

Zhauhua Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

10,233
citations

31
h-index

74
g-index

74
ext. papers

12,189
ext. citations

4.9
avg, IF

6.74
L-index

#	Paper	IF	Citations
71	Spatiotemporal propagating decadal signal of ocean heat content and thermocline depth identified in the tropical Pacific.. <i>Science of the Total Environment</i> , 2022 , 155972	10.2	0
70	Enhanced Feedback between Shallow Convection and Low-level Moisture Convergence Leads to Improved Simulation of MJO Eastward Propagation. <i>Journal of Climate</i> , 2021 , 1-74	4.4	0
69	ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport. <i>National Science Review</i> , 2021 , 8, nwa132	10.8	10
68	Seasonal to decadal spatiotemporal variations of the global ocean carbon sink. <i>Global Change Biology</i> , 2021 ,	11.4	1
67	Changing rapid weather variability increases influenza epidemic risk in a warming climate. <i>Environmental Research Letters</i> , 2020 , 15, 044004	6.2	17
66	Isolating spatiotemporally local mixed Rossby-gravity waves using multi-dimensional ensemble empirical mode decomposition. <i>Climate Dynamics</i> , 2020 , 54, 1383-1405	4.2	0
65	Increase of Atmospheric Methane Observed from Space-Borne and Ground-Based Measurements. <i>Remote Sensing</i> , 2019 , 11, 964	5	8
64	Data concerning statistical relation between obliquity and Dansgaard-Oeschger events. <i>Data in Brief</i> , 2019 , 23, 103727	1.2	
63	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	2.1	4
62	Spatiotemporal evolution of the chlorophyll a trend in the North Atlantic Ocean. <i>Science of the Total Environment</i> , 2018 , 612, 1141-1148	10.2	7
61	Spatiotemporal variability of NO ₂ and PM _{2.5} over Eastern China: observational and model analyses with a novel statistical method 2018 ,		1
60	Understanding Long-Term Variations in Surface Ozone in United States (U.S.) National Parks. <i>Atmosphere</i> , 2018 , 9, 125	2.7	8
59	Deep Atlantic Ocean Warming Facilitated by the Deep Western Boundary Current and Equatorial Kelvin Waves. <i>Journal of Climate</i> , 2018 , 31, 8541-8555	4.4	5
58	Using Holo-Hilbert spectral analysis to quantify the modulation of Dansgaard-Oeschger events by obliquity. <i>Quaternary Science Reviews</i> , 2018 , 192, 282-299	3.9	3
57	Delineation of thermodynamic and dynamic responses to sea surface temperature forcing associated with El Niño. <i>Climate Dynamics</i> , 2018 , 51, 4329-4344	4.2	5
56	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	6.8	32
55	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	3	12

54	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	3	46
53	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	3.9	108
52	Evolution of land surface air temperature trend. <i>Nature Climate Change</i> , 2014 , 4, 462-466	21.4	319
51	Reply to Qpatiotemporal patterns of warmingQ <i>Nature Climate Change</i> , 2014 , 4, 846-848	21.4	
50	STATISTICAL SIGNIFICANCE TEST OF INTRINSIC MODE FUNCTIONS. <i>Interdisciplinary Mathematical Sciences</i> , 2014 , 149-169	0.5	3
49	ENSEMBLE EMPIRICAL MODE DECOMPOSITION AND ITS MULTI-DIMENSIONAL EXTENSIONS. <i>Interdisciplinary Mathematical Sciences</i> , 2014 , 27-46	0.5	
48	Fast Multidimensional Ensemble Empirical Mode Decomposition Using a Data Compression Technique. <i>Journal of Climate</i> , 2014 , 27, 3492-3504	4.4	15
47	Sea Surface Temperature Anomalies off Baja California: A Possible Precursor of ENSO. <i>Journals of the Atmospheric Sciences</i> , 2014 , 71, 1529-1537	2.1	16
46	THE UNIQUENESS OF THE INSTANTANEOUS FREQUENCY BASED ON INTRINSIC MODE FUNCTION. <i>Advances in Adaptive Data Analysis</i> , 2013 , 05, 1350011		7
45	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	4.2	12
44	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	9.4	255
43	Detecting Signals from Data with Noise: Theory and Applications. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 1489-1504	2.1	14
42	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	4.2	17
41	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	4.2	52
40	The Role of Ocean Dynamics in the Interaction between the Atlantic Meridional and Equatorial Modes. <i>Journal of Climate</i> , 2012 , 25, 3583-3598	4.4	19
39	Influences of tropical-extratropical interaction on the multidecadal AMOC variability in the NCEP climate forecast system. <i>Climate Dynamics</i> , 2012 , 39, 531-555	4.2	15
38	SOME CONSIDERATIONS ON PHYSICAL ANALYSIS OF DATA. <i>Advances in Adaptive Data Analysis</i> , 2011 , 03, 95-113		19
37	On the time-varying trend in global-mean surface temperature. <i>Climate Dynamics</i> , 2011 , 37, 759-773	4.2	285

