Richard Kleeman

List of Publications by Year
in descending order

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53 papers	3,221 citations	136950 32 h-index	189892 50 g-index
53 all docs	53 docs citations	53 times ranked	1621 citing authors

#	Article	IF	Citations
1	A mechanism for generating ENSO decadal variability. Geophysical Research Letters, 1999, 26, 1743-1746.	4.0	296
2	Rectification of the Maddenâ€“Julian Oscillation into the ENSO Cycle. Journal of Climate, 2000, 13, 3560-3575.	3.2	273
3	Stochastic Forcing of ENSO by the Intraseasonal Oscillation. Journal of Climate, 1999, 12, 1199-1220.	3.2	254
4	Measuring Dynamical Prediction Utility Using Relative Entropy. Journals of the Atmospheric Sciences, 2002, 59, 2057-2072.	1.7	245
5	A Theory for the Limitation of ENSO Predictability Due to Stochastic Atmospheric Transients. Journals of the Atmospheric Sciences, 1997, 54, 753-767.	1.7	197
6	The dynamics of error growth and predictability in a coupled model of ENSO. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 1405-1446.	2.7	172
7	Information Transfer between Dynamical System Components. Physical Review Letters, 2005, 95, 244101.	7.8	113
8	A new intermediate coupled model for El NiÃ±o simulation and prediction. Geophysical Research Letters, 2003, 30, .	4.0	91
9	Assimilation of Subsurface Thermal Data into a Simple Ocean Model for the Initialization of an Intermediate Tropical Coupled Ocean-Atmosphere Forecast Model. Monthly Weather Review, 1995, 123, 3103-3114.	1.4	75
10	On the Dependence of Hindcast Skill on Ocean Thermodynamics in a Coupled Ocean-Atmosphere Model. Journal of Climate, 1993, 6, 2012-2033.	3.2	73
11	Retrospective El NiÃ±o Forecasts Using an Improved Intermediate Coupled Model. Monthly Weather Review, 2005, 133, 2777-2802.	1.4	71
12	Information Theory and Predictability for Low-Frequency Variability. Journals of the Atmospheric Sciences, 2005, 62, 65-87.	1.7	66
13	Annual cycle of equatorial zonal currents in the Pacific. Journal of Geophysical Research, 2002, 107, 8-1.	3.3	64
14	The Nonnormal Nature of El NiÃ±o and Intraseasonal Variability. Journal of Climate, 1999, 12, 2965-2982.	3.2	58
15	Reliability of ENSO Dynamical Predictions. Journals of the Atmospheric Sciences, 2005, 62, 1770-1791.	1.7	57
16	A Comparison of the Influence of Additive and Multiplicative Stochastic Forcing on a Coupled Model of ENSO. Journal of Climate, 2005, 18, 5066-5085.	3.2	56
17	A Simple Atmospheric Model of Surface Heat Flux for Use in Ocean Modeling Studies. Journal of Physical Oceanography, 1995, 25, 92-105.	1.7	55
18	Information Theory and Dynamical System Predictability. Entropy, 2011, 13, 612-649.	2.2	53

