

Shaoqing Zhang

List of Publications by Year in descending order

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122
papers

3,690
citations

147801

31
h-index

149698

56
g-index

125
all docs

125
docs citations

125
times ranked

3809
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of spatially and temporally varying estimates of error covariance on assimilation in a simple atmospheric model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 55, 126.	1.7	30
2	A study of enhanceive parameter correction with coupled data assimilation for climate estimation and prediction using a simple coupled model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 64, 10963.	1.7	54
3	Threat by marine heatwaves to adaptive large marine ecosystems in an eddy-resolving model. <i>Nature Climate Change</i> , 2022, 12, 179-186.	18.8	32
4	The Behavior of Moist Potential Vorticity in the Interactions of Binary Typhoons Lekima and Krosa (2019) in with Different High-Resolution Simulations. <i>Atmosphere</i> , 2022, 13, 281.	2.3	1
5	Role of Seaâ€œSurface Salinity in Simulating Historical Decadal Variations of Atlantic Meridional Overturning Circulation in a Coupled Climate Model. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
6	An Initial Field Intelligent Correcting Algorithm for Numerical Forecasting Based on Artificial Neural Networks under the Conditions of Limited Observations: Part lâ€œFocusing on Ocean Temperature. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 311.	2.6	1
7	On the Intermittent Occurrence of Openâ€œOcean Polynyas in a Multiâ€œCentury Highâ€œResolution Preindustrial Earth System Model Simulation. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	2
8	An Information Spatial-Temporal Extension Algorithm for Shipborne Predictions Based on Deep Neural Networks with Remote Sensing Observationsâ€œPart I: Ocean Temperature. <i>Remote Sensing</i> , 2022, 14, 1791.	4.0	2
9	A Cloud Classification Method Based on a Convolutional Neural Network for FY-4A Satellites. <i>Remote Sensing</i> , 2022, 14, 2314.	4.0	7
10	Investigating Extratropical Influence on the Equatorial Atlantic Zonal Bias with Regional Data Assimilation. <i>Journal of Climate</i> , 2022, 35, 6101-6117.	3.2	1
11	An online ensemble coupled data assimilation capability for the Community Earth System Model: system design and evaluation. <i>Geoscientific Model Development</i> , 2022, 15, 4805-4830.	3.6	2
12	Role of Ocean and Atmosphere Variability in Scaleâ€œDependent Thermodynamic Airâ€œSea Interactions. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	6
13	A study of predictability of coupled oceanâ€œatmosphere system using attractor radius and global attractor radius. <i>Climate Dynamics</i> , 2021, 56, 1317-1334.	3.8	3
14	A multi-model study of atmosphere predictability in coupled oceanâ€œatmosphere systems. <i>Climate Dynamics</i> , 2021, 56, 3489-3509.	3.8	3
15	Improved Modeling of Spatiotemporal Variations of Fine Particulate Matter Using a Threeâ€œDimensional Variational Data Fusion Method. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033599.	3.3	3
16	Development of Coupled Data Assimilation With the BCC Climate System Model: Highlighting the Role of Seaâ€œIce Assimilation for Global Analysis. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002368.	3.8	14
17	Characteristics of 3â€œDimensional Structure and Heat Budget of Mesoscale Eddies in the South Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016922.	2.6	2
18	Optimization for the Assessment of Spudcan Peak Resistance in Clayâ€œSandâ€œClay Deposits. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 689.	2.6	3

