

Eugenia Kalnay

List of Publications by Year in descending order

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199
papers

48,436
citations

22132

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187
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213
all docs

213
docs citations

213
times ranked

27921
citing authors

#	ARTICLE	IF	CITATIONS
1	The NCEP/NCAR 40-Year Reanalysis Project. <i>Bulletin of the American Meteorological Society</i> , 1996, 77, 437-471.	1.7	25,043
2	The NCEP-NCAR 50-Year Reanalysis: Monthly Means CD-ROM and Documentation. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 247-267.	1.7	3,710
3	North American Regional Reanalysis. <i>Bulletin of the American Meteorological Society</i> , 2006, 87, 343-360.	1.7	2,864
4	Impact of urbanization and land-use change on climate. <i>Nature</i> , 2003, 423, 528-531.	13.7	1,878
5	AIRS/AMSU/HSB on the aqua mission: design, science objectives, data products, and processing systems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 253-264.	2.7	1,271
6	Ensemble Forecasting at NMC: The Generation of Perturbations. <i>Bulletin of the American Meteorological Society</i> , 1993, 74, 2317-2330.	1.7	1,003
7	Ensemble Forecasting at NCEP and the Breeding Method. <i>Monthly Weather Review</i> , 1997, 125, 3297-3319.	0.5	893
8	AIRS. <i>Bulletin of the American Meteorological Society</i> , 2006, 87, 911-926.	1.7	595
9	Local cooling and warming effects of forests based on satellite observations. <i>Nature Communications</i> , 2015, 6, 6603.	5.8	392
10	A local ensemble Kalman filter for atmospheric data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 415-428.	0.8	366
11	A local ensemble Kalman filter for atmospheric data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 56, 415.	0.8	332
12	Operational Ensemble Prediction at the National Meteorological Center: Practical Aspects. <i>Weather and Forecasting</i> , 1993, 8, 379-398.	0.5	293
13	Dynamical Seasonal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 2593-2606.	1.7	270
14	Global Numerical Weather Prediction at the National Meteorological Center. <i>Bulletin of the American Meteorological Society</i> , 1990, 71, 1410-1428.	1.7	254
15	Human and nature dynamics (HANDY): Modeling inequality and use of resources in the collapse or sustainability of societies. <i>Ecological Economics</i> , 2014, 101, 90-102.	2.9	242
16	Simultaneous estimation of covariance inflation and observation errors within an ensemble Kalman filter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 523-533.	1.0	222
17	4-D-Var or ensemble Kalman filter?. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2007, 59, 758-773.	0.8	198
18	Balance and Ensemble Kalman Filter Localization Techniques. <i>Monthly Weather Review</i> , 2011, 139, 511-522.	0.5	194

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19	Lagged average forecasting, an alternative to Monte Carlo forecasting. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1983, 35A, 100-118.	0.8	184
20	Objective Verification of the SAMEX TM 98 Ensemble Forecasts. <i>Monthly Weather Review</i> , 2001, 129, 73-91.	0.5	173
21	Impacts of land use land cover on temperature trends over the continental United States: assessment using the North American Regional Reanalysis. <i>International Journal of Climatology</i> , 2010, 30, 1980-1993.	1.5	167
22	Role of sea surface temperature and soil-moisture feedback in the 1998 Oklahoma-Texas drought. <i>Nature</i> , 2000, 408, 842-844.	13.7	164
23	Local Low Dimensionality of Atmospheric Dynamics. <i>Physical Review Letters</i> , 2001, 86, 5878-5881.	2.9	155
24	Agricultural Green Revolution as a driver of increasing atmospheric CO2 seasonal amplitude. <i>Nature</i> , 2014, 515, 394-397.	13.7	152
25	A local ensemble transform Kalman filter data assimilation system for the NCEP global model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 60, 113-130.	0.8	146
26	On the use of nonuniform grids in finite-difference equations. <i>Journal of Computational Physics</i> , 1972, 10, 202-210.	1.9	141
27	Four-dimensional ensemble Kalman filtering. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 273-277.	0.8	129
28	Climate model shows large-scale wind and solar farms in the Sahara increase rain and vegetation. <i>Science</i> , 2018, 361, 1019-1022.	6.0	119
29	Variable localization in an ensemble Kalman filter: Application to the carbon cycle data assimilation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	116
30	Observational evidence of sensitivity of surface climate changes to land types and urbanization. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	112
31	Potential and Actual impacts of deforestation and afforestation on land surface temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,372.	1.2	112
32	Error growth and predictability in operational ECMWF forecasts. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1987, 39A, 474-491.	0.8	105
33	Random Error Growth in NMC's Global Forecasts. <i>Monthly Weather Review</i> , 1994, 122, 1281-1305.	0.5	100
34	Modeling Sustainability: Population, Inequality, Consumption, and Bidirectional Coupling of the Earth and Human Systems. <i>National Science Review</i> , 2016, 3, nww081.	4.6	96
35	A Synoptic Evaluation of the NCEP Ensemble. <i>Weather and Forecasting</i> , 1997, 12, 140-153.	0.5	94
36	Forecasting Forecast Skill. <i>Monthly Weather Review</i> , 1987, 115, 349-356.	0.5	91

