMD METHOD FOR MULTI-SCALE DATA. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 483-516.	0.6	40
32	Changing rapid weather variability increases influenza epidemic risk in a warming climate. <i>Environmental Research Letters</i> , 2020, 15, 044004.	2.2	40
33	Thermally Driven Tropical Circulations under Rayleigh Friction and Newtonian Cooling: Analytic Solutions*. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 724-741.	0.6	33
34	Use of Nakagami Statistics and Empirical Mode Decomposition for Ultrasound Tissue Characterization by a Nonfocused Transducer. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 2055-2068.	0.7	29
35	ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport. <i>National Science Review</i> , 2021, 8, nwaa132.	4.6	28
36	Rayleigh Friction, Newtonian Cooling, and the Linear Response to Steady Tropical Heating*. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 1937-1957.	0.6	27

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37	Fast Multidimensional Ensemble Empirical Mode Decomposition Using a Data Compression Technique. <i>Journal of Climate</i> , 2014, 27, 3492-3504.	1.2	23
38	Fast multidimensional ensemble empirical mode decomposition for the analysis of big spatio-temporal datasets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150197.	1.6	23
39	Connection of the stratospheric QBO with global atmospheric general circulation and tropical SST. Part II: interdecadal variations. <i>Climate Dynamics</i> , 2012, 38, 25-43.	1.7	22
40	REDUCTIONS OF NOISE AND UNCERTAINTY IN ANNUAL GLOBAL SURFACE TEMPERATURE ANOMALY DATA. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 447-460.	0.6	21
41	SOME CONSIDERATIONS ON PHYSICAL ANALYSIS OF DATA. <i>Advances in Adaptive Data Analysis</i> , 2011, 03, 95-113.	0.6	21
42	Thermally Forced Surface Winds on an Equatorial Beta Plane*. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 2029-2037.	0.6	19
43	Projection of global mean surface air temperature changes in next 40 years: Uncertainties of climate models and an alternative approach. <i>Science China Earth Sciences</i> , 2011, 54, 1400-1406.	2.3	19
44	The Role of Ocean Dynamics in the Interaction between the Atlantic Meridional and Equatorial Modes. <i>Journal of Climate</i> , 2012, 25, 3583-3598.	1.2	19
45	Causes of low frequency North Atlantic SST variability in a coupled GCM. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	17
46	Influences of tropical-extratropical interaction on the multidecadal AMOC variability in the NCEP climate forecast system. <i>Climate Dynamics</i> , 2012, 39, 531-555.	1.7	17
47	Intercomparison between observed and simulated variability in global ocean heat content using empirical mode decomposition, part I: modulated annual cycle. <i>Climate Dynamics</i> , 2013, 41, 2797-2815.	1.7	17
48	Sea Surface Temperature Anomalies off Baja California: A Possible Precursor of ENSO. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1529-1537.	0.6	17
49	Detecting Signals from Data with Noise: Theory and Applications. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 1489-1504.	0.6	16
50	Seasonal to decadal spatiotemporal variations of the global ocean carbon sink. <i>Global Change Biology</i> , 2022, 28, 1786-1797.	4.2	16
51	HHT ANALYSIS OF THE NONLINEAR AND NON-STATIONARY ANNUAL CYCLE OF DAILY SURFACE AIR TEMPERATURE DATA. <i>Interdisciplinary Mathematical Sciences</i> , 2005, , 187-209.	0.4	15
52	Spatiotemporal evolution of the chlorophyll a trend in the North Atlantic Ocean. <i>Science of the Total Environment</i> , 2018, 612, 1141-1148.	3.9	12
53	Increase of Atmospheric Methane Observed from Space-Borne and Ground-Based Measurements. <i>Remote Sensing</i> , 2019, 11, 964.	1.8	12
54	Understanding Long-Term Variations in Surface Ozone in United States (U.S.) National Parks. <i>Atmosphere</i> , 2018, 9, 125.	1.0	11

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55	Delineation of thermodynamic and dynamic responses to sea surface temperature forcing associated with El Niño. <i>Climate Dynamics</i> , 2018, 51, 4329-4344.	1.7	9
56	Deep Atlantic Ocean Warming Facilitated by the Deep Western Boundary Current and Equatorial Kelvin Waves. <i>Journal of Climate</i> , 2018, 31, 8541-8555.	1.2	9
57	Ozone Trends during 1979–2019 over Tibetan Plateau Derived from Satellite Observations. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	8
58	THE UNIQUENESS OF THE INSTANTANEOUS FREQUENCY BASED ON INTRINSIC MODE FUNCTION. <i>Advances in Adaptive Data Analysis</i> , 2013, 05, 1350011.	0.6	7
59	Using Holo-Hilbert spectral analysis to quantify the modulation of Dansgaard-Oeschger events by obliquity. <i>Quaternary Science Reviews</i> , 2018, 192, 282-299.	1.4	7
60	Enhanced Feedback between Shallow Convection and Low-Level Moisture Convergence Leads to Improved Simulation of MJO Eastward Propagation. <i>Journal of Climate</i> , 2022, 35, 591-615.	1.2	6
61	The Completeness of Eigenfunctions of the Tidal Equation on an Equatorial Beta Plane*. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 769-774.	0.6	5
62	MODEL VALIDATION BASED ON ENSEMBLE EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2010, 02, 415-428.	0.6	5
63	STATISTICAL SIGNIFICANCE TEST OF INTRINSIC MODE FUNCTIONS. <i>Interdisciplinary Mathematical Sciences</i> , 2014, , 149-169.	0.4	5
64	Noninstantaneous Wave-CISK for the Interaction between Convective Heating and Low-Level Moisture Convergence in the Tropics. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 2083-2101.	0.6	5
65	Isolating spatiotemporally local mixed Rossby-gravity waves using multi-dimensional ensemble empirical mode decomposition. <i>Climate Dynamics</i> , 2020, 54, 1383-1405.	1.7	3
66	On the physical origin of the semiannual component of surface air temperature over oceans. <i>Climate Dynamics</i> , 2022, 59, 2137-2149.	1.7	2
67	Spatiotemporal propagating decadal signal of ocean heat content and thermocline depth identified in the tropical Pacific. <i>Science of the Total Environment</i> , 2022, 838, 155972.	3.9	2
68	Moisture Modes of Tropical Intraseasonal Oscillations—High Order and Anti-Symmetric Solutions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	1
69	ENSEMBLE EMPIRICAL MODE DECOMPOSITION AND ITS MULTI-DIMENSIONAL EXTENSIONS. <i>Interdisciplinary Mathematical Sciences</i> , 2014, , 27-46.	0.4	0
70	Reply to 'Spatiotemporal patterns of warming'. <i>Nature Climate Change</i> , 2014, 4, 846-848.	8.1	0
71	Data concerning statistical relation between obliquity and Dansgaard–Oeschger events. <i>Data in Brief</i> , 2019, 23, 103727.	0.5	0
72	Convective Response in a Cloud-permitting Simulation of the MJO: Time Scales and Processes. <i>Journals of the Atmospheric Sciences</i> , 2022, , .	0.6	0