Michael Ghil

List of Publications by Year
in descending order

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	Seasonal and interannual variations of atmospheric CO₂ and climate. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 1.	1.6	29
2	Abrupt climate changes and the astronomical theory: are they related?. Climate of the Past, 2022, 18, 249-271.	3.4	12
3	Orbital insolation variations, intrinsic climate variability, and Quaternary glaciations. Climate of the Past, 2022, 18, 863-893.	3.4	12
4	Coupled Climate-Economy-Ecology-Biosphere Modeling: A Dynamic and Stochastic Approach. , 2022, , 225-287.		0
5	A Data-Based Minimal Model of Episodic Inflation Events at Volcanoes. Frontiers in Earth Science, 2022, 10, .	1.8	3
6	Coupled Climate-Economy-Ecology-Biosphere Modeling: A Dynamic and Stochastic Approach. , 2021, , 1-63.		1
7	Ensemble Oscillation Correction (EnOC): Leveraging oscillatory modes to improve forecasts of chaotic systems. Journal of Climate, 2021, , 1.	3.2	6
8	Reduced-order models for coupled dynamical systems: Data-driven methods and the Koopman operator. Chaos, 2021, 31, 053116.	2.5	22
9	Tipping points induced by parameter drift in an excitable ocean model. Scientific Reports, 2021, 11, 11126.	3.3	14
10	Extratropical Lowâ€Frequency Variability With ENSO Forcing: A Reducedâ€Order Coupled Model Study. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002530.	3.8	7
11	Global oscillatory modes in high-end climate modeling and reanalyses. Climate Dynamics, 2021, 57, 3385.	3.8	4
12	Noise-driven topological changes in chaotic dynamics. Chaos, 2021, 31, 103115.	2.5	9
13	Automatic detection of abrupt transitions in paleoclimate records. Chaos, 2021, 31, 113129.	2.5	12
14	Arnold Maps with Noise: Differentiability and Non-monotonicity of the Rotation Number. Journal of Statistical Physics, 2020, 179, 1594-1624.	1.2	7
15	Evaluating the Performance of Climate Models Based on Wasserstein Distance. Geophysical Research Letters, 2020, 47, e2020GL089385.	4.0	13
16	The physics of climate variability and climate change. Reviews of Modern Physics, 2020, 92, .	45.6	159
17	Dansgaardâ€“Oeschger-like events of the penultimate climate cycle: the loess point of view. Climate of the Past, 2020, 16, 713-727.	3.4	19
18	Geophysical Fluid Dynamics, Nonautonomous Dynamical Systems, and the Climate Sciences. Springer INdAM Series, 2020, , 3-81.	0.5	1

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19	Review article: Hilbert problems for the climate sciences in the 21st century â€“ 20 years later. Nonlinear Processes in Geophysics, 2020, 27, 429-451.	1.3	7
20	Data-adaptive spatio-temporal filtering of GRACE data. Geophysical Journal International, 2019, 219, 2034-2055.	2.4	15
21	A Century of Nonlinearity in the Geosciences. Earth and Space Science, 2019, 6, 1007-1042.	2.6	55
22	Estimating model evidence using ensembleâ€based data assimilation with localization â€“ The model selection problem. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1571-1588.	2.7	8
23	Oscillatory nature of the Okmok volcano's deformation. Earth and Planetary Science Letters, 2019, 506, 76-86.	4.4	11
24	Extratropical Sub-seasonal to Seasonal Oscillations and Multiple Regimes: The Dynamical Systems View. , 2019, , 119-142.		8
25	Pullback Attractor Crisis in a Delay Differential ENSO Model. , 2018, , 1-33.		11
26	Data-adaptive harmonic decomposition and prediction of Arctic sea ice extent. Dynamics and Statistics of the Climate System, 2018, 3, .	0.8	6
27	The onset of chaos in nonautonomous dissipative dynamical systems: a low-order ocean-model case study. Nonlinear Processes in Geophysics, 2018, 25, 671-692.	1.3	18
28	Ocean circulation, ice shelf, and sea ice interactions explain Dansgaardâ€“Oeschger cycles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11005-E11014.	7.1	52
29	Coupled Climate-Economic Modes in the Sahel's Interannual Variability. Ecological Economics, 2018, 153, 111-123.	5.7	5
30	Data-Adaptive Harmonic Decomposition and Stochastic Modeling of Arctic Sea Ice. , 2018, , 179-205.		11
31	Evidence of coupling in oceanâ€atmosphere dynamics over the North Atlantic. Geophysical Research Letters, 2017, 44, 2016-2026.	4.0	14
32	Estimating model evidence using data assimilation. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 866-880.	2.7	24
33	Interannual Variability in the North Atlantic Oceanâ€™s Temperature Field and Its Association with the Wind Stress Forcing. Journal of Climate, 2017, 30, 2655-2678.	3.2	23
34	Synchronization of world economic activity. Chaos, 2017, 27, 127002.	2.5	20
35	Introduction to focus issue: Synchronization in large networks and continuous mediaâ€”data, models, and supermodels. Chaos, 2017, 27, 126601.	2.5	9
36	Economic networks: Heterogeneity-induced vulnerability and loss of synchronization. Chaos, 2017, 27, 126703.	2.5	13

