Kayo Ide

List of Publications by Year
in descending order

40 papers	3,673 citations	430442 18 h-index	344852 36 g-index
40 all docs	40 docs citations	40 times ranked	3825 citing authors

#	Article	IF	Citations
1	Advanced spectral methods for climatic time series. Reviews of Geophysics, 2002, 40, 3-1.	9.0	1,695
2	Unified Notation for Data Assimilation : Operational, Sequential and Variational (gtSpecial IssueltData) Tj ETQq0 0 0 rgBT /Overlock 10 T Society of Japan, 1997, 75, 181-189.	0.7	701
3	An OSSE-Based Evaluation of Hybrid Variational–Ensemble Data Assimilation for the NCEP GFS. Part II: 4DEnVar and Hybrid Variants. Monthly Weather Review, 2015, 143, 452-470.	0.5	135
4	Measures of unobservability. , 2009, , .		131
5	An OSSE-Based Evaluation of Hybrid Variational–Ensemble Data Assimilation for the NCEP GFS. Part I: System Description and 3D-Hybrid Results. Monthly Weather Review, 2015, 143, 433-451.	0.5	131
6	A Method for Assimilation of Lagrangian Data. Monthly Weather Review, 2003, 131, 2247-2260.	0.5	105
7	A Three-Dimensional Variational Data Assimilation Scheme for the Regional Ocean Modeling System. Journal of Atmospheric and Oceanic Technology, 2008, 25, 2074-2090.	0.5	83
8	A Multiscale Variational Data Assimilation Scheme: Formulation and Illustration. Monthly Weather Review, 2015, 143, 3804-3822.	0.5	71
9	A Method for Assimilating Lagrangian Data into a Shallow-Water-Equation Ocean Model. Monthly Weather Review, 2006, 134, 1081-1101.	0.5	65
10	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.	0.7	60
11	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.	0.7	59
12	Lagrangian data assimilation for point vortex systems. Journal of Turbulence, 2002, 3, N53.	0.5	50
13	A three‐dimensional variational data assimilation scheme for the Regional Ocean Modeling System: Implementation and basic experiments. Journal of Geophysical Research, 2008, 113, .	3.3	42
14	Using flow geometry for drifter deployment in Lagrangian data assimilation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 60, 321.	0.8	37
15	Experimental and numerical studies of an eastward jet over topography. Journal of Fluid Mechanics, 2001, 438, 129-157.	1.4	32
16	Assessment of the Impact of FORMOSAT‐7/COSMIC‐2 GNSS RO Observations on Midlatitude and Low‐Latitude Ionosphere Specification: Observing System Simulation Experiments Using Ensemble Square Root Filter. Journal of Geophysical Research: Space Physics, 2018, 123, 2296-2314.	0.8	32
17	Extended Kalman filtering for vortex systems. Part II: Rankine vortices and observing-system design. Dynamics of Atmospheres and Oceans, 1998, 27, 333-350.	0.7	31
18	The Kalman–Lévy filter. Physica D: Nonlinear Phenomena, 2001, 151, 142-174.	1.3	23

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19	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Description and Usage. Journal of Atmospheric and Oceanic Technology, 2016, 33, 1759-1777.	0.5	22
20	Optimization and impact assessment of Aeolus <scp>HLOS</scp> wind assimilation in <scp>NOAA</scp>'s global forecast system. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 2703-2716.	1.0	20
21	Spatio–temporal variability in a mid–latitude ocean basin subject to periodic wind forcing. Atmosphere - Ocean, 2007, 45, 227-250.	0.6	17
22	Atmospheric radiative equilibria in a simple column model. Climate Dynamics, 1997, 13, 429-440.	1.7	16
23	Data assimilation with an extended Kalman filter for impact-produced shock-wave dynamics. Journal of Computational Physics, 2004, 196, 705-723.	1.9	13
24	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Perfect Observations Simulation Validation. Journal of Atmospheric and Oceanic Technology, 2018, 35, 207-226.	0.5	12
25	Atmospheric radiative equilibria. Part II: bimodal solutions for atmospheric optical properties. Climate Dynamics, 2001, 18, 29-49.	1.7	11
26	Models of solar irradiance variability and the instrumental temperature record. Geophysical Research Letters, 1999, 26, 1449-1452.	1.5	10
27	Capturing eddy shedding in the Gulf of Mexico from Lagrangian observations. Physica D: Nonlinear Phenomena, 2011, 240, 166-179.	1.3	10
28	Progress in Forecast Skill at Three Leading Global Operational NWP Centers during 2015–17 as Seen in Summary Assessment Metrics (SAMs). Weather and Forecasting, 2018, 33, 1661-1679.	0.5	9
29	A General Strategy for Physics-Based Model Validation Illustrated with Earthquake Phenomenology, Atmospheric Radiative Transfer, and Computational Fluid Dynamics. Lecture Notes in Computational Science and Engineering, 2008, , 19-73.	0.1	9
30	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Assessment and Validation of the OSSE System Using an OSSE–OSE Intercomparison of Summary Assessment Metrics. Journal of Atmospheric and Oceanic Technology, 2018, 35, 2061-2078.	0.5	7
31	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.	1.9	6
32	Touring invariant-set boundaries of a two-vortex system using streamline control. , 2015, , .		6
33	Incorporating prior knowledge in observability-based path planning for ocean sampling. Systems and Control Letters, 2016, 97, 169-175.	1.3	5
34	Exploiting Aeolus level-2b winds to better characterize atmospheric motion vector bias and uncertainty. Atmospheric Measurement Techniques, 2022, 15, 2719-2743.	1.2	5
35	A collocation study of atmospheric motion vectors (AMVs) compared to Aeolus wind profiles with a feature track correction (FTC) observation operator. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 321-337.	1.0	4
36	Assessment of the CubeSat Infrared Atmospheric Sounder impact on global numerical weather prediction using observational system simulation experiments. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	3

#	Article	IF	Citations
37	Non-Gaussian estimation of a two-vortex flow using a Lagrangian sensor guided by output feedback control. , 2016, , .		2
38	Global analysis and forecast impact assessment of CubeSat MicroMAS-2 on numerical weather prediction. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	2
39	A preliminary assessment of the value and impact of multiple configurations of constellations of EON-MW, a proposed 12U microwave sounder CubeSat for global NWP. Tellus, Series A: Dynamic Meteorology and Oceanography, 2021, 73, 1-26.	0.8	1
40	Non-Gaussian Estimation of a Potential Flow by an Actuated Lagrangian Sensor Steered to Separating Boundaries by Augmented Observability. IEEE Journal of Oceanic Engineering, 2020, 45, 1203-1218.	2.1	0