#	Article	IF	Citations
19	The Calculation of Climatically Relevant Singular Vectors in the Presence of Weather Noise as Applied to the ENSO Problem. Journals of the Atmospheric Sciences, 2003, 60, 2856-2868.	1.7	51
20	The BMRC Coupled General Circulation Model ENSO Forecast System. Monthly Weather Review, 2002, 130, 975-991.	1.4	48
21	Interannual and Decadal Variability in an Intermediate Coupled Model of the Pacific Region*. Journal of Climate, 2003, 16, 383-405.	3.2	46
22	A New Method for Determining the Reliability of Dynamical ENSO Predictions. Monthly Weather Review, 1999, 127, 694-705.	1.4	44
23	A Modeling Study of the Effect of the Andes on the Summertime Circulation of Tropical South America. Journals of the Atmospheric Sciences, 1989, 46, 3344-3362.	1.7	40
24	ENSO Predictability of a Fully Coupled GCM Model Using Singular Vector Analysis. Journal of Climate, 2006, 19, 3361-3377.	3.2	40
25	Stochastic theories for the irregularity of ENSO. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 2509-2524.	3.4	40
26	SST Assimilation Experiments in a Tropical Pacific Ocean Model. Journal of Physical Oceanography, 2004, 34, 623-642.	1.7	38
27	An Empirical Parameterization of Subsurface Entrainment Temperature for Improved SST Anomaly Simulations in an Intermediate Ocean Model. Journal of Climate, 2005, 18, 350-371.	3.2	38
28	Nonlinear partial differential equations and applications: Quantifying predictability in a model with statistical features of the atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15291-15296.	7.1	37
29	The Differences between the Optimal Perturbations of Coupled Models of ENSO. Journal of Climate, 2001, 14, 138-163.	3.2	36
30	Optimal Forcing Patterns for Coupled Models of ENSO. Journal of Climate, 2006, 19, 4683-4699.	3.2	36
31	Measuring the potential utility of seasonal climate predictions. Geophysical Research Letters, 2004, 31, .	4.0	35
32	Predictability in a Model of Geophysical Turbulence. Journals of the Atmospheric Sciences, 2005, 62, 2864-2879.	1.7	33
33	The Role of Airâ€“Sea Interaction in Controlling the Optimal Perturbations of Low-Frequency Tropical Coupled Oceanâ€“Atmosphere Modes. Journal of Climate, 2003, 16, 951-968.	3.2	33
34	The Relationship between Oscillating Subtropical Wind Stress and Equatorial Temperature*. Journal of Physical Oceanography, 2002, 32, 1507-1521.	1.7	32
35	A rigorous formalism of information transfer between dynamical system components. I. Discrete mapping. Physica D: Nonlinear Phenomena, 2007, 231, 1-9.	2.8	29
36	Spectral Analysis of Tropical Atmospheric Dynamical Variables Using a Linear Shallow-Water Modal Decomposition. Journals of the Atmospheric Sciences, 2012, 69, 2300-2316.	1.7	29

#	Article	IF	Citations
37	Limits to predictability in a coupled ocean-atmosphere model due to atmospheric noise. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 46, 529.	1.7	28
38	A recent change in the mean state of the Pacific basin climate: Observational evidence and atmospheric and oceanic responses. Journal of Geophysical Research, 1996, 101, 20483-20499.	3.3	28
39	Comparison of Information-Based Measures of Forecast Uncertainty in Ensemble ENSO Prediction. Journal of Climate, 2008, 21, 230-247.	3.2	28
40	A rigorous formalism of information transfer between dynamical system components. II. Continuous flow. Physica D: Nonlinear Phenomena, 2007, 227, 173-182.	2.8	26
41	Information Flow in Ensemble Weather Predictions. Journals of the Atmospheric Sciences, 2007, 64, 1005-1016.	1.7	23
42	Limits to predictability in a coupled ocean-atmosphere model due to atmospheric noise. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 529-540.	1.7	21
43	Limits, Variability, and General Behavior of Statistical Predictability of the Midlatitude Atmosphere. Journals of the Atmospheric Sciences, 2008, 65, 263-275.	1.7	21
44	Irregularity and decadal variation in ENSO: a simplified model based on Principal Oscillation Patterns. Climate Dynamics, 2014, 43, 3327-3350.	3.8	20
45	Spectral Analysis of Multidimensional Stochastic Geophysical Models with an Application to Decadal ENSO Variability. Journals of the Atmospheric Sciences, 2011, 68, 13-25.	1.7	14
46	The use of ocean reanalysis products to initialize ENSO predictions. Geophysical Research Letters, 2003, 30, .	4.0	13
47	Statistical predictability in the atmosphere and other dynamical systems. Physica D: Nonlinear Phenomena, 2007, 230, 65-71.	2.8	13
48	A new strategy for assimilating SST data for ENSO predictions. Geophysical Research Letters, 2002, 29, 22-1-22-4.	4.0	10
49	An off-line, numerically efficient initialization scheme in an oceanic general circulation model for El NiÃ±oâ€“Southern Oscillation prediction. Journal of Geophysical Research, 2004, 109, .	3.3	10
50	A Nonequilibrium Statistical Model of Spectrally Truncated Burgersâ€“Hopf Dynamics. Communications on Pure and Applied Mathematics, 2014, 67, 1905-1946.	3.1	7
51	A simple method for estimating variations in the predictability of ENSO. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	5
52	Modulation of ENSO Variability on Decadal and Longer Timescales. , 0, , 411-440.		0
53	Operational Experience with Climate Model Predictions. Atmospheric and Oceanographic Sciences Library, 2000, , 109-119.	0.1	0