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37	A review of global gas flaring and venting and impact on the environment: Case study of Iran. <i>International Journal of Greenhouse Gas Control</i> , 2016, 49, 488-509.	2.3	90
38	Maturity of Operational Numerical Weather Prediction: Medium Range. <i>Bulletin of the American Meteorological Society</i> , 1998, 79, 2753-2769.	1.7	89
39	A Stochastic-Dynamic Model for the Spatial Structure of Forecast Error Statistics. <i>Monthly Weather Review</i> , 1983, 111, 701-722.	0.5	83
40	Four-dimensional ensemble Kalman filtering. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 56, 273.	0.8	83
41	Estimating observation impact without adjoint model in an ensemble Kalman filter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1327-1335.	1.0	83
42	Assimilating atmospheric observations into the ocean using strongly coupled ensemble data assimilation. <i>Geophysical Research Letters</i> , 2016, 43, 752-759.	1.5	83
43	Estimating and Correcting Global Weather Model Error. <i>Monthly Weather Review</i> , 2007, 135, 281-299.	0.5	82
44	Error growth and predictability in operational ECMWF forecasts. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1987, 39, 474-491.	0.8	79
45	Use of the breeding technique to estimate the structure of the analysis "errors of the day". <i>Nonlinear Processes in Geophysics</i> , 2003, 10, 233-243.	0.6	79
46	Accelerating the spin-up of Ensemble Kalman Filtering. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1644-1651.	1.0	79
47	Dynamical Extended Range Forecasting (DERF) at the National Meteorological Center. <i>Monthly Weather Review</i> , 1989, 117, 1604-1635.	0.5	76
48	Estimation of the impact of land-surface forcings on temperature trends in eastern United States. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	75
49	Local ensemble Kalman filtering in the presence of model bias. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2006, 58, 293-306.	0.8	75
50	Data Assimilation as Synchronization of Truth and Model: Experiments with the Three-Variable Lorenz System*. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2340-2354.	0.6	72
51	Bred Vectors of the Zebiak "Cane Model and Their Potential Application to ENSO Predictions. <i>Journal of Climate</i> , 2003, 16, 40-56.	1.2	72
52	Separating fast and slow modes in coupled chaotic systems. <i>Nonlinear Processes in Geophysics</i> , 2004, 11, 319-327.	0.6	71
53	Accounting for Model Errors in Ensemble Data Assimilation. <i>Monthly Weather Review</i> , 2009, 137, 3407-3419.	0.5	68
54	Large-Amplitude, Short-Scale Stationary Rossby Waves in the Southern Hemisphere: Observations and Mechanistic Experiments to Determine their Origin. <i>Journals of the Atmospheric Sciences</i> , 1986, 43, 252-275.	0.6	66