36	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	2.9	37
35	Trends in temperature extremes in association with weather-intraseasonal fluctuations in eastern China. <i>Advances in Atmospheric Sciences</i> , 2011 , 28, 297-309	2.9	36
34	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	4.6	18
33	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		46
32	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	4.4	56
31	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	4.4	49
30	ON THE FILTERING PROPERTIES OF THE EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2010 , 02, 397-414		62
29	ON INTRINSIC MODE FUNCTION. <i>Advances in Adaptive Data Analysis</i> , 2010 , 02, 277-293		102
28	THE TIME-DEPENDENT INTRINSIC CORRELATION BASED ON THE EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2010 , 02, 233-265		69
27	MODEL VALIDATION BASED ON ENSEMBLE EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2010 , 02, 415-428		5
26	On multi-timescale variability of temperature in China in modulated annual cycle reference frame. <i>Advances in Atmospheric Sciences</i> , 2010 , 27, 1169-1182	2.9	33
25	REDUCTIONS OF NOISE AND UNCERTAINTY IN ANNUAL GLOBAL SURFACE TEMPERATURE ANOMALY DATA. <i>Advances in Adaptive Data Analysis</i> , 2009 , 01, 447-460		13
24	THE MULTI-DIMENSIONAL ENSEMBLE EMPIRICAL MODE DECOMPOSITION METHOD. <i>Advances in Adaptive Data Analysis</i> , 2009 , 01, 339-372		254
23	A VARIANT OF THE EMD METHOD FOR MULTI-SCALE DATA. <i>Advances in Adaptive Data Analysis</i> , 2009 , 01, 483-516		33
22	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, 2055-68	3.5	24
21	ON INSTANTANEOUS FREQUENCY. <i>Advances in Adaptive Data Analysis</i> , 2009 , 01, 177-229		409
20	On the secular change of spring onset at Stockholm. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	55
19	ENSEMBLE EMPIRICAL MODE DECOMPOSITION: A NOISE-ASSISTED DATA ANALYSIS METHOD. <i>Advances in Adaptive Data Analysis</i> , 2009 , 01, 1-41		4317

18	The modulated annual cycle: an alternative reference frame for climate anomalies. <i>Climate Dynamics</i> , 2008 , 31, 823-841	4.2	109
17	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	3.3	38
16	A review on Hilbert-Huang transform: Method and its applications to geophysical studies. <i>Reviews of Geophysics</i> , 2008 , 46,	23.1	1009
15	Noise and poise: Enhancement of postural complexity in the elderly with a stochastic-resonance-based therapy. <i>Europhysics Letters</i> , 2007 , 77, 68008	1.6	159
14	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, 14889-94	11.5	595
13	STATISTICAL SIGNIFICANCE TEST OF INTRINSIC MODE FUNCTIONS. <i>Interdisciplinary Mathematical Sciences</i> , 2005 , 107-127	0.5	32
12	HHT ANALYSIS OF THE NONLINEAR AND NON-STATIONARY ANNUAL CYCLE OF DAILY SURFACE AIR TEMPERATURE DATA. <i>Interdisciplinary Mathematical Sciences</i> , 2005 , 187-209	0.5	11
11	The Completeness of Eigenfunctions of the Tidal Equation on an Equatorial Beta Plane*. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 769-774	2.1	5
10	Causes of low frequency North Atlantic SST variability in a coupled GCM. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	17
9	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	2.4	1083
8	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	2.1	84
7	Thermally Driven Tropical Circulations under Rayleigh Friction and Newtonian Cooling: Analytic Solutions*. <i>Journals of the Atmospheric Sciences</i> , 2001 , 58, 724-741	2.1	25
6	Rayleigh Friction, Newtonian Cooling, and the Linear Response to Steady Tropical Heating*. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 1937-1957	2.1	21
5	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	2.1	48
4	Thermally Forced Surface Winds on an Equatorial Beta Plane*. <i>Journals of the Atmospheric Sciences</i> , 1999 , 56, 2029-2037	2.1	14
3	The intensification and shift of the annual North Atlantic Oscillation in a global warming scenario simulation		47
2	Ozone Trends during 1979-2019 over Tibetan Plateau Derived from Satellite Observations. <i>Frontiers in Earth Science</i> , 8,	3.5	3
1	On the physical origin of the semiannual component of surface air temperature over oceans. <i>Climate Dynamics</i> , 1	4.2	0

