

# Michael Ghil

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/84993/publications.pdf>

Version: 2024-02-01

328  
papers

21,122  
citations

13865

67  
h-index

12597

132  
g-index

381  
all docs

381  
docs citations

381  
times ranked

10765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced spectral methods for climatic time series. <i>Reviews of Geophysics</i> , 2002, 40, 3-1.	23.0	1,695
2	Singular-spectrum analysis: A toolkit for short, noisy chaotic signals. <i>Physica D: Nonlinear Phenomena</i> , 1992, 58, 95-126.	2.8	1,189
3	Singular spectrum analysis in nonlinear dynamics, with applications to paleoclimatic time series. <i>Physica D: Nonlinear Phenomena</i> , 1989, 35, 395-424.	2.8	1,002
4	Unified Notation for Data Assimilation : Operational, Sequential and Variational (gtSpecial Issue) Data Tj ETQq0 0 rgBT /Overlock 10 T Society of Japan, 1997, 75, 181-189.	1.8	701
5	Data Assimilation in Meteorology and Oceanography. <i>Advances in Geophysics</i> , 1991, 33, 141-266.	2.8	690
6	El Nino on the Devil's Staircase: Annual Subharmonic Steps to Chaos. <i>Science</i> , 1994, 264, 70-72.	12.6	445
7	Interdecadal oscillations and the warming trend in global temperature time series. <i>Nature</i> , 1991, 350, 324-327.	27.8	438
8	Persistent Anomalies, Blocking and Variations in Atmospheric Predictability. <i>Journals of the Atmospheric Sciences</i> , 1985, 42, 433-471.	1.7	327
9	Advanced Data Assimilation in Strongly Nonlinear Dynamical Systems. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 1037-1056.	1.7	324
10	Topics in Geophysical Fluid Dynamics: Atmospheric Dynamics, Dynamo Theory, and Climate Dynamics. <i>Applied Mathematical Sciences (Switzerland)</i> , 1987, . .	0.8	310
11	Spatio-temporal filling of missing points in geophysical data sets. <i>Nonlinear Processes in Geophysics</i> , 2006, 13, 151-159.	1.3	277
12	Cluster Analysis of Typhoon Tracks. Part II: Large-Scale Circulation and ENSO. <i>Journal of Climate</i> , 2007, 20, 3654-3676.	3.2	261
13	Cluster Analysis of Typhoon Tracks. Part I: General Properties. <i>Journal of Climate</i> , 2007, 20, 3635-3653.	3.2	260
14	Statistics and Dynamics of Persistent Anomalies. <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 877-902.	1.7	247
15	Trends, interdecadal and interannual oscillations in global sea-surface temperatures. <i>Climate Dynamics</i> , 1998, 14, 545-569.	3.8	245
16	Multiple Flow Regimes in the Northern Hemisphere Winter. Part I: Methodology and Hemispheric Regimes. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 2625-2644.	1.7	234
17	Multiple Equilibria, Periodic, and Aperiodic Solutions in a Wind-Driven, Double-Gyre, Shallow-Water Model. <i>Journal of Physical Oceanography</i> , 1995, 25, 764-786.	1.7	213
18	Low-frequency variability of the large-scale ocean circulation: A dynamical systems approach. <i>Reviews of Geophysics</i> , 2005, 43, .	23.0	202

#	ARTICLE	IF	CITATIONS
19	Stochastic climate dynamics: Random attractors and time-dependent invariant measures. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1685-1700.	2.8	200
20	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 295-350.	1.3	197
21	Orbital forcing, climatic interactions, and glaciation cycles. <i>Journal of Geophysical Research</i> , 1983, 88, 5167-5190.	3.3	182
22	Cluster analysis of multiple planetary flow regimes. <i>Journal of Geophysical Research</i> , 1988, 93, 10927-10952.	3.3	170
23	Intraseasonal Oscillations in the Global Atmosphere. Part I: Northern Hemisphere and Tropics. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 752-779.	1.7	169
24	Tropical air-sea interaction in general circulation models. <i>Climate Dynamics</i> , 1992, 7, 73-104.	3.8	168
25	Climate Stability for a Sellers-Type Model. <i>Journals of the Atmospheric Sciences</i> , 1976, 33, 3-20.	1.7	164
26	The physics of climate variability and climate change. <i>Reviews of Modern Physics</i> , 2020, 92, .	45.6	159
27	A climate model with cryodynamics and geodynamics. <i>Journal of Geophysical Research</i> , 1981, 86, 5262-5270.	3.3	158
28	Multiple Regimes in Northern Hemisphere Height Fields via MixtureModel Clustering*. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 3704-3723.	1.7	157
29	"Waves" vs. "particles" in the atmosphere's phase space: A pathway to long-range forecasting?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2493-2500.	7.1	154
30	Multiple Flow Regimes in the Northern Hemisphere Winter. Part II: Sectorial Regimes and Preferred Transitions. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 2645-2673.	1.7	153
31	Free Oscillations in a Climate Model with Ice-Sheet Dynamics. <i>Journals of the Atmospheric Sciences</i> , 1979, 36, 2292-2303.	1.7	152
32	El Niño/Southern Oscillation and the annual cycle: subharmonic frequency-locking and aperiodicity. <i>Physica D: Nonlinear Phenomena</i> , 1996, 98, 442-465.	2.8	148
33	Quasi-quadrennial and quasi-biennial variability in the equatorial Pacific. <i>Climate Dynamics</i> , 1995, 12, 101-112.	3.8	145
34	Interannual and Interdecadal Variability in 335 Years of Central England Temperatures. <i>Science</i> , 1995, 268, 710-713.	12.6	144
35	Climate dynamics and fluid mechanics: Natural variability and related uncertainties. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2111-2126.	2.8	141
36	Probabilistic clustering of extratropical cyclones using regression mixture models. <i>Climate Dynamics</i> , 2007, 29, 423-440.	3.8	138