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37	Inverse stochasticâ€“dynamic models for high-resolution Greenland ice core records. Earth System Dynamics, 2017, 8, 1171-1190.	7.1	20
38	A complete representation of uncertainties in layer-counted paleoclimatic archives. Climate of the Past, 2017, 13, 1169-1180.	3.4	19
39	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
40	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
41	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
42	DADA: data assimilation for the detection and attribution of weather and climate-related events. Climatic Change, 2016, 136, 155-174.	3.6	34
43	Data assimilation of lowâ€altitude magnetic perturbations into a global magnetosphere model. Space Weather, 2016, 14, 165-184.	3.7	22
44	Dataâ€adaptive detection of transient deformation in geodetic networks. Journal of Geophysical Research: Solid Earth, 2016, 121, 2129-2152.	3.4	48
45	Comment on â€œNonparametric forecasting of low-dimensional dynamical systems â€. Physical Review E, 2016, 93, 036201.	2.1	1
46	Lessons on Climate Sensitivity From Past Climate Changes. Current Climate Change Reports, 2016, 2, 148-158.	8.6	42
47	Interannual Variability in North Atlantic Weather: Data Analysis and a Quasigeostrophic Model. Journals of the Atmospheric Sciences, 2016, 73, 3227-3248.	1.7	10
48	Exploring the Pullback Attractors of a Low-Order Quasigeostrophic Ocean Model: The Deterministic Case. Journal of Climate, 2016, 29, 4185-4202.	3.2	39
49	Pathogens trigger top-down climate forcing on ecosystem dynamics. Oecologia, 2016, 181, 519-532.	2.0	10
50	Causal Counterfactual Theory for the Attribution of Weather and Climate-Related Events. Bulletin of the American Meteorological Society, 2016, 97, 99-110.	3.3	118
51	Low-dimensional galerkin approximations of nonlinear delay differential equations. Discrete and Continuous Dynamical Systems, 2016, 36, 4133-4177.	0.9	17
52	Low-frequency variability and heat transport in a low-order nonlinear coupled oceanâ€“atmosphere model. Physica D: Nonlinear Phenomena, 2015, 309, 71-85.	2.8	35
53	Oscillations in a simple climateâ€“vegetation model. Nonlinear Processes in Geophysics, 2015, 22, 275-288.	1.3	21
54	Weather types across the Maritime Continent: from the diurnal cycle to interannual variations. Frontiers in Environmental Science, 2015, 2, .	3.3	52