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19	Introducing the New Regional Community Earth System Model, R-CESM. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1821-E1843.	3.3	1
20	Optimal estimation of initial concentrations and emission sources with 4D-Var for air pollution prediction in a 2D transport model. <i>Science of the Total Environment</i> , 2021, 773, 145580.	8.0	5
21	A New Scheme of Adaptive Covariance Inflation for Ensemble Filtering Data Assimilation. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1054.	2.6	0
22	Global Oceanic Overturning Circulation Forced by the Competition between Greenhouse Gases and Continental Ice Sheets during the Last Deglaciation. <i>Journal of Climate</i> , 2021, 34, 7555-7570.	3.2	5
23	An outsized role for the Labrador Sea in the multidecadal variability of the Atlantic overturning circulation. <i>Science Advances</i> , 2021, 7, eabh3592.	10.3	41
24	A study of capturing Atlantic meridional overturning circulation (AMOC) regime transition through observation-constrained model parameters. <i>Nonlinear Processes in Geophysics</i> , 2021, 28, 481-500.	1.3	3
25	Mesoscale Surface Wind–SST Coupling in a High-Resolution CESM Over the KE and ARC Regions. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002822.	3.8	6
26	Model Forecast Error Correction Based on the Local Dynamical Analog Method: An Example Application to the ENSO Forecast by an Intermediate Coupled Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088986.	4.0	7
27	A high-resolution Asia-Pacific regional coupled prediction system with dynamically downscaling coupled data assimilation. <i>Science Bulletin</i> , 2020, 65, 1849-1858.	9.0	12
28	Sensitivity of the Atlantic Meridional Overturning Circulation to Model Resolution in CMIP6 HighResMIP Simulations and Implications for Future Changes. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002014.	3.8	59
29	An Examination of the Predictability of Tropical Cyclone Genesis in High-Resolution Coupled Models with Dynamically Downscaled Coupled Data Assimilation Initialization. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 939-950.	4.3	8
30	An Examination of Circulation Characteristics in the Luzon Strait and the South China Sea Using High-Resolution Regional Atmosphere–Ocean Coupled Models. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016253.	2.6	10
31	Improved Prediction of Spudcan Penetration Resistance by an Observation-Optimized Model. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	3.0	8
32	The climate impact on atmospheric stagnation and capability of stagnation indices in elucidating the haze events over North China Plain and Northeast China. <i>Chemosphere</i> , 2020, 258, 127335.	8.2	20
33	Assessment of the JMA Serial Observation Lines in the Northwestern Pacific in OSSE Studies with the GFDL Ensemble Coupled Data Assimilation System. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015686.	2.6	2
34	Clinical features of transverse myelitis associated with systemic lupus erythematosus. <i>Lupus</i> , 2020, 29, 389-397.	1.6	22
35	Characteristics and sources of PM2.5 with focus on two severe pollution events in a coastal city of Qingdao, China. <i>Chemosphere</i> , 2020, 247, 125861.	8.2	23
36	Coupled data assimilation and parameter estimation in coupled ocean–atmosphere models: a review. <i>Climate Dynamics</i> , 2020, 54, 5127-5144.	3.8	53

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37	An Unprecedented Set of High-Resolution Earth System Simulations for Understanding Multiscale Interactions in Climate Variability and Change. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002298.	3.8	104
38	Optimizing high-resolution Community Earth System Model on a heterogeneous many-core supercomputing platform. <i>Geoscientific Model Development</i> , 2020, 13, 4809-4829.	3.6	30
39	Impact of Coherent Ocean Stratification on AMOC Reconstruction by Coupled Data Assimilation with a Biased Model. <i>Journal of Climate</i> , 2020, 33, 7319-7334.	3.2	3
40	A Multi-timescale EnOlike High-Efficiency Approximate Filter for Coupled Model Data Assimilation. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 45-63.	3.8	8
41	Sensitivity determined simultaneous estimation of multiple parameters in coupled models: part I—based on single model component sensitivities. <i>Climate Dynamics</i> , 2019, 53, 5349-5373.	3.8	8
42	The jet characteristics of bubbles near mixed boundaries. <i>Physics of Fluids</i> , 2019, 31, .	4.0	44
43	Case Study of Fog Predictability for an Event with Cold-Front Synoptic Pattern. <i>Journal of Ocean University of China</i> , 2019, 18, 271-281.	1.2	0
44	Chinese Systemic Lupus Erythematosus Treatment and Research Group (CSTAR) Registry XI: gender impact on long-term outcomes. <i>Lupus</i> , 2019, 28, 635-641.	1.6	11
45	Long-term mortality and morbidity of patients with systemic lupus erythematosus: a single-center cohort study in China. <i>Lupus</i> , 2018, 27, 864-869.	1.6	28
46	Estimating Convection Parameters in the GFDL CM2.1 Model Using Ensemble Data Assimilation. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 989-1010.	3.8	10
47	Modeling Global Ocean Biogeochemistry With Physical Data Assimilation: A Pragmatic Solution to the Equatorial Instability. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 891-906.	3.8	35
48	Regional Coupled Model and Data Assimilation. <i>Advances in Meteorology</i> , 2018, 2018, 1-2.	1.6	1
49	An OSSE Study for Deep Argo Array using the GFDL Ensemble Coupled Data Assimilation System. <i>Ocean Science Journal</i> , 2018, 53, 179-189.	1.3	4
50	Arabidopsis FIM4 and FIM5 regulates the growth of root hairs in an auxin-insensitive way. <i>Plant Signaling and Behavior</i> , 2018, 13, e1473667.	2.4	8
51	Air-gun array optimization method based on Hilbert transform. , 2018, , .		0
52	Numerical study on the pressure wave emitted from an annular opening air gun using OpenFOAM. , 2018, , .		0
53	Comparison of the Atlantic meridional overturning circulation between 1960 and 2007 in six ocean reanalysis products. <i>Climate Dynamics</i> , 2017, 49, 957-982.	3.8	89
54	Understanding the control of extratropical atmospheric variability on ENSO using a coupled data assimilation approach. <i>Climate Dynamics</i> , 2017, 48, 3139-3160.	3.8	29