#	ARTICLE	IF	CITATIONS
37	Large-Scale Weather Regimes and Local Climate over the Western United States. <i>Journal of Climate</i> , 1999, 12, 1796-1813.	3.2	134
38	Applications of Estimation Theory to Numerical Weather Prediction. <i>Applied Mathematical Sciences (Switzerland)</i> , 1981, , 139-224.	0.8	133
39	Intraseasonal Oscillations in the Global Atmosphere. Part II: Southern Hemisphere. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 780-790.	1.7	132
40	Data-adaptive wavelets and multi-scale singular-spectrum analysis. <i>Physica D: Nonlinear Phenomena</i> , 2000, 142, 254-290.	2.8	131
41	Multilevel Regression Modeling of Nonlinear Processes: Derivation and Applications to Climatic Variability. <i>Journal of Climate</i> , 2005, 18, 4404-4424.	3.2	121
42	Causal Counterfactual Theory for the Attribution of Weather and Climate-Related Events. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 99-110.	3.3	118
43	Natural disasters impacting a macroeconomic model with endogenous dynamics. <i>Ecological Economics</i> , 2008, 68, 582-592.	5.7	117
44	Clustering of eastern North Pacific tropical cyclone tracks: ENSO and MJO effects. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	116
45	Meteorological data assimilation for oceanographers. Part I: Description and theoretical framework. <i>Dynamics of Atmospheres and Oceans</i> , 1989, 13, 171-218.	1.8	114
46	Adaptive filtering and prediction of the Southern Oscillation index. <i>Journal of Geophysical Research</i> , 1992, 97, 20449-20454.	3.3	110
47	DAMÅ%E-NAB: the base experiments. <i>Dynamics of Atmospheres and Oceans</i> , 2000, 32, 155-183.	1.8	110
48	Cryothermodynamics: the chaotic dynamics of paleoclimate. <i>Physica D: Nonlinear Phenomena</i> , 1994, 77, 130-159.	2.8	108
49	Pacific interdecadal variability in this century's sea surface temperatures. <i>Geophysical Research Letters</i> , 2000, 27, 2261-2264.	4.0	108
50	Successive bifurcations in a shallow-water model applied to the wind-driven ocean circulation. <i>Nonlinear Processes in Geophysics</i> , 1995, 2, 241-268.	1.3	107
51	Oscillatory modes of extended Nile River records (A.D. 622â€™1922). <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	101
52	Successive Refinements in Longâ€™Term Integrations of Planetary Orbits. <i>Astrophysical Journal</i> , 2003, 592, 620-630.	4.5	100
53	A Hierarchy of Data-Based ENSO Models. <i>Journal of Climate</i> , 2005, 18, 4425-4444.	3.2	100
54	Adaptive filtering and maximum entropy spectra with application to changes in atmospheric angular momentum. <i>Journal of Geophysical Research</i> , 1991, 96, 22659-22671.	3.3	89

#	ARTICLE	IF	CITATIONS
55	Data-driven non-Markovian closure models. <i>Physica D: Nonlinear Phenomena</i> , 2015, 297, 33-55.	2.8	89
56	A Stochastic-Dynamic Model for the Spatial Structure of Forecast Error Statistics. <i>Monthly Weather Review</i> , 1983, 111, 701-722.	1.4	83
57	Transitions Between Blocked and Zonal Flows in a Rotating Annulus with Topography. <i>Science</i> , 1997, 278, 1598-1601.	12.6	83
58	Monte Carlo Singular Spectrum Analysis (SSA) Revisited: Detecting Oscillator Clusters in Multivariate Datasets. <i>Journal of Climate</i> , 2015, 28, 7873-7893.	3.2	83
59	Multivariate singular spectrum analysis and the road to phase synchronization. <i>Physical Review E</i> , 2011, 84, 036206.	2.1	82
60	Internal Variability of an Energy-Balance Model with Delayed Albedo Effects. <i>Journals of the Atmospheric Sciences</i> , 1982, 39, 1747-1773.	1.7	79
61	Homoclinic bifurcations in the quasi-geostrophic double-gyre circulation. <i>Journal of Marine Research</i> , 2005, 63, 931-956.	0.3	79
62	Low-Frequency Variability in the Midlatitude Atmosphere Induced by an Oceanic Thermal Front. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 961-981.	1.7	77
63	Intraseasonal Oscillations in the Extratropics: Hopf Bifurcation and Topographic Instabilities. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 3007-3022.	1.7	76
64	Multiple equilibria in thermosolutal convection due to salt-flux boundary conditions. <i>Journal of Fluid Mechanics</i> , 1992, 245, 449.	3.4	74
65	Interdecadal Variability of the Thermohaline Circulation and High-Latitude Surface Fluxes. <i>Journal of Physical Oceanography</i> , 1995, 25, 2547-2568.	1.7	73
66	High-frequency paleovariability in climate and CO <sub>2</sub> levels from Vostok Ice Core Records. <i>Journal of Geophysical Research</i> , 1991, 96, 20365-20378.	3.3	71
67	Deep water formation and Quaternary glaciations. <i>Climate Dynamics</i> , 1987, 2, 1-10.	3.8	70
68	Reanalysis of relativistic radiation belt electron fluxes using CRRES satellite data, a radial diffusion model, and a Kalman filter. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	70
69	Transition to Aperiodic Variability in a Wind-Driven Double-Gyre Circulation Model. <i>Journal of Physical Oceanography</i> , 2001, 31, 1260-1286.	1.7	69
70	Extratropical aspects of the 40–50 day oscillation in length of day and atmospheric angular momentum. <i>Journal of Geophysical Research</i> , 1991, 96, 22643-22658.	3.3	67
71	Weather Regimes and Preferred Transition Paths in a Three-Level Quasigeostrophic Model. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 568-587.	1.7	66
72	Nonlinear Dynamics and Predictability in the Atmospheric Sciences. <i>Reviews of Geophysics</i> , 1991, 29, 46-55.	23.0	63