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55	CLIMATE AND CLIMATE CHANGE | Climate Variability. , 2015, , 38-46.		0
56	A Mathematical Theory of Climate Sensitivity or, How to Deal With Both Anthropogenic Forcing and Natural Variability?. World Scientific Series on Asia-Pacific Weather and Climate, 2015, , 31-51.	0.2	31
57	Data-driven non-Markovian closure models. Physica D: Nonlinear Phenomena, 2015, 297, 33-55.	2.8	89
58	Predicting Critical Transitions in ENSO models. Part II: Spatially Dependent Models. Journal of Climate, 2015, 28, 1962-1976.	3.2	28
59	Multispectral analysis of Northern Hemisphere temperature records over the last five millennia. Climate Dynamics, 2015, 45, 83-104.	3.8	22
60	Predicting Critical Transitions in ENSO Models. Part I: Methodology and Simple Models with Memory. Journal of Climate, 2015, 28, 1940-1961.	3.2	19
61	An end-to-end assessment of extreme weather impacts on food security. Nature Climate Change, 2015, 5, 997-1001.	18.8	43
62	Impact of Anomalous Northward Oceanic Heat Transport on Global Climate in a Slab Ocean Setting. Journal of Climate, 2015, 28, 2650-2664.	3.2	14
63	A collection on â€˜Climate dynamics: multiple scales and memory effectsâ€™. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150097.	2.1	8
64	Monte Carlo Singular Spectrum Analysis (SSA) Revisited: Detecting Oscillator Clusters in Multivariate Datasets. Journal of Climate, 2015, 28, 7873-7893.	3.2	83
65	Bifurcation analysis of an agent-based model for predatorâ€“prey interactions. Ecological Modelling, 2015, 317, 93-106.	2.5	27
66	The role of oscillatory modes in US business cycles. Journal of Business Cycle Measurement and Analysis, 2015, 2015, 63-81.	0.4	14
67	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
68	Understanding Multidecadal Climate Changes. Bulletin of the American Meteorological Society, 2014, 95, 293-296.	3.3	4
69	Parameter estimation for energy balance models with memory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140349.	2.1	23
70	Disconcerting learning on climate sensitivity and the uncertain future of uncertainty. Climatic Change, 2013, 119, 585-601.	3.6	16
71	Lowâ€order stochastic model and â€œpastâ€noise forecastingâ€•of the Maddenâ€Julian Oscillation. Geophysical Research Letters, 2013, 40, 5305-5310.	4.0	38
72	Global modes of climate variability. Geophysical Research Letters, 2013, 40, 1832-1837.	4.0	36

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73	Oscillatory Climate Modes in the Indian Monsoon, North Atlantic, and Tropical Pacific. Journal of Climate, 2013, 26, 9528-9544.	3.2	26
74	Major dust events in Europe during marine isotope stage 5 (130â€“74 ka): a climatic interpretation of the "markers". Climate of the Past, 2013, 9, 2213-2230.	3.4	23
75	El NiÃ±o/Southern Oscillation. Encyclopedia of Earth Sciences Series, 2013, , 250-263.	0.1	2
76	Atmospheric Dynamics Triggered by an Oceanic SST Front in a Moist Quasigeostrophic Model. Journals of the Atmospheric Sciences, 2012, 69, 1617-1632.	1.7	26
77	Atmospheric Circulations Induced by a Midlatitude SST Front: A GCM Study. Journal of Climate, 2012, 25, 1847-1853.	3.2	39
78	Multiple equilibria and oscillatory modes in a mid-latitude ocean-forced atmospheric model. Nonlinear Processes in Geophysics, 2012, 19, 479-499.	1.3	7
79	Natural variability and anthropogenic effects in a Central Mediterranean core. Climate of the Past, 2012, 8, 831-839.	3.4	3
80	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
81	Lognormal Kalman filter for assimilating phase space density data in the radiation belts. Space Weather, 2011, 9, .	3.7	26
82	An empirical stochastic model of sea-surface temperatures and surface winds over the Southern Ocean. Ocean Science, 2011, 7, 755-770.	3.4	7
83	Extreme events: dynamics, statistics and prediction. Nonlinear Processes in Geophysics, 2011, 18, 295-350.	1.3	197
84	Stochastic climate dynamics: Random attractors and time-dependent invariant measures. Physica D: Nonlinear Phenomena, 2011, 240, 1685-1700.	2.8	200
85	Multivariate singular spectrum analysis and the road to phase synchronization. Physical Review E, 2011, 84, 036206.	2.1	82
86	Predicting stochastic systems by noise sampling, and application to the El NiÃ±o-Southern Oscillation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11766-11771.	7.1	55
87	BOOLEAN DELAY EQUATIONS ON NETWORKS IN ECONOMICS AND THE GEOSCIENCES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 3511-3548.	1.7	21
88	The Atmospheric Circulation over the North Atlantic as Induced by the SST Field. Journal of Climate, 2011, 24, 522-542.	3.2	52
89	Signatures of Nonlinear Dynamics in an Idealized Atmospheric Model. Journals of the Atmospheric Sciences, 2011, 68, 3-12.	1.7	15
90	Reply to Roe and Baker's comment on "Another look at climate sensitivity" by Zaliapin and Ghil (2010). Nonlinear Processes in Geophysics, 2011, 18, 129-131.	1.3	1