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55	Gastrointestinal system involvement in systemic lupus erythematosus. <i>Lupus</i> , 2017, 26, 1127-1138.	1.6	74
56	Dynamic characteristics of large scale spark bubbles close to different boundaries. <i>Physics of Fluids</i> , 2017, 29, .	4.0	55
57	Impact of the time scale of model sensitivity response on coupled model parameter estimation. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1346-1357.	4.3	5
58	Assessing extratropical impact on the tropical bias in coupled climate model with regional coupled data assimilation. <i>Geophysical Research Letters</i> , 2017, 44, 3384-3392.	4.0	7
59	A Potential Density Gradient Dependent Analysis Scheme for Ocean Multiscale Data Assimilation. <i>Advances in Meteorology</i> , 2017, 2017, 1-13.	1.6	0
60	Impact of an observational time window on coupled data assimilation: simulation with a simple climate model. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 681-694.	1.3	6
61	Reconstruction of Typhoon Structure Using 3-Dimensional Doppler Radar Radial Velocity Data with the Multigrid Analysis: A Case Study in an Idealized Simulation Context. <i>Advances in Meteorology</i> , 2016, 2016, 1-10.	1.6	4
62	Experimental study on the interaction between bubble and free surface using a high-voltage spark generator. <i>Physics of Fluids</i> , 2016, 28, .	4.0	86
63	Reply to Parker: Robust response of AMOC interdecadal variability to future intense warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2762-E2763.	7.1	0
64	Role of anti- β 2glycoprotein I antibodies in the diagnosis and risk stratification of antiphospholipid syndrome: comment. <i>Journal of Thrombosis and Haemostasis</i> , 2016, 14, 2076-2078.	3.8	8
65	Assimilating atmosphere reanalysis in coupled data assimilation. <i>Journal of Meteorological Research</i> , 2016, 30, 572-583.	2.4	5
66	Implementation of a one-dimensional enthalpy sea-ice model in a simple pycnocline prediction model for sea-ice data assimilation studies. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 193-207.	4.3	1
67	Correction of biased climate simulated by biased physics through parameter estimation in an intermediate coupled model. <i>Climate Dynamics</i> , 2016, 47, 1899-1912.	3.8	7
68	The Role of Large-Scale Feedbacks in Cumulus Convection Parameter Estimation. <i>Journal of Climate</i> , 2016, 29, 4099-4119.	3.2	4
69	A study of the impact of parameter optimization on ENSO predictability with an intermediate coupled model. <i>Climate Dynamics</i> , 2016, 46, 711-727.	3.8	21
70	Wnt activation protects against neomycin-induced hair cell damage in the mouse cochlea. <i>Cell Death and Disease</i> , 2016, 7, e2136-e2136.	6.3	120
71	Reduced interdecadal variability of Atlantic Meridional Overturning Circulation under global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3175-3178.	7.1	38
72	XBT Effects on the Global Ocean State Estimates Using a Coupled Data Assimilation System. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2016, 27, 1019-1031.	0.6	1