#	ARTICLE	IF	CITATIONS
73	Rough parameter dependence in climate models and the role of Ruelle-Pollicott resonances. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1684-1690.	7.1	63
74	An efficient algorithm for estimating noise covariances in distributed systems. IEEE Transactions on Automatic Control, 1985, 30, 1057-1065.	5.7	62
75	Forecasting Northern Hemisphere 700-mb Geopotential Height Anomalies Using Empirical Normal Modes. Monthly Weather Review, 1993, 121, 2355-2372.	1.4	62
76	Two millennia of climate variability in the Central Mediterranean. Climate of the Past, 2009, 5, 171-181.	3.4	62
77	Development at the wildland urban interface and the mitigation of forest-fire risk. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14272-14276.	7.1	61
78	Hilbert problems for the geosciences in the 21st century. Nonlinear Processes in Geophysics, 2001, 8, 211-211.	1.3	60
79	Low-Frequency Variability in Shallow-Water Models of the Wind-Driven Ocean Circulation. Part II: Time-Dependent Solutions*. Journal of Physical Oceanography, 2003, 33, 729-752.	1.7	60
80	Boolean delay equations: A simple way of looking at complex systems. Physica D: Nonlinear Phenomena, 2008, 237, 2967-2986.	2.8	60
81	Boolean delay equations. II. Periodic and aperiodic solutions. Journal of Statistical Physics, 1985, 41, 125-173.	1.2	59
82	Low-Frequency Variability in Shallow-Water Models of the Wind-Driven Ocean Circulation. Part I: Steady-State Solution*. Journal of Physical Oceanography, 2003, 33, 712-728.	1.7	59
83	Interannual and interdecadal oscillation patterns in sea level. Climate Dynamics, 1995, 11, 255-278.	3.8	58
84	A Boolean Delay Equation Model of Colliding Cascades. Part II: Prediction of Critical Transitions. Journal of Statistical Physics, 2003, 111, 839-861.	1.2	58
85	Interdecadal Variability in a Hybrid Coupled Ocean-Atmosphere Model. Journal of Physical Oceanography, 1996, 26, 1561-1578.	1.7	58
86	Statistical Significance Test for Transition Matrices of Atmospheric Markov Chains. Journals of the Atmospheric Sciences, 1990, 47, 1926-1931.	1.7	57
87	Nonlinear variability of the climatic system from singular and power spectra of Late Quaternary records. Climate Dynamics, 1994, 9, 371-389.	3.8	55
88	A Kalman filter technique to estimate relativistic electron lifetimes in the outer radiation belt. Journal of Geophysical Research, 2007, 112, .	3.3	55
89	A delay differential model of ENSO variability: parametric instability and the distribution of extremes. Nonlinear Processes in Geophysics, 2008, 15, 417-433.	1.3	55
90	Oscillatory Climate Modes in the Eastern Mediterranean and Their Synchronization with the North Atlantic Oscillation. Journal of Climate, 2010, 23, 4060-4079.	3.2	55

#	ARTICLE	IF	CITATIONS
91	Predicting stochastic systems by noise sampling, and application to the El Niño-Southern Oscillation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11766-11771.	7.1	55
92	A Century of Nonlinearity in the Geosciences. Earth and Space Science, 2019, 6, 1007-1042.	2.6	55
93	Business cycles, bifurcations and chaos in a neo-classical model with investment dynamics. Journal of Economic Behavior and Organization, 2008, 67, 57-77.	2.0	53
94	ADAPTIVE FILTERING AND PREDICTION OF NOISY MULTIVARIATE SIGNALS: AN APPLICATION TO SUBANNUAL VARIABILITY IN ATMOSPHERIC ANGULAR MOMENTUM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1993, 03, 625-634.	1.7	52
95	Low-Frequency Variability in the Midlatitude Baroclinic Atmosphere Induced by an Oceanic Thermal Front. Journals of the Atmospheric Sciences, 2007, 64, 97-116.	1.7	52
96	The Atmospheric Circulation over the North Atlantic as Induced by the SST Field. Journal of Climate, 2011, 24, 522-542.	3.2	52
97	Weather types across the Maritime Continent: from the diurnal cycle to interannual variations. Frontiers in Environmental Science, 2015, 2, .	3.3	52
98	Ocean circulation, ice shelf, and sea ice interactions explain Dansgaard-Oeschger cycles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11005-E11014.	7.1	52
99	Interannual and interdecadal variability in United States surface-air temperatures, 1910-87. Climatic Change, 1995, 31, 35-66.	3.6	49
100	Advances in Sequential Estimation for Atmospheric and Oceanic Flows (gtSpecial Issue) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Society of Japan, 1997, 75, 289-304.	1.8	49
101	Data Assimilation for a Coupled Ocean-Atmosphere Model. Part II: Parameter Estimation. Monthly Weather Review, 2008, 136, 5062-5076.	1.4	49
102	Boolean Difference Equations, I: Formulation and Dynamic Behavior. SIAM Journal on Applied Mathematics, 1984, 44, 111-126.	1.8	48
103	Data-adaptive detection of transient deformation in geodetic networks. Journal of Geophysical Research: Solid Earth, 2016, 121, 2129-2152.	3.4	48
104	Recent forecast skill for the El Niño/Southern Oscillation. Geophysical Research Letters, 1998, 25, 171-174.	4.0	47
105	Gap filling of solar wind data by singular spectrum analysis. Geophysical Research Letters, 2010, 37, .	4.0	47
106	Empirical Mode Reduction in a Model of Extratropical Low-Frequency Variability. Journals of the Atmospheric Sciences, 2006, 63, 1859-1877.	1.7	46
107	Graphical models for statistical inference and data assimilation. Physica D: Nonlinear Phenomena, 2007, 230, 72-87.	2.8	45
108	Low-Cloud Fraction, Lower-Tropospheric Stability, and Large-Scale Divergence. Journal of Climate, 2009, 22, 4827-4844.	3.2	45

#	ARTICLE	IF	CITATIONS
109	Solving Problems with GCMs: General Circulation Models and Their Role in the Climate Modeling Hierarchy. <i>International Geophysics</i> , 2000, , 285-325.	0.6	44
110	Tracking Atmospheric Instabilities with the Kalman Filter. Part 1: Methodology and One-Layer Results. <i>Monthly Weather Review</i> , 1994, 122, 183-204.	1.4	43
111	Data assimilation as a nonlinear dynamical systems problem: Stability and convergence of the prediction-assimilation system. <i>Chaos</i> , 2008, 18, 023112.	2.5	43
112	An end-to-end assessment of extreme weather impacts on food security. <i>Nature Climate Change</i> , 2015, 5, 997-1001.	18.8	43
113	Lessons on Climate Sensitivity From Past Climate Changes. <i>Current Climate Change Reports</i> , 2016, 2, 148-158.	8.6	42
114	Isotopic modeling of climatic oscillations: Implications for a comparative study of marine and ice core records. <i>Journal of Geophysical Research</i> , 1988, 93, 9365-9383.	3.3	41
115	Simulation of the Tropical Pacific Climate with a Coupled Ocean-Atmosphere General Circulation Model. Part II: Interannual Variability. <i>Journal of Climate</i> , 1995, 8, 1199-1216.	3.2	41
116	Multiple equilibria and stable oscillations in thermosolutal convection at small aspect ratio. <i>Journal of Fluid Mechanics</i> , 1995, 291, 33-56.	3.4	40
117	Extended Kalman filtering for vortex systems. Part 1: Methodology and point vortices. <i>Dynamics of Atmospheres and Oceans</i> , 1998, 27, 301-332.	1.8	40
118	Jupiter, Saturn, and the Edge of Chaos. <i>Icarus</i> , 1999, 139, 286-294.	2.5	40
119	Climate evolution in the Pliocene and Pleistocene from marine sediment records and simulations: Internal variability versus orbital forcing. <i>Journal of Geophysical Research</i> , 1993, 98, 10385-10399.	3.3	39
120	Atmospheric Circulations Induced by a Midlatitude SST Front: A GCM Study. <i>Journal of Climate</i> , 2012, 25, 1847-1853.	3.2	39
121	Exploring the Pullback Attractors of a Low-Order Quasigeostrophic Ocean Model: The Deterministic Case. <i>Journal of Climate</i> , 2016, 29, 4185-4202.	3.2	39
122	Simulation of the Tropical Pacific Climate with a Coupled Ocean-Atmosphere General Circulation Model. Part I: The Seasonal Cycle. <i>Journal of Climate</i> , 1995, 8, 1178-1198.	3.2	38
123	Low-order stochastic model and noise forecasting of the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , 2013, 40, 5305-5310.	4.0	38
124	Dynamics, Statistics and Predictability of Planetary Flow Regimes. , 1987, , 241-283.		38
125	Transport on river networks: A dynamic tree approach. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	37
126	Global Hopf Bifurcation in a Simple Climate Model. <i>SIAM Journal on Applied Mathematics</i> , 1983, 43, 1019-1041.	1.8	36