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55	Impact of land use and precipitation changes on surface temperature trends in Argentina. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	66
56	Effective assimilation of global precipitation: simulation experiments. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 19915.	0.8	66
57	Sensitivity of Forecast Errors to Initial Conditions with a Quasi-Inverse Linear Method. <i>Monthly Weather Review</i> , 1997, 125, 2479-2503.	0.5	65
58	Changes in Global Monsoon Circulations Since 1950. <i>Natural Hazards</i> , 2003, 29, 229-254.	1.6	65
59	Medium Range Lagged Average Forecasts. <i>Monthly Weather Review</i> , 1988, 116, 402-416.	0.5	64
60	A Hybrid Global Ocean Data Assimilation System at NCEP. <i>Monthly Weather Review</i> , 2015, 143, 4660-4677.	0.5	64
61	A simpler formulation of forecast sensitivity to observations: application to ensemble Kalman filters. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 64, 18462.	0.8	60
62	The role of spatial scale and background climate in the latitudinal temperature response to deforestation. <i>Earth System Dynamics</i> , 2016, 7, 167-181.	2.7	60
63	An Assessment of the FGGE Satellite Observing System during SOP-1. <i>Bulletin of the American Meteorological Society</i> , 1982, 63, 407-426.	1.7	59
64	A comparison of Lyapunov and optimal vectors in a low-resolution GCM. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1997, 49, 200-227.	0.8	58
65	Ensemble Kalman filter data assimilation of Thermal Emission Spectrometer temperature retrievals into a Mars GCM. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	57
66	Weight interpolation for efficient data assimilation with the Local Ensemble Transform Kalman Filter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 251-262.	1.0	56
67	Impact of Satellite Data an the CDAS-Reanalysis System. <i>Monthly Weather Review</i> , 1995, 123, 124-139.	0.5	55
68	Estimation of surface carbon fluxes with an advanced data assimilation methodology. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	55
69	Time Schemes for Strongly Nonlinear Damping Equations. <i>Monthly Weather Review</i> , 1988, 116, 1945-1958.	0.5	54
70	Ensemble-based observation impact estimates using the NCEP GFS. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 20038.	0.8	54
71	Estimating and including observation-error correlations in data assimilation. <i>Inverse Problems in Science and Engineering</i> , 2013, 21, 387-398.	1.2	52
72	Comparison of Local Ensemble Transform Kalman Filter, 3DVAR, and 4DVAR in a Quasigeostrophic Model. <i>Monthly Weather Review</i> , 2009, 137, 693-709.	0.5	51

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73	Assimilation of TRMM Multisatellite Precipitation Analysis with a Low-Resolution NCEP Global Forecast System. <i>Monthly Weather Review</i> , 2016, 144, 643-661.	0.5	51
74	Assessing a local ensemble Kalman filter: perfect model experiments with the National Centers for Environmental Prediction global model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2005, 57, 528-545.	0.8	50
75	Handling Nonlinearity in an Ensemble Kalman Filter: Experiments with the Three-Variable Lorenz Model. <i>Monthly Weather Review</i> , 2012, 140, 2628-2646.	0.5	50
76	A further assessment of vegetation feedback on decadal Sahel rainfall variability. <i>Climate Dynamics</i> , 2013, 40, 1453-1466.	1.7	50
77	RISE: Undergraduates Find That Regime Changes in Lorenz's Model are Predictable. <i>Bulletin of the American Meteorological Society</i> , 2004, 85, 520-524.	1.7	48
78	Assessing a local ensemble Kalman filter: perfect model experiments with the National Centers for Environmental Prediction global model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2005, 57, 528-545.	0.8	48
79	Impact of Vegetation Types on Surface Temperature Change. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 411-424.	0.6	48
80	Targeting observations with the quasi-inverse linear and adjoint NCEP global models: Performance during FASTEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 3329-3337.	1.0	46
81	Observation bias correction with an ensemble Kalman filter. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 61, 210.	0.8	46
82	The 1998 Oklahoma-Texas Drought: Mechanistic Experiments with NCEP Global and Regional Models. <i>Journal of Climate</i> , 2002, 15, 945-963.	1.2	45
83	Three Years of Operational Prediction of Forecast Skill at NMC. <i>Monthly Weather Review</i> , 1995, 123, 2132-2148.	0.5	43
84	ENSO Bred Vectors in Coupled Ocean-Atmosphere General Circulation Models. <i>Journal of Climate</i> , 2006, 19, 1422-1436.	1.2	43
85	Application of the Quasi-Inverse Method to Data Assimilation. <i>Monthly Weather Review</i> , 2000, 128, 864-875.	0.5	42
86	Summary of the NMC/NCAR Reanalysis Workshop of April 1991. <i>Bulletin of the American Meteorological Society</i> , 1991, 72, 1897-1904.	1.7	41
87	A New Method of Observed Rainfall Assimilation in Forecast Models. <i>Journal of Applied Meteorology and Climatology</i> , 2000, 39, 1282-1298.	1.7	39
88	50th Anniversary of Operational Numerical Weather Prediction. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 639-650.	1.7	39
89	West African monsoon decadal variability and surface-related forcings: second West African Monsoon Modeling and Evaluation Project Experiment (WAMME II). <i>Climate Dynamics</i> , 2016, 47, 3517-3545.	1.7	39
90	Incremental Nonlinear Normal-Mode Initialization. <i>Monthly Weather Review</i> , 1992, 120, 1723-1734.	0.5	38