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73	Strongly Coupled Data Assimilation Using Leading Averaged Coupled Covariance (LACC). Part I: Simple Model Study*. Monthly Weather Review, 2015, 143, 3823-3837.	1.4	34
74	Impact of having realistic tropical cyclone frequency on ocean heat content and transport forecasts in a high-resolution coupled model. Geophysical Research Letters, 2015, 42, 5966-5973.	4.0	9
75	Strongly Coupled Data Assimilation Using Leading Averaged Coupled Covariance (LACC). Part II: CGCM Experiments*. Monthly Weather Review, 2015, 143, 4645-4659.	1.4	28
76	A Study of Coupling Parameter Estimation Implemented by 4D-Var and EnKF with a Simple Coupled System. Advances in Meteorology, 2015, 2015, 1-16.	1.6	8
77	Data Assimilation in Numerical Weather and Climate Models. Advances in Meteorology, 2015, 2015, 1-2.	1.6	3
78	Climate drift of AMOC, North Atlantic salinity and arctic sea ice in CFSv2 decadal predictions. Climate Dynamics, 2015, 44, 559-583.	3.8	34
79	An extreme event of sea-level rise along the Northeast coast of North America in 2009-2010. Nature Communications, 2015, 6, 6346.	12.8	147
80	Parameter Optimization in an Intermediate Coupled Climate Model with Biased Physics. Journal of Climate, 2015, 28, 1227-1247.	3.2	18
81	Improved Seasonal Prediction of Temperature and Precipitation over Land in a High-Resolution GFDL Climate Model. Journal of Climate, 2015, 28, 2044-2062.	3.2	141
82	Chinese SLE Treatment and Research group (CSTAR) registry: V. gender impact on Chinese patients with systemic lupus erythematosus. Lupus, 2015, 24, 1267-1275.	1.6	23
83	Mitigation of coupled model biases induced by dynamical core misfitting through parameter optimization: simulation with a simple pycnocline prediction model. Nonlinear Processes in Geophysics, 2014, 21, 357-366.	1.3	11
84	Ensemble-Based Parameter Estimation in a Coupled GCM Using the Adaptive Spatial Average Method*. Journal of Climate, 2014, 27, 4002-4014.	3.2	27
85	Could pulmonary arterial hypertension be an active index of systemic lupus erythematosus? A successful case of SLE-PAH cured by methylprednisolone pulse therapy. Lupus, 2014, 23, 1533-1536.	1.6	18
86	Predicting a Decadal Shift in North Atlantic Climate Variability Using the GFDL Forecast System. Journal of Climate, 2014, 27, 6472-6496.	3.2	84
87	Balanced and Coherent Climate Estimation by Combining Data with a Biased Coupled Model. Journal of Climate, 2014, 27, 1302-1314.	3.2	16
88	Temperature dependent near infrared ultraviolet range dielectric functions of nanocrystalline (Na _{0.5} Bi _{0.5}) _{1-x} Cex(Ti _{0.99} Fe _{0.01})O ₃ films. Applied Physics Letters, 2014, 104, 041106.	3.3	8
89	A Compensatory Approach of the Fixed Localization in EnKF. Monthly Weather Review, 2014, 142, 3713-3733.	1.4	12
90	On the Seasonal Forecasting of Regional Tropical Cyclone Activity. Journal of Climate, 2014, 27, 7994-8016.	3.2	340