#	ARTICLE	IF	CITATIONS
127	On the diurnal cycle and susceptibility to aerosol concentration in a stratocumulus-topped mixed layer. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 1567-1583.	2.7	36
128	Global modes of climate variability. Geophysical Research Letters, 2013, 40, 1832-1837.	4.0	36
129	Impact of the modulated annual cycle and intraseasonal oscillation on daily-to-interannual rainfall variability across monsoonal India. Climate Dynamics, 2012, 38, 2409-2435.	3.8	35
130	Low-frequency variability and heat transport in a low-order nonlinear coupled ocean-atmosphere model. Physica D: Nonlinear Phenomena, 2015, 309, 71-85.	2.8	35
131	A Climatology of Turbulent Dispersion in the Troposphere. Journals of the Atmospheric Sciences, 2001, 58, 2377-2394.	1.7	34
132	Structural bifurcation of 2-D incompressible flows. Indiana University Mathematics Journal, 2001, 50, 159-180.	0.9	34
133	Weather Regime Prediction Using Statistical Learning. Journals of the Atmospheric Sciences, 2007, 64, 1619-1635.	1.7	34
134	DADA: data assimilation for the detection and attribution of weather and climate-related events. Climatic Change, 2016, 136, 155-174.	3.6	34
135	Intraseasonal Oscillations in a Barotropic Model with Annual Cycle, and Their Predictability. Journals of the Atmospheric Sciences, 1995, 52, 2627-2642.	1.7	33
136	Geophysical flows as dynamical systems: the influence of Hide's experiments. Astronomy and Geophysics, 0, 51, 4.28-4.35.	0.2	33
137	The Extratropical 40-Day Oscillation in the UCLA General Circulation Model. Part I: Atmospheric Angular Momentum. Journals of the Atmospheric Sciences, 1994, 51, 1431-1446.	1.7	32
138	Experimental and numerical studies of an eastward jet over topography. Journal of Fluid Mechanics, 2001, 438, 129-157.	3.4	32
139	Baroclinic and barotropic aspects of the wind-driven ocean circulation. Physica D: Nonlinear Phenomena, 2002, 167, 1-35.	2.8	32
140	A Boolean Delay Equation Model of Colliding Cascades. Part I: Multiple Seismic Regimes. Journal of Statistical Physics, 2003, 111, 815-837.	1.2	32
141	The wind-driven ocean circulation: Applying dynamical systems theory to a climate problem. Discrete and Continuous Dynamical Systems, 2017, 37, 189-228.	0.9	32
142	Seasonal and interannual variations of atmospheric CO2 and climate. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 1-24.	1.6	31
143	Extended Kalman filtering for vortex systems. Part II: Rankine vortices and observing-system design. Dynamics of Atmospheres and Oceans, 1998, 27, 333-350.	1.8	31
144	Climatic trends and interdecadal variability from south-central Pacific coral records. Geophysical Research Letters, 1999, 26, 2881-2884.	4.0	31

#	ARTICLE	IF	CITATIONS
145	Another look at climate sensitivity. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 113-122.	1.3	31
146	A Mathematical Theory of Climate Sensitivity or, How to Deal With Both Anthropogenic Forcing and Natural Variability?. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2015, , 31-51.	0.2	31
147	Boundary-layer separation and adverse pressure gradient for 2-D viscous incompressible flow. <i>Physica D: Nonlinear Phenomena</i> , 2004, 197, 149-173.	2.8	30
148	Seasonal and interannual variations of atmospheric CO <sub>2</sub> and climate. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 50, 1.	1.6	29
149	A Boolean delay equation model of ENSO variability. <i>Physica D: Nonlinear Phenomena</i> , 2001, 160, 54-78.	2.8	29
150	Global surface wind and flux fields from model assimilation of Seasat data. <i>Journal of Geophysical Research</i> , 1987, 92, 6477-6487.	3.3	28
151	Multiple regimes and low-frequency oscillations in the Southern Hemisphere's zonal-mean flow. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 14-1-ACL 14-13.	3.3	28
152	Predicting Critical Transitions in ENSO models. Part II: Spatially Dependent Models. <i>Journal of Climate</i> , 2015, 28, 1962-1976.	3.2	28
153	Low-Frequency Oscillations in a Rotating Annulus with Topography. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 3023-3043.	1.7	27
154	Anthropogenic climate change: Scientific uncertainties and moral dilemmas. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2132-2138.	2.8	27
155	Bifurcation analysis of an agent-based model for predator-prey interactions. <i>Ecological Modelling</i> , 2015, 317, 93-106.	2.5	27
156	A Balanced Diagnostic System Compatible with a Barotropic Prognostic Model. <i>Monthly Weather Review</i> , 1977, 105, 1223-1238.	1.4	26
157	Climate sensitivity, energy balance models, and oscillatory climate models. <i>Journal of Geophysical Research</i> , 1984, 89, 1280-1284.	3.3	26
158	<title>The SSA-MTM Toolkit: applications to analysis and prediction of time series</title>. , 1997, , .		26
159	Multiple Regimes and Low-Frequency Oscillations in the Northern Hemisphere's Zonal-Mean Flow. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 840-860.	1.7	26
160	Lognormal Kalman filter for assimilating phase space density data in the radiation belts. <i>Space Weather</i> , 2011, 9, .	3.7	26
161	Atmospheric Dynamics Triggered by an Oceanic SST Front in a Moist Quasigeostrophic Model. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 1617-1632.	1.7	26
162	Oscillatory Climate Modes in the Indian Monsoon, North Atlantic, and Tropical Pacific. <i>Journal of Climate</i> , 2013, 26, 9528-9544.	3.2	26