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91	Assimilating the global satellite mapping of precipitation data with the Nonhydrostatic Icosahedral Atmospheric Model (NICAM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 631-650.	1.2	37
92	A GCM Study of the 1988 United States Drought. <i>Monthly Weather Review</i> , 1991, 119, 1512-1532.	0.5	36
93	MOS, Perfect Prog, and Reanalysis. <i>Monthly Weather Review</i> , 2006, 134, 657-663.	0.5	36
94	Statistical Properties of Global Precipitation in the NCEP GFS Model and TMPA Observations for Data Assimilation. <i>Monthly Weather Review</i> , 2016, 144, 663-679.	0.5	35
95	CO ₂ transport uncertainties from the uncertainties in meteorological fields. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	34
96	An ensemble Kalman filter data assimilation system for the martian atmosphere: Implementation and simulation experiments. <i>Icarus</i> , 2010, 209, 470-481.	1.1	33
97	Large-scale analysis and forecast experiments with wind data from the Seasat A scatterometer. <i>Journal of Geophysical Research</i> , 1984, 89, 4927-4936.	3.3	31
98	Statistics of locally coupled ocean and atmosphere intraseasonal anomalies in Reanalysis and AMIP data. <i>Nonlinear Processes in Geophysics</i> , 2003, 10, 245-251.	0.6	31
99	Application of Coupled Bred Vectors to Seasonal-to-Interannual Forecasting and Ocean Data Assimilation. <i>Journal of Climate</i> , 2009, 22, 2850-2870.	1.2	31
100	Inconsistent estimates of forest cover change in China between 2000 and 2013 from multiple datasets: differences in parameters, spatial resolution, and definitions. <i>Scientific Reports</i> , 2017, 7, 8748.	1.6	31
101	Can Reanalysis Have Anthropogenic Climate Trends without Model Forcing?. <i>Journal of Climate</i> , 2005, 18, 1844-1849.	1.2	29
102	Neural machine-based forecasting of chaotic dynamics. <i>Nonlinear Dynamics</i> , 2019, 98, 2903-2917.	2.7	29
103	The Ensemble Mars Atmosphere Reanalysis System (EMARS) Version 1.0. <i>Geoscience Data Journal</i> , 2019, 6, 137-150.	1.8	29
104	A Model to Determine Open or Closed Cellular Convection. <i>Journals of the Atmospheric Sciences</i> , 1983, 40, 631-650.	0.6	28
105	Impact Of Satellite Temperature Sounding And Wind Data On Numerical Weather Prediction. <i>Optical Engineering</i> , 1985, 24, 2423-41.	0.5	28
106	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
107	Using Singular Value Decomposition to Parameterize State-Dependent Model Errors. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1467-1478.	0.6	28
108	Estimating the Impact of Real Observations in Regional Numerical Weather Prediction Using an Ensemble Kalman Filter. <i>Monthly Weather Review</i> , 2012, 140, 1975-1987.	0.5	28