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91	Reduced models of atmospheric low-frequency variability: Parameter estimation and comparative performance. Physica D: Nonlinear Phenomena, 2010, 239, 145-166.	2.8	23
92	A delay differential model of ENSO variability â€“ Part 2: Phase locking, multiple solutions and dynamics of extrema. Nonlinear Processes in Geophysics, 2010, 17, 123-135.	1.3	21
93	Another look at climate sensitivity. Nonlinear Processes in Geophysics, 2010, 17, 113-122.	1.3	31
94	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
95	Transport on river networks: A dynamic tree approach. Journal of Geophysical Research, 2010, 115, .	3.3	37
96	Gap filling of solar wind data by singular spectrum analysis. Geophysical Research Letters, 2010, 37, .	4.0	47
97	Two millennia of climate variability in the Central Mediterranean. Climate of the Past, 2009, 5, 171-181.	3.4	62
98	Fixed points, stable manifolds, weather regimes, and their predictability. Chaos, 2009, 19, 043109.	2.5	7
99	Bifurcation Analysis of Ocean, Atmosphere, and Climate Models. Handbook of Numerical Analysis, 2009, 14, 187-229.	1.8	13
100	Zonal Flow Regime Changes in a GCM and in a Simple Quasigeostrophic Model: The Role of Stratospheric Dynamics. Journals of the Atmospheric Sciences, 2009, 66, 1366-1383.	1.7	5
101	Low-Cloud Fraction, Lower-Tropospheric Stability, and Large-Scale Divergence. Journal of Climate, 2009, 22, 4827-4844.	3.2	45
102	Accurate dating of Gallipoli Terrace (Ionian Sea) sediments: Historical eruptions and climate records. PAGES News, 2009, 17, 8-9.	0.3	6
103	A mechanistic model of mid-latitude decadal climate variability. Physica D: Nonlinear Phenomena, 2008, 237, 584-599.	2.8	8
104	Anthropogenic climate change: Scientific uncertainties and moral dilemmas. Physica D: Nonlinear Phenomena, 2008, 237, 2132-2138.	2.8	27
105	Climate dynamics and fluid mechanics: Natural variability and related uncertainties. Physica D: Nonlinear Phenomena, 2008, 237, 2111-2126.	2.8	141
106	Boolean delay equations: A simple way of looking at complex systems. Physica D: Nonlinear Phenomena, 2008, 237, 2967-2986.	2.8	60
107	Natural disasters impacting a macroeconomic model with endogenous dynamics. Ecological Economics, 2008, 68, 582-592.	5.7	117
108	Clustering of eastern North Pacific tropical cyclone tracks: ENSO and MJO effects. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	116

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109	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
110	Data Assimilation for a Coupled Oceanâ€“Atmosphere Model. Part II: Parameter Estimation. Monthly Weather Review, 2008, 136, 5062-5076.	1.4	49
111	Data assimilation as a nonlinear dynamical systems problem: Stability and convergence of the prediction-assimilation system. Chaos, 2008, 18, 023112.	2.5	43
112	North Atlantic climate variability in coupled models and data. Nonlinear Processes in Geophysics, 2008, 15, 13-24.	1.3	5
113	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
114	Weather Regime Prediction Using Statistical Learning. Journals of the Atmospheric Sciences, 2007, 64, 1619-1635.	1.7	34
115	Cluster Analysis of Typhoon Tracks. Part I: General Properties. Journal of Climate, 2007, 20, 3635-3653.	3.2	260
116	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
117	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
118	An Ensemble-Based Smoother with Retrospectively Updated Weights for Highly Nonlinear Systems. Monthly Weather Review, 2007, 135, 186-202.	1.4	16
119	A highly nonlinear coupled mode of decadal variability in a mid-latitude oceanâ€“atmosphere model. Dynamics of Atmospheres and Oceans, 2007, 43, 123-150.	1.8	22
120	Cluster Analysis of Typhoon Tracks. Part II: Large-Scale Circulation and ENSO. Journal of Climate, 2007, 20, 3654-3676.	3.2	261
121	Spatioâ€temporal variability in a midâ€latitude ocean basin subject to periodic wind forcing. Atmosphere - Ocean, 2007, 45, 227-250.	1.6	17
122	Reanalysis of relativistic radiation belt electron fluxes using CRRES satellite data, a radial diffusion model, and a Kalman filter. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	70
123	A Kalman filter technique to estimate relativistic electron lifetimes in the outer radiation belt. Journal of Geophysical Research, 2007, 112, .	3.3	55
124	Reply to T. Schneider's comment on "Spatio-temporal filling of missing points in geophysical data sets". Nonlinear Processes in Geophysics, 2007, 14, 3-4.	1.3	6
125	Graphical models for statistical inference and data assimilation. Physica D: Nonlinear Phenomena, 2007, 230, 72-87.	2.8	45
126	Probabilistic clustering of extratropical cyclones using regression mixture models. Climate Dynamics, 2007, 29, 423-440.	3.8	138