#	ARTICLE	IF	CITATIONS
163	The Generation Mechanism of Mixed Rossby-Gravity Waves in the Equatorial Troposphere. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 585-604.	1.7	25
164	Data Assimilation in a Simple Tropical Ocean Model with Wind Stress Errors. <i>Journal of Physical Oceanography</i> , 1994, 24, 2111-2128.	1.7	25
165	Mountain Torques and Northern Hemisphere Low-Frequency Variability. Part I: Hemispheric Aspects. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1259-1271.	1.7	25
166	Bimodal Behavior in the Zonal Mean Flow of a Baroclinic $\hat{1}^2$ -Channel Model. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1746-1769.	1.7	25
167	Structural Bifurcation of 2-D Nondivergent Flows with Dirichlet Boundary Conditions: Applications to Boundary-Layer Separation. <i>SIAM Journal on Applied Mathematics</i> , 2005, 65, 1576-1596.	1.8	25
168	Spectral Methods: What They Can and Cannot do for Climatic Time Series. , 1996, , 445-482.		25
169	Empirical Orthogonal Functions and Multiple Flow Regimes in the Southern Hemisphere Winter. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 3219-3223.	1.7	24
170	Finite-Wavelength Instabilities of a Coupled Density Front. <i>Journal of Physical Oceanography</i> , 1990, 20, 114-123.	1.7	24
171	Shortwave instabilities of coastal currents. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1991, 58, 225-241.	1.2	24
172	mountain torques and atmospheric oscillations. <i>Geophysical Research Letters</i> , 2001, 28, 1207-1210.	4.0	24
173	Hopf Bifurcation in Quasi-geostrophic Channel Flow. <i>SIAM Journal on Applied Mathematics</i> , 2003, 64, 343-368.	1.8	24
174	Estimating model evidence using data assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 866-880.	2.7	24
175	Tracking Atmospheric Instabilities with the Kalman Filter. Part II: Two-Layer Results. <i>Monthly Weather Review</i> , 1996, 124, 2340-2352.	1.4	23
176	Reduced models of atmospheric low-frequency variability: Parameter estimation and comparative performance. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 145-166.	2.8	23
177	Major dust events in Europe during marine isotope stage 5 (130â€“74 ka): a climatic interpretation of the &quot;markers&quot;. <i>Climate of the Past</i> , 2013, 9, 2213-2230.	3.4	23
178	Parameter estimation for energy balance models with memory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140349.	2.1	23
179	Interannual Variability in the North Atlantic Oceanâ€™s Temperature Field and Its Association with the Wind Stress Forcing. <i>Journal of Climate</i> , 2017, 30, 2655-2678.	3.2	23
180	Intraseasonal Variability in a Barotropic Model with Seasonal Forcing. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 2965-2986.	1.7	22

#	ARTICLE	IF	CITATIONS
181	Dynamical Origin of Low-Frequency Variability in a Highly Nonlinear Midlatitude Coupled Model. <i>Journal of Climate</i> , 2006, 19, 6391-6408.	3.2	22
182	A highly nonlinear coupled mode of decadal variability in a mid-latitude ocean-atmosphere model. <i>Dynamics of Atmospheres and Oceans</i> , 2007, 43, 123-150.	1.8	22
183	Multispectral analysis of Northern Hemisphere temperature records over the last five millennia. <i>Climate Dynamics</i> , 2015, 45, 83-104.	3.8	22
184	Data assimilation of low-altitude magnetic perturbations into a global magnetosphere model. <i>Space Weather</i> , 2016, 14, 165-184.	3.7	22
185	Reduced-order models for coupled dynamical systems: Data-driven methods and the Koopman operator. <i>Chaos</i> , 2021, 31, 053116.	2.5	22
186	The Extratropical 40-Day Oscillation in the UCLA General Circulation Model. Part II: Spatial Structure. <i>Journals of the Atmospheric Sciences</i> , 1996, 53, 1993-2014.	1.7	21
187	Nonlinear Stability for Saddle Solutions of Ideal Flows and Symmetry Breaking. <i>Communications in Mathematical Physics</i> , 1998, 193, 713-736.	2.2	21
188	Successive bifurcations in a simple model of atmospheric zonal-flow vacillation. <i>Chaos</i> , 2002, 12, 300-309.	2.5	21
189	Interdecadal Variability in a Hybrid Coupled Ocean-Atmosphere-Sea Ice Model. <i>Journal of Physical Oceanography</i> , 2004, 34, 1756-1775.	1.7	21
190	Mountain Torques and Northern Hemisphere Low-Frequency Variability. Part II: Regional Aspects. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1272-1283.	1.7	21
191	A delay differential model of ENSO variability - Part 2: Phase locking, multiple solutions and dynamics of extrema. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 123-135.	1.3	21
192	BOOLEAN DELAY EQUATIONS ON NETWORKS IN ECONOMICS AND THE GEOSCIENCES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 3511-3548.	1.7	21
193	Oscillations in a simple climate-vegetation model. <i>Nonlinear Processes in Geophysics</i> , 2015, 22, 275-288.	1.3	21
194	Synchronization of world economic activity. <i>Chaos</i> , 2017, 27, 127002.	2.5	20
195	Inverse stochastic-dynamic models for high-resolution Greenland ice core records. <i>Earth System Dynamics</i> , 2017, 8, 1171-1190.	7.1	20
196	Assimilation of Asynoptic Data and the Initialization Problem. <i>Applied Mathematical Sciences (Switzerland)</i> , 1981, , 111-138.	0.8	20
197	Interannual and interdecadal oscillation patterns in sea level. <i>Climate Dynamics</i> , 1995, 11, 255-278.	3.8	20
198	Predicting Critical Transitions in ENSO Models. Part I: Methodology and Simple Models with Memory. <i>Journal of Climate</i> , 2015, 28, 1940-1961.	3.2	19