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109	Impact of land-use change on climate. <i>Nature</i> , 2004, 427, 214-214.	13.7	27
110	Analysis sensitivity calculation in an ensemble Kalman filter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 1842-1851.	1.0	27
111	The Challenge of Atmospheric Data Assimilation on Mars. <i>Earth and Space Science</i> , 2017, 4, 690-722.	1.1	27
112	The local ensemble transform Kalman filter and the running-in-place algorithm applied to a global ocean general circulation model. <i>Nonlinear Processes in Geophysics</i> , 2013, 20, 1031-1046.	0.6	27
113	Evaluation of a Strategy for the Assimilation of Satellite Radiance Observations with the Local Ensemble Transform Kalman Filter. <i>Monthly Weather Review</i> , 2011, 139, 1932-1951.	0.5	26
114	Simultaneous assimilation of AIRS Xco ₂ and meteorological observations in a carbon climate model with an ensemble Kalman filter. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26
115	Lyapunov, singular and bred vectors in a multi-scale system: an empirical exploration of vectors related to instabilities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 254021.	0.7	26
116	Role of CO ₂ , climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. <i>Biogeosciences</i> , 2016, 13, 5121-5137.	1.3	26
117	A GCM Study on the Maintenance of the June 1982 Blocking in the Southern Hemisphere. <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 1123-1142.	0.6	25
118	Forecast sensitivity with dropwindsonde data and targeted observations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 50, 391.	0.8	25
119	The Effects of the RAW Filter on the Climatology and Forecast Skill of the SPEEDY Model. <i>Monthly Weather Review</i> , 2011, 139, 608-619.	0.5	25
120	The Use of Bred Vectors in the NCEP Global 3D Variational Analysis System. <i>Weather and Forecasting</i> , 1997, 12, 689-695.	0.5	24
121	Convex Error Growth Patterns in a Global Weather Model. <i>Physical Review Letters</i> , 2005, 94, 228501.	2.9	24
122	Accelerating the EnKF Spinup for Typhoon Assimilation and Prediction. <i>Weather and Forecasting</i> , 2012, 27, 878-897.	0.5	24
123	Rules for Interchange of Physical Parameterizations. <i>Bulletin of the American Meteorological Society</i> , 1989, 70, 620-622.	1.7	22
124	Comments on: "Notes on the appropriateness of bred modes" for generating initial perturbations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1999, 51, 442-449.	0.8	22
125	Data assimilation in a system with two scales" combining two initialization techniques. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 61, 539.	0.8	22
126	Bred Vectors and Tropical Pacific Forecast Errors in the NASA Coupled General Circulation Model. <i>Monthly Weather Review</i> , 2008, 136, 1305-1326.	0.5	22