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91	Ensemble-Based Parameter Estimation in a Coupled General Circulation Model. <i>Journal of Climate</i> , 2014, 27, 7151-7162.	3.2	28
92	Retrieval of tropical cyclone statistics with a high-resolution coupled model and data. <i>Geophysical Research Letters</i> , 2014, 41, 652-660.	4.0	10
93	Passively Q-switched Tm,Ho:LuLiF ₄ laser with near constant pulse energy and duration. <i>Applied Physics B: Lasers and Optics</i> , 2013, 111, 165-168.	2.2	9
94	A study of impact of the geographic dependence of observing system on parameter estimation with an intermediate coupled model. <i>Climate Dynamics</i> , 2013, 40, 1789-1798.	3.8	24
95	An assessment of oceanic variability for 1960–2010 from the GFDL ensemble coupled data assimilation. <i>Climate Dynamics</i> , 2013, 40, 775-803.	3.8	130
96	Hydrogen Production from Bio-Char via Steam Gasification in a Fluidized-Bed Reactor. <i>Chemical Engineering and Technology</i> , 2013, 36, 1599-1602.	1.5	10
97	P2Y12 protects platelets from apoptosis via PI3K-dependent Bak/Bax inactivation. <i>Journal of Thrombosis and Haemostasis</i> , 2013, 11, 149-160.	3.8	27
98	CO ₂ Capture and Desulfurization in Chemical Looping Combustion of Coal with a CaSO ₄ Oxygen Carrier. <i>Chemical Engineering and Technology</i> , 2013, 36, 1469-1478.	1.5	20
99	Ensemble data assimilation in a simple coupled climate model: The role of ocean-atmosphere interaction. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1235-1248.	4.3	23
100	Error Covariance Estimation for Coupled Data Assimilation Using a Lorenz Atmosphere and a Simple Pycnocline Ocean Model. <i>Journal of Climate</i> , 2013, 26, 10218-10231.	3.2	42
101	A Predictable AMO-Like Pattern in the GFDL Fully Coupled Ensemble Initialization and Decadal Forecasting System. <i>Journal of Climate</i> , 2013, 26, 650-661.	3.2	97
102	Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations. <i>Journal of Climate</i> , 2013, 26, 5337-5357.	3.2	57
103	Electronic transition and electrical transport properties of delafossite CuCr _{1-x} Mg _x O ₂ (0 ≤ x ≤ 0.12) films prepared by the sol-gel method: A composition dependence study. <i>Journal of Applied Physics</i> , 2013, 114, 163526.	2.5	36
104	Impact of Enthalpy-Based Ensemble Filtering Sea Ice Data Assimilation on Decadal Predictions: Simulation with a Conceptual Pycnocline Prediction Model. <i>Journal of Climate</i> , 2013, 26, 2368-2378.	3.2	6
105	Impact of Geographic-Dependent Parameter Optimization on Climate Estimation and Prediction: Simulation with an Intermediate Coupled Model. <i>Monthly Weather Review</i> , 2012, 140, 3956-3971.	1.4	33
106	Effects of Ti and Mg Codoping on the Electrochemical Performance of Li ₃ V ₂ (PO ₄) ₃ Cathode Material for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15048-15056.	3.1	107
107	Impact of observation-optimized model parameters on decadal predictions: Simulation with a simple pycnocline prediction model. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	33
108	A construction of pseudo salinity profiles for the global ocean: Method and evaluation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13

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109	Improvement of salinity representation in an ensemble coupled data assimilation system using pseudo salinity profiles. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	6
110	Effects of Cr doping on the electrochemical performance of Li ₃ V ₂ (PO ₄) ₃ cathode material for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2633-2638.	2.5	42
111	Electric-field control of phase separation and memory effect in Pr _{0.6} Ca _{0.4} MnO ₃ /Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ heterostructures. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	38
112	A Study of Impacts of Coupled Model Initial Shocks and State-Parameter Optimization on Climate Predictions Using a Simple Pycnocline Prediction Model. <i>Journal of Climate</i> , 2011, 24, 6210-6226.	3.2	51
113	Synthesis and characteristics of nanostructured Li(Co _{1/3} Ni _{1/3} Mn _{1/3})O ₂ cathode material prepared at 0Å°C. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 871-875.	2.5	21
114	An Inflated Ensemble Filter for Ocean Data Assimilation with a Biased Coupled GCM. <i>Monthly Weather Review</i> , 2010, 138, 3905-3931.	1.4	52
115	The Adequacy of Observing Systems in Monitoring the Atlantic Meridional Overturning Circulation and North Atlantic Climate. <i>Journal of Climate</i> , 2010, 23, 5311-5324.	3.2	29
116	Objective analysis of monthly temperature and salinity for the world ocean in the 21st century: Comparison with World Ocean Atlas and application to assimilation validation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	18
117	Detection of multidecadal oceanic variability by ocean data assimilation in the context of a "perfect" coupled model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	25
118	System Design and Evaluation of Coupled Ensemble Data Assimilation for Global Oceanic Climate Studies. <i>Monthly Weather Review</i> , 2007, 135, 3541-3564.	1.4	331
119	Initialization of an ENSO Forecast System Using a Parallelized Ensemble Filter. <i>Monthly Weather Review</i> , 2005, 133, 3176-3201.	1.4	62
120	Impact of spatially and temporally varying estimates of error covariance on assimilation in a simple atmospheric model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2003, 55, 126-147.	1.7	24
121	Examination of Numerical Results from Tangent Linear and Adjoint of Discontinuous Nonlinear Models. <i>Monthly Weather Review</i> , 2001, 129, 2791-2804.	1.4	15
122	The linear behavior of the joint initial-boundary-value predictability of the climate system. <i>Climate Dynamics</i> , 0, , .	3.8	0