#	ARTICLE	IF	CITATIONS
199	A complete representation of uncertainties in layer-counted paleoclimatic archives. <i>Climate of the Past</i> , 2017, 13, 1169-1180.	3.4	19
200	Dansgaard's "Oeschger-like events of the penultimate climate cycle: the loess point of view. <i>Climate of the Past</i> , 2020, 16, 713-727.	3.4	19
201	Stability of propagating modons for small-amplitude perturbations. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 408-414.	1.6	18
202	Interdecadal Changes in Atmospheric Low-Frequency Variability with and without Boundary Forcing*. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 1132-1140.	1.7	18
203	Data Assimilation for a Coupled Ocean-Atmosphere Model. Part I: Sequential State Estimation. <i>Monthly Weather Review</i> , 2002, 130, 1073-1099.	1.4	18
204	Rapid switch-like sea ice growth and land ice-sea ice hysteresis. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	18
205	The onset of chaos in nonautonomous dissipative dynamical systems: a low-order ocean-model case study. <i>Nonlinear Processes in Geophysics</i> , 2018, 25, 671-692.	1.3	18
206	The Effect of Model Resolution and Satellite Sounding Data on GLAS Model Forecasts. <i>Monthly Weather Review</i> , 1982, 110, 662-682.	1.4	17
207	Stability of stationary barotropic modons by Lyapunov's direct method. <i>Journal of Fluid Mechanics</i> , 1990, 211, 393-416.	3.4	17
208	Intraseasonal Variability of the Winter Circulation in the Southern Hemisphere Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 1387-1404.	1.7	17
209	Mixed barotropic-baroclinic eddies growing on an eastward mid-latitude jet. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1996, 82, 137-171.	1.2	17
210	Spatio-temporal variability in a mid-latitude ocean basin subject to periodic wind forcing. <i>Atmosphere - Ocean</i> , 2007, 45, 227-250.	1.6	17
211	Low-dimensional galerkin approximations of nonlinear delay differential equations. <i>Discrete and Continuous Dynamical Systems</i> , 2016, 36, 4133-4177.	0.9	17
212	Atmospheric radiative equilibria in a simple column model. <i>Climate Dynamics</i> , 1997, 13, 429-440.	3.8	16
213	An Ensemble-Based Smoother with Retrospectively Updated Weights for Highly Nonlinear Systems. <i>Monthly Weather Review</i> , 2007, 135, 186-202.	1.4	16
214	Disconcerting learning on climate sensitivity and the uncertain future of uncertainty. <i>Climatic Change</i> , 2013, 119, 585-601.	3.6	16
215	Extreme weather events. <i>Nature</i> , 1992, 358, 547-547.	27.8	15
216	Predicting weather regime transitions in Northern Hemisphere datasets. <i>Climate Dynamics</i> , 2007, 29, 535-551.	3.8	15

#	ARTICLE	IF	CITATIONS
217	Signatures of Nonlinear Dynamics in an Idealized Atmospheric Model. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 3-12.	1.7	15
218	Data-adaptive spatio-temporal filtering of GRACE data. <i>Geophysical Journal International</i> , 2019, 219, 2034-2055.	2.4	15
219	The compatible balancing approach to initialization, and four-dimensional data assimilation. <i>Tellus</i> , 1980, 32, 198-206.	0.8	14
220	Energy-Balance Models: An Introduction. , 1981, , 461-480.		14
221	Internal Climatic Mechanisms Participating in Glaciation Cycles. , 1981, , 539-557.		14
222	Dissolved organic matter and the glacial-interglacial pCO <sub>2</sub> problem. <i>Global Biogeochemical Cycles</i> , 1993, 7, 901-914.	4.9	14
223	Low-Frequency Variability in a Baroclinic Channel with Land-Sea Contrast*. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 2267-2293.	1.7	14
224	Sensitivity Analysis of Cirrus Cloud Properties from High-Resolution Infrared Spectra. Part I: Methodology and Synthetic Cirrus. <i>Journal of Climate</i> , 2004, 17, 4856-4870.	3.2	14
225	Impact of Anomalous Northward Oceanic Heat Transport on Global Climate in a Slab Ocean Setting. <i>Journal of Climate</i> , 2015, 28, 2650-2664.	3.2	14
226	Evidence of coupling in ocean-atmosphere dynamics over the North Atlantic. <i>Geophysical Research Letters</i> , 2017, 44, 2016-2026.	4.0	14
227	Tipping points induced by parameter drift in an excitable ocean model. <i>Scientific Reports</i> , 2021, 11, 11126.	3.3	14
228	A fast Cauchy-Riemann solver. <i>Mathematics of Computation</i> , 1979, 33, 585-635.	2.1	14
229	The role of oscillatory modes in US business cycles. <i>Journal of Business Cycle Measurement and Analysis</i> , 2015, 2015, 63-81.	0.4	14
230	Downwelling-Front Instability and Eddy Formation in the Eastern Mediterranean. <i>Journal of Physical Oceanography</i> , 1993, 23, 61-78.	1.7	13
231	Dynamical Properties of Error Statistics in a Shallow-Water Model. <i>Journal of Physical Oceanography</i> , 1993, 23, 2541-2566.	1.7	13
232	An extension of Arnol'd's second stability theorem for the Euler equations. <i>Physica D: Nonlinear Phenomena</i> , 1996, 94, 161-167.	2.8	13
233	Phase relations between climate proxy records: Potential effect of seasonal precipitation changes. <i>Geophysical Research Letters</i> , 2002, 29, 11-1.	4.0	13
234	Large-scale and evaporation-wind feedbacks in a box model of the tropical climate. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	13