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127	Predicting weather regime transitions in Northern Hemisphere datasets. Climate Dynamics, 2007, 29, 535-551.	3.8	15
128	Scale separation for moisture-laden regions in the tropical atmosphere. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	1
129	Spatio-temporal filling of missing points in geophysical data sets. Nonlinear Processes in Geophysics, 2006, 13, 151-159.	1.3	277
130	Dynamical Origin of Low-Frequency Variability in a Highly Nonlinear Midlatitude Coupled Model. Journal of Climate, 2006, 19, 6391-6408.	3.2	22
131	Multiple Regimes and Low-Frequency Oscillations in the Northern Hemisphereâ€™s Zonal-Mean Flow. Journals of the Atmospheric Sciences, 2006, 63, 840-860.	1.7	26
132	Empirical Mode Reduction in a Model of Extratropical Low-Frequency Variability. Journals of the Atmospheric Sciences, 2006, 63, 1859-1877.	1.7	46
133	Estimating model parameters for an impact-produced shock-wave simulation: Optimal use of partial data with the extended Kalman filter. Journal of Computational Physics, 2006, 214, 725-737.	3.8	6
134	Averaging of time - periodic systems without a small parameter. Discrete and Continuous Dynamical Systems, 2006, 14, 753-782.	0.9	6
135	Multilevel Regression Modeling of Nonlinear Processes: Derivation and Applications to Climatic Variability. Journal of Climate, 2005, 18, 4404-4424.	3.2	121
136	Bimodal Behavior in the Zonal Mean Flow of a Baroclinic Î²-Channel Model. Journals of the Atmospheric Sciences, 2005, 62, 1746-1769.	1.7	25
137	Homoclinic bifurcations in the quasi-geostrophic double-gyre circulation. Journal of Marine Research, 2005, 63, 931-956.	0.3	79
138	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
139	A Hierarchy of Data-Based ENSO Models. Journal of Climate, 2005, 18, 4425-4444.	3.2	100
140	Structural Bifurcation of 2-D Nondivergent Flows with Dirichlet Boundary Conditions: Applications to Boundary-Layer Separation. SIAM Journal on Applied Mathematics, 2005, 65, 1576-1596.	1.8	25
141	Low-frequency variability of the large-scale ocean circulation: A dynamical systems approach. Reviews of Geophysics, 2005, 43, .	23.0	202
142	Oscillatory modes of extended Nile River records (A.D. 622â€“1922). Geophysical Research Letters, 2005, 32, .	4.0	101
143	Sensitivity Analysis of Cirrus Cloud Properties from High-Resolution Infrared Spectra. Part I: Methodology and Synthetic Cirrus. Journal of Climate, 2004, 17, 4856-4870.	3.2	14
144	Boundary-layer separation and adverse pressure gradient for 2-D viscous incompressible flow. Physica D: Nonlinear Phenomena, 2004, 197, 149-173.	2.8	30

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145	Intrinsic and climatic factors in North-American animal population dynamics. BMC Ecology, 2004, 4, 6.	3.0	13
146	Data assimilation with an extended Kalman filter for impact-produced shock-wave dynamics. Journal of Computational Physics, 2004, 196, 705-723.	3.8	13
147	Rapid switch-like sea ice growth and land ice-sea ice hysteresis. Paleoceanography, 2004, 19, n/a-n/a.	3.0	18
148	Weather Regimes and Preferred Transition Paths in a Three-Level Quasigeostrophic Model. Journals of the Atmospheric Sciences, 2004, 61, 568-587.	1.7	66
149	Low-Frequency Variability in the Midlatitude Atmosphere Induced by an Oceanic Thermal Front. Journals of the Atmospheric Sciences, 2004, 61, 961-981.	1.7	77
150	Interdecadal Variability in a Hybrid Coupled Oceanâ€“Atmosphereâ€“Sea Ice Model. Journal of Physical Oceanography, 2004, 34, 1756-1775.	1.7	21
151	Mountain Torques and Northern Hemisphere Low-Frequency Variability. Part I: Hemispheric Aspects. Journals of the Atmospheric Sciences, 2004, 61, 1259-1271.	1.7	25
152	Mountain Torques and Northern Hemisphere Low-Frequency Variability.Part II: Regional Aspects. Journals of the Atmospheric Sciences, 2004, 61, 1272-1283.	1.7	21
153	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
154	A Boolean Delay Equation Model of Colliding Cascades. Part I: Multiple Seismic Regimes. Journal of Statistical Physics, 2003, 111, 815-837.	1.2	32
155	Large-scale and evaporation-wind feedbacks in a box model of the tropical climate. Geophysical Research Letters, 2003, 30, .	4.0	13
156	Hopf Bifurcation in Quasi-geostrophic Channel Flow. SIAM Journal on Applied Mathematics, 2003, 64, 343-368.	1.8	24
157	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
158	Successive Refinements in Longâ€Term Integrations of Planetary Orbits. Astrophysical Journal, 2003, 592, 620-630.	4.5	100
159	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
160	Low-Frequency Variability in a BaroclinicÎ²Channel with Landâ€“Sea Contrast*. Journals of the Atmospheric Sciences, 2003, 60, 2267-2293.	1.7	14
161	CLIMATE VARIABILITY | Nonlinear Aspects. , 2003, , 432-438.		1
162	Successive bifurcations in a simple model of atmospheric zonal-flow vacillation. Chaos, 2002, 12, 300-309.	2.5	21

