Kayo Ide

List of Publications by Citations

39 papers	2,980 citations	18 h-index	40 g-index
40 ext. papers	3,285 ext. citations	3.3 avg, IF	4.75 L-index

#	Paper	IF	Citations
39	ADVANCED SPECTRAL METHODS FOR CLIMATIC TIME SERIES. *Reviews of Geophysics*, **2002**, 40, 3-1	23.1	1401
38	Unified Notation for Data Assimilation : Operational, Sequential and Variational (gtSpecial IssueltData Assimilation in Meteology and Oceanography: Theory and Practice). *Journal of the Meteorological Society of Japan*, **1997**, 75, 181-189	2.8	579
37	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	2.4	98
36	A Method for Assimilation of Lagrangian Data. *Monthly Weather Review*, **2003**, 131, 2247-2260	2.4	98
35	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	2.4	97
34	Measures of unobservability **2009**,		82
33	A Three-Dimensional Variational Data Assimilation Scheme for the Regional Ocean Modeling System. *Journal of Atmospheric and Oceanic Technology*, **2008**, 25, 2074-2090	2	70
32	A Method for Assimilating Lagrangian Data into a Shallow-Water-Equation Ocean Model. *Monthly Weather Review*, **2006**, 134, 1081-1101	2.4	57
31	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	2.4	55
30	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	2.4	55
29	A Multiscale Variational Data Assimilation Scheme: Formulation and Illustration. *Monthly Weather Review*, **2015**, 143, 3804-3822	2.4	51
28	Lagrangian data assimilation for point vortex systems. *Journal of Turbulence*, **2002**, 3, N53	2.1	42
27	A three-dimensional variational data assimilation scheme for the Regional Ocean Modeling System: Implementation and basic experiments. *Journal of Geophysical Research*, **2008**, 113,		35
26	Extended Kalman filtering for vortex systems. Part II: Rankine vortices and observing-system design. *Dynamics of Atmospheres and Oceans*, **1998**, 27, 333-350	1.9	30
25	Using flow geometry for drifter deployment in Lagrangian data assimilation. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2008**, 60, 321-335	2	30
24	Experimental and numerical studies of an eastward jet over topography. *Journal of Fluid Mechanics*, **2001**, 438, 129-157	3.7	27
23	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	2.6	24

22	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Description and Usage. *Journal of Atmospheric and Oceanic Technology*, **2016**, 33, 1759-1777	2	19
21	The Kalman□□y filter. *Physica D: Nonlinear Phenomena*, **2001**, 151, 142-174	3.3	17
20	Spatio-temporal variability in a mid-latitude ocean basin subject to periodic wind forcing. *Atmosphere - Ocean*, **2007**, 45, 227-250	1.5	16
19	Atmospheric radiative equilibria in a simple column model. *Climate Dynamics*, **1997**, 13, 429-440	4.2	13
18	Atmospheric radiative equilibria. Part II: bimodal solutions for atmospheric optical properties. *Climate Dynamics*, **2001**, 18, 29-49	4.2	10
17	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Perfect Observations Simulation Validation. *Journal of Atmospheric and Oceanic Technology*, **2018**, 35, 207-226	2	9
16	Models of solar irradiance variability and the instrumental temperature record. *Geophysical Research Letters*, **1999**, 26, 1449-1452	4.9	9
15	Capturing eddy shedding in the Gulf of Mexico from Lagrangian observations. *Physica D: Nonlinear Phenomena*, **2011**, 240, 166-179	3.3	8
14	Data assimilation with an extended Kalman filter for impact-produced shock-wave dynamics. *Journal of Computational Physics*, **2004**, 196, 705-723	4.1	8
13	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	0.3	6
12	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	2	6
11	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	2.1	6
10	**2015**,		5
9	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	4.1	5
8	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	1.4	3
7	Incorporating prior knowledge in observability-based path planning for ocean sampling. *Systems and Control Letters*, **2016**, 97, 169-175	2.4	2
6	Global analysis and forecast impact assessment of CubeSat MicroMAS-2 on numerical weather prediction. *Journal of Applied Remote Sensing*, **2019**, 13, 1	1.4	2
5	Non-Gaussian estimation of a two-vortex flow using a Lagrangian sensor guided by output feedback control **2016**,		2

4	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*,	6.4	1
3	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	2	1
2	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	3.3	
1	Exploiting Aeolus level-2b winds to better characterize atmospheric motion vector bias and uncertainty. *Atmospheric Measurement Techniques*, **2022**, 15, 2719-2743	4	