#	ARTICLE	IF	CITATIONS
235	Intrinsic and climatic factors in North-American animal population dynamics. BMC Ecology, 2004, 4, 6.	3.0	13
236	Data assimilation with an extended Kalman filter for impact-produced shock-wave dynamics. Journal of Computational Physics, 2004, 196, 705-723.	3.8	13
237	Bifurcation Analysis of Ocean, Atmosphere, and Climate Models. Handbook of Numerical Analysis, 2009, 14, 187-229.	1.8	13
238	Economic networks: Heterogeneity-induced vulnerability and loss of synchronization. Chaos, 2017, 27, 126703.	2.5	13
239	Evaluating the Performance of Climate Models Based on Wasserstein Distance. Geophysical Research Letters, 2020, 47, e2020GL089385.	4.0	13
240	Transition to two-dimensional turbulent convection in a rapidly-rotating annulus. Geophysical and Astrophysical Fluid Dynamics, 1989, 45, 131-157.	1.2	12
241	Intraseasonal Variability in a Two-Layer Model and Observations. Journals of the Atmospheric Sciences, 2000, 57, 1010-1028.	1.7	12
242	Automatic detection of abrupt transitions in paleoclimate records. Chaos, 2021, 31, 113129.	2.5	12
243	Abrupt climate changes and the astronomical theory: are they related?. Climate of the Past, 2022, 18, 249-271.	3.4	12
244	Orbital insolation variations, intrinsic climate variability, and Quaternary glaciations. Climate of the Past, 2022, 18, 863-893.	3.4	12
245	Atmospheric radiative equilibria. Part II: bimodal solutions for atmospheric optical properties. Climate Dynamics, 2001, 18, 29-49.	3.8	11
246	Economic Cycles and Their Synchronization: A Comparison of Cyclic Modes in Three European Countries. Journal of Business Cycle Research, 2016, 12, 25-48.	0.5	11
247	Pullback Attractor Crisis in a Delay Differential ENSO Model. , 2018, , 1-33.		11
248	Oscillatory nature of the Okmok volcano's deformation. Earth and Planetary Science Letters, 2019, 506, 76-86.	4.4	11
249	Data-Adaptive Harmonic Decomposition and Stochastic Modeling of Arctic Sea Ice. , 2018, , 179-205.		11
250	Deceptively-Simple Models of Climatic Change. , 1989, , 211-240.		11
251	Tracking Nonlinear Solutions with Simulated Altimetric Data in a Shallow-Water Model*. Journal of Physical Oceanography, 1997, 27, 72-95.	1.7	10
252	Successive bifurcations in a shallow-water ocean model. , 1998, , 225-230.		10



#	ARTICLE	IF	CITATIONS
253	Models of solar irradiance variability and the instrumental temperature record. <i>Geophysical Research Letters</i> , 1999, 26, 1449-1452.	4.0	10
254	Interannual Variability in North Atlantic Weather: Data Analysis and a Quasigeostrophic Model. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3227-3248.	1.7	10
255	Pathogens trigger top-down climate forcing on ecosystem dynamics. <i>Oecologia</i> , 2016, 181, 519-532.	2.0	10
256	Non-Hamiltonian Perturbations of Integrable Systems and Resonance Trapping. <i>SIAM Journal on Applied Mathematics</i> , 1992, 52, 1148-1171.	1.8	9
257	Introduction to focus issue: Synchronization in large networks and continuous media—data, models, and supermodels. <i>Chaos</i> , 2017, 27, 126601.	2.5	9
258	Nonlinear variability of the climatic system from singular and power spectra of Late Quaternary records. <i>Climate Dynamics</i> , 1994, 9, 371-389.	3.8	9
259	Noise-driven topological changes in chaotic dynamics. <i>Chaos</i> , 2021, 31, 103115.	2.5	9
260	Nonlinear Symmetric Instability and Intraseasonal Oscillations in the Tropical Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 2552-2568.	1.7	8
261	Linear Instability of a Zonal Jet on a Plane*. <i>Journal of Physical Oceanography</i> , 1997, 27, 2361-2369.	1.7	8
262	A mechanistic model of mid-latitude decadal climate variability. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 584-599.	2.8	8
263	A collection on “Climate dynamics: multiple scales and memory effects”. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150097.	2.1	8
264	Estimating model evidence using ensemble-based data assimilation with localization – The model selection problem. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1571-1588.	2.7	8
265	Extratropical Sub-seasonal to Seasonal Oscillations and Multiple Regimes: The Dynamical Systems View. , 2019, , 119-142.		8
266	Origin of the 30–60 Day Oscillation in the LOD and Atmospheric Angular Momentum: New Findings from the UCLA General Circulation Model. <i>International Association of Geodesy Symposia</i> , 1990, , 98-105.	0.4	8
267	Stability of quasi-geostrophic flow in a periodic channel. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 202, 111-116.	2.1	7
268	Mass-Weighted Symplectic Forms for the N-Body Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1998, 72, 187-199.	1.4	7
269	A Box Model for the paleoceanography of the Black Sea. <i>Geophysical Research Letters</i> , 1999, 26, 497-500.	4.0	7
270	Fixed points, stable manifolds, weather regimes, and their predictability. <i>Chaos</i> , 2009, 19, 043109.	2.5	7



#	ARTICLE	IF	CITATIONS
271	An empirical stochastic model of sea-surface temperatures and surface winds over the Southern Ocean. <i>Ocean Science</i> , 2011, 7, 755-770.	3.4	7
272	Multiple equilibria and oscillatory modes in a mid-latitude ocean-forced atmospheric model. <i>Nonlinear Processes in Geophysics</i> , 2012, 19, 479-499.	1.3	7
273	Arnold Maps with Noise: Differentiability and Non-monotonicity of the Rotation Number. <i>Journal of Statistical Physics</i> , 2020, 179, 1594-1624.	1.2	7
274	Extratropical Low-Frequency Variability With ENSO Forcing: A Reduced-Order Coupled Model Study. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002530.	3.8	7
275	Endogenous Business Cycles and the Economic Response to Exogenous Shocks. <i>SSRN Electronic Journal</i> , 0, , .	0.4	7
276	The compatible balancing approach to initialization, and four-dimensional data assimilation. <i>Tellus</i> , 1980, 32, 198-206.	0.8	7
277	Review article: Hilbert problems for the climate sciences in the 21st century – 20 years later. <i>Nonlinear Processes in Geophysics</i> , 2020, 27, 429-451.	1.3	7
278	A model equation for nonlinear wavelength selection and amplitude evolution of frontal waves. <i>Journal of Nonlinear Science</i> , 1994, 4, 471-496.	2.1	6
279	Singularly weighted symplectic forms and applications to asteroid motion. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1995, 62, 23-41.	1.4	6
280	Error evolution in the dynamics of an ocean general circulation model. <i>Dynamics of Atmospheres and Oceans</i> , 2000, 32, 419-431.	1.8	6
281	Estimating model parameters for an impact-produced shock-wave simulation: Optimal use of partial data with the extended Kalman filter. <i>Journal of Computational Physics</i> , 2006, 214, 725-737.	3.8	6
282	Reply to T. Schneider's comment on "Spatio-temporal filling of missing points in geophysical data sets". <i>Nonlinear Processes in Geophysics</i> , 2007, 14, 3-4.	1.3	6
283	Data-adaptive harmonic decomposition and prediction of Arctic sea ice extent. <i>Dynamics and Statistics of the Climate System</i> , 2018, 3, .	0.8	6
284	Ensemble Oscillation Correction (EnOC): Leveraging oscillatory modes to improve forecasts of chaotic systems. <i>Journal of Climate</i> , 2021, , 1.	3.2	6
285	Accurate dating of Gallipoli Terrace (Ionian Sea) sediments: Historical eruptions and climate records. <i>PAGES News</i> , 2009, 17, 8-9.	0.3	6
286	Averaging of time - periodic systems without a small parameter. <i>Discrete and Continuous Dynamical Systems</i> , 2006, 14, 753-782.	0.9	6
287	Heat Transfer through a Rankine Vortex. <i>Journal of Heat Transfer</i> , 1973, 95, 137-139.	2.1	5
288	The Combined Effects of Cold-Nebula Drag and Mean-Motion Resonances. <i>Icarus</i> , 1998, 132, 137-150.	2.5	5