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163	"Waves" vs. "particles" in the atmosphere's phase space: A pathway to long-range forecasting?. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2493-2500.	7.1	154
164	Data Assimilation for a Coupled Oceanâ€"Atmosphere Model. Part I: Sequential State Estimation. Monthly Weather Review, 2002, 130, 1073-1099.	1.4	18
165	Advanced spectral methods for climatic time series. Reviews of Geophysics, 2002, 40, 3-1.	23.0	1,695
166	Probing near-surface atmospheric turbulence with high-resolution lidar measurements and models. Journal of Geophysical Research, 2002, 107, ACL 7-1-ACL 7-9.	3.3	5
167	Multiple regimes and low-frequency oscillations in the Southern Hemisphere's zonal-mean flow. Journal of Geophysical Research, 2002, 107, ACL 14-1-ACL 14-13.	3.3	28
168	Phase relations between climate proxy records: Potential effect of seasonal precipitation changes. Geophysical Research Letters, 2002, 29, 11-1.	4.0	13
169	Baroclinic and barotropic aspects of the wind-driven ocean circulation. Physica D: Nonlinear Phenomena, 2002, 167, 1-35.	2.8	32
170	mountain torques and atmospheric oscillations. Geophysical Research Letters, 2001, 28, 1207-1210.	4.0	24
171	Experimental and numerical studies of an eastward jet over topography. Journal of Fluid Mechanics, 2001, 438, 129-157.	3.4	32
172	Hilbert problems for the geosciences in the 21st century. Nonlinear Processes in Geophysics, 2001, 8, 211-211.	1.3	60
173	A Climatology of Turbulent Dispersion in the Troposphere. Journals of the Atmospheric Sciences, 2001, 58, 2377-2394.	1.7	34
174	Transition to Aperiodic Variability in a Wind-Driven Double-Gyre Circulation Model. Journal of Physical Oceanography, 2001, 31, 1260-1286.	1.7	69
175	Structural bifurcation of 2-D incompressible flows. Indiana University Mathematics Journal, 2001, 50, 159-180.	0.9	34
176	Atmospheric radiative equilibria. Part II: bimodal solutions for atmospheric optical properties. Climate Dynamics, 2001, 18, 29-49.	3.8	11
177	A Boolean delay equation model of ENSO variability. Physica D: Nonlinear Phenomena, 2001, 160, 54-78.	2.8	29
178	Probing near-surface atmospheric turbulence with lidar measurements and high-resolution hydrodynamic models. , 2001, 4153, 199.		0
179	Solving Problems with GCMs: General Circulation Models and Their Role in the Climate Modeling Hierarchy. International Geophysics, 2000, , 285-325.	0.6	44
180	Interdecadal Changes in Atmospheric Low-Frequency Variability with and without Boundary Forcing*. Journals of the Atmospheric Sciences, 2000, 57, 1132-1140.	1.7	18

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181	Intraseasonal Variability in a Two-Layer Model and Observations. Journals of the Atmospheric Sciences, 2000, 57, 1010-1028.	1.7	12
182	Data-adaptive wavelets and multi-scale singular-spectrum analysis. Physica D: Nonlinear Phenomena, 2000, 142, 254-290.	2.8	131
183	DAMÃ‰-NAB: the base experiments. Dynamics of Atmospheres and Oceans, 2000, 32, 155-183.	1.8	110
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