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127	Identifying Martian atmospheric instabilities and their physical origins using bred vectors. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 639-653.	1.0	22
128	Ensemble transform Kalman–Bucy filters. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 995-1004.	1.0	22
129	Proactive QC: A Fully Flow-Dependent Quality Control Scheme Based on EFSO. Monthly Weather Review, 2017, 145, 3331-3354.	0.5	22
130	Response to the discussion on “4-D-Var or EnKF?” by Nils Gustafsson. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, 59, 778-780.	0.8	21
131	Causality Analysis: Identifying the Leading Element in a Coupled Dynamical System. PLoS ONE, 2015, 10, e0131226.	1.1	19
132	Local Atmosphere–Ocean Predictability: Dynamical Origins, Lead Times, and Seasonality. Journal of Climate, 2019, 32, 7507-7519.	1.2	19
133	Assessing Predictability with a Local Ensemble Kalman Filter. Journals of the Atmospheric Sciences, 2007, 64, 1116-1140.	0.6	18
134	Correction of “Estimating observation impact without adjoint model in an ensemble Kalman filter”. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1652-1654.	1.0	18
135	S4: An O2R/R2O Infrastructure for Optimizing Satellite Data Utilization in NOAA Numerical Modeling Systems: A Step Toward Bridging the Gap between Research and Operations. Bulletin of the American Meteorological Society, 2016, 97, 2359-2378.	1.7	18
136	An implementation of the Local Ensemble Kalman Filter in a quasi geostrophic model and comparison with 3D-Var. Nonlinear Processes in Geophysics, 2007, 14, 89-101.	0.6	17
137	Impact of online empirical model correction on nonlinear error growth. Geophysical Research Letters, 2008, 35, .	1.5	17
138	Historical perspective: earlier ensembles and forecasting forecast skill. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 25-34.	1.0	17
139	Use of breeding to detect and explain instabilities in the global ocean. Geophysical Research Letters, 2009, 36, .	1.5	16
140	Improving the spin-up of regional EnKF for typhoon assimilation and forecasting with Typhoon Sinlaku (2008). Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 65, 20804.	0.8	16
141	Application of the WRF-LETKF Data Assimilation System over Southern South America: Sensitivity to Model Physics. Weather and Forecasting, 2016, 31, 217-236.	0.5	16
142	Impact of Sea Surface Temperature Anomalies on the Skill of Monthly Forecasts. Monthly Weather Review, 1991, 119, 2771-2793.	0.5	15
143	A comparison of Lyapunov and optimal vectors in a low-resolution GCM. Tellus, Series A: Dynamic Meteorology and Oceanography, 1997, 49, 200-227.	0.8	15
144	Ensemble forecasting and data assimilation: two problems with the same solution?. , 2006, , 157-180.		14

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145	Comparison between Local Ensemble Transform Kalman Filter and PSAS in the NASA finite volume GCM “perfect model experiments. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 645-659.	0.6	14
146	Comparison of Methods Used to Generate Probabilistic Quantitative Precipitation Forecasts over South America. <i>Weather and Forecasting</i> , 2009, 24, 319-336.	0.5	14
147	The pre-Argo ocean reanalyses may be seriously affected by the spatial coverage of moored buoys. <i>Scientific Reports</i> , 2017, 7, 46685.	1.6	14
148	Estimation of Systematic Errors in the GFS Using Analysis Increments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1626-1637.	1.2	14
149	Correlation-Cutoff Method for Covariance Localization in Strongly Coupled Data Assimilation. <i>Monthly Weather Review</i> , 2018, 146, 2881-2889.	0.5	14
150	Estimating surface carbon fluxes based on a local ensemble transform Kalman filter with a short assimilation window and a long observation window: an observing system simulation experiment test in GEOS-Chem 10.1. <i>Geoscientific Model Development</i> , 2019, 12, 2899-2914.	1.3	14
151	Numerical Weather Prediction Basics: Models, Numerical Methods, and Data Assimilation. , 2019, , 67-97.		14
152	Ensemble Kalman Filter: Current Status and Potential. , 2010, , 69-92.		14
153	Using forecast sensitivity patterns to improve future forecast skill. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 1035-1053.	1.0	12
154	Sustainable prosperity and societal transitions: Long-term modeling for anticipatory management. <i>Environmental Innovation and Societal Transitions</i> , 2011, 1, 160-165.	2.5	12
155	Ensemble singular vectors and their use as additive inflation in EnKF. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 26536.	0.8	12
156	Accelerating assimilation development for new observing systems using EFSO. <i>Nonlinear Processes in Geophysics</i> , 2018, 25, 129-143.	0.6	11
157	Dynamical prediction of terrestrial ecosystems and the global carbon cycle: A 25-year hindcast experiment. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	10
158	Impact of assimilation window length on diurnal features in a Mars atmospheric analysis. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 26042.	0.8	10
159	EFSR: Ensemble Forecast Sensitivity to Observation Error Covariance. <i>Monthly Weather Review</i> , 2017, 145, 5015-5031.	0.5	10
160	Proactive Quality Control: Observing System Simulation Experiments with the Lorenz “96 Model. <i>Monthly Weather Review</i> , 2019, 147, 53-67.	0.5	10
161	The USWRP Workshop on the Weather Research Needs of the Private Sector. <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 934-934.	1.7	10
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