#	ARTICLE	IF	CITATIONS
289	Probing near-surface atmospheric turbulence with high-resolution lidar measurements and models. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 7-1-ACL 7-9.	3.3	5
290	North Atlantic climate variability in coupled models and data. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 13-24.	1.3	5
291	Zonal Flow Regime Changes in a GCM and in a Simple Quasigeostrophic Model: The Role of Stratospheric Dynamics. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1366-1383.	1.7	5
292	Coupled Climate-Economic Modes in the Sahel's Interannual Variability. <i>Ecological Economics</i> , 2018, 153, 111-123.	5.7	5
293	On the secular motion of the jovian planets. <i>Symposium - International Astronomical Union</i> , 1996, 172, 57-60.	0.1	4
294	Stability of a front separating water masses with different stratifications. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1997, 84, 165-204.	1.2	4
295	Understanding Multidecadal Climate Changes. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 293-296.	3.3	4
296	Global oscillatory modes in high-end climate modeling and reanalyses. <i>Climate Dynamics</i> , 2021, 57, 3385.	3.8	4
297	A 30-60 Day Oscillation in Length-of-Day and Atmospheric Angular Momentum: Extratropical Origin?. <i>International Association of Geodesy Symposia</i> , 1990, , 90-97.	0.4	4
298	The Great Inequality in a Hamiltonian Planetary Theory. <i>NATO ASI Series Series B: Physics</i> , 1995, , 103-108.	0.2	4
299	Extended Kalman Filtering for Vortex Systems: An Example of Observing-System Design. , 1994, , 167-193.		4
300	Natural variability and anthropogenic effects in a Central Mediterranean core. <i>Climate of the Past</i> , 2012, 8, 831-839.	3.4	3
301	The Role of Oscillatory Modes in U.S. Business Cycles. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
302	A Data-Based Minimal Model of Episodic Inflation Events at Volcanoes. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	3
303	Workshop tackles oceanic thermohaline circulation. <i>Eos</i> , 1994, 75, 493.	0.1	2
304	El Niño/Southern Oscillation. <i>Encyclopedia of Earth Sciences Series</i> , 2013, , 250-263.	0.1	2
305	Summary, Conclusions and Recommendations. , 1984, , 823-873.		2
306	Sequential Estimation and Satellite Data Assimilation in Meteorology and Oceanography. <i>Developments in Geomathematics</i> , 1986, , 91-100.	0.1	2

#	ARTICLE	IF	CITATIONS
307	A New Frontal Instability: Theory and ERICA Observations. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 3227-3237.	1.7	2
308	Coupled Climate-Economy-Ecology (CoCEB) Modeling: A Dynamic Approach. <i>SSRN Electronic Journal</i> , 0, , ,	0.4	2
309	The Predictability of Glaciation Cycles (Abstract). <i>Annals of Glaciology</i> , 1984, 5, 213-214.	1.4	1
310	Reply to comments by P. Ripa. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 464-466.	1.6	1
311	An Approach to Statistical Spatial-Temporal Modeling of Meteorological Fields: Comment. <i>Journal of the American Statistical Association</i> , 1994, 89, 384.	3.1	1
312	Using extended Kalman filter for data assimilation and uncertainty quantification in shock-wave dynamics. , 0, , .		1
313	Scale separation for moisture-laden regions in the tropical atmosphere. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	1
314	Comment on "Nonparametric forecasting of low-dimensional dynamical systems" <i>Physical Review E</i> , 2016, 93, 036201.	2.1	1
315	Coupled Climate-Economy-Ecology-Biosphere Modeling: A Dynamic and Stochastic Approach. , 2021, , 1-63.		1
316	<i>Geophysical Fluid Dynamics, Nonautonomous Dynamical Systems, and the Climate Sciences</i> . Springer INdAM Series, 2020, , 3-81.	0.5	1
317	Nonlinear Paleoclimatic Variability from Quaternary Records. , 1993, , 557-577.		1
318	CLIMATE VARIABILITY   Nonlinear Aspects. , 2003, , 432-438.		1
319	Reply to Roe and Baker's comment on "Another look at climate sensitivity" by Zaliapin and Ghil (2010). <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 129-131.	1.3	1
320	Successive Bifurcations and the Ice-Age Problem. , 1980, , 57-58.		1
321	Discussion: "Heat Transfer From the Rear of a Cylinder in Transverse Flow" (Virk, P. S., 1970, ASME J.) $T_j ETQq_{1,1} 0.7843_{2,1} 14 rgBT$		0
322	A simple coastal ocean model for the Central California Basin during Late Miocene. <i>Paleoceanography</i> , 1993, 8, 799-810.	3.0	0
323	Probing near-surface atmospheric turbulence with lidar measurements and high-resolution hydrodynamic models. , 2001, 4153, 199.		0
324	CLIMATE AND CLIMATE CHANGE   Climate Variability. , 2015, , 38-46.		0

#	ARTICLE	IF	CITATIONS
325	Singular Spectrum Analysis for Astronomical Time Series: Constructing a Parsimonious Hypothesis Test. Thirty Years of Astronomical Discovery With UKIRT, 2016, , 105-107.	0.3	0
326	Impacts of Natural Disasters on a Dynamic Economy. SSRN Electronic Journal, 0, , .	0.4	0
327	A Minimal Endogenous Business Cycle Model with Memory Effects. SSRN Electronic Journal, 0, , .	0.4	0
328	Coupled Climate-Economy-Ecology-Biosphere Modeling: A Dynamic and Stochastic Approach. , 2022, , 225-287.		0