

# Kayo Ide

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Exploiting Aeolus level-2b winds to better characterize atmospheric motion vector bias and uncertainty. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 2719-2743  | 4   |           |
| 38 | 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. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , <b>2021</b> , 73, 1-26                                       | 2   | 1         |
| 37 | Non-Gaussian Estimation of a Potential Flow by an Actuated Lagrangian Sensor Steered to Separating Boundaries by Augmented Observability. <i>IEEE Journal of Oceanic Engineering</i> , <b>2020</b> , 45, 1203-1218   | 3.3 | 18        |
| 36 | Assessment of the CubeSat Infrared Atmospheric Sounder impact on global numerical weather prediction using observational system simulation experiments. <i>Journal of Applied Remote Sensing</i> , <b>2019</b> , 13, 1   | 1.4 | 3         |
| 35 | Global analysis and forecast impact assessment of CubeSat MicroMAS-2 on numerical weather prediction. <i>Journal of Applied Remote Sensing</i> , <b>2019</b> , 13, 1   | 1.4 | 2         |
| 34 | Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Perfect Observations Simulation Validation. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2018</b> , 35, 207-226  | 2   | 9         |
| 33 | Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Assessment and Validation of the OSSE System Using an OSSE/ENSE Intercomparison of Summary Assessment Metrics. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2018</b> , 35, 2061-2078               | 2   | 6         |
| 32 | Progress in Forecast Skill at Three Leading Global Operational NWP Centers during 2015-17 as Seen in Summary Assessment Metrics (SAMs). <i>Weather and Forecasting</i> , <b>2018</b> , 33, 1661-1679   | 2.1 | 6         |
| 31 | 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. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2296-2314 | 2.6 | 24        |
| 30 | Incorporating prior knowledge in observability-based path planning for ocean sampling. <i>Systems and Control Letters</i> , <b>2016</b> , 97, 169-175  | 2.4 | 2         |
| 29 | Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Description and Usage. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2016</b> , 33, 1759-1777   | 2   | 19        |
| 28 | Non-Gaussian estimation of a two-vortex flow using a Lagrangian sensor guided by output feedback control <b>2016</b> ,   |     | 2         |
| 27 | An OSSE-Based Evaluation of Hybrid Variational Ensemble Data Assimilation for the NCEP GFS. Part I: System Description and 3D-Hybrid Results. <i>Monthly Weather Review</i> , <b>2015</b> , 143, 433-451   | 2.4 | 98        |
| 26 | An OSSE-Based Evaluation of Hybrid Variational Ensemble Data Assimilation for the NCEP GFS. Part II: 4D-EnVar and Hybrid Variants. <i>Monthly Weather Review</i> , <b>2015</b> , 143, 452-470  | 2.4 | 97        |
| 25 | <b>2015</b> ,  |     | 5         |
| 24 | A Multiscale Variational Data Assimilation Scheme: Formulation and Illustration. <i>Monthly Weather Review</i> , <b>2015</b> , 143, 3804-3822  | 2.4 | 51        |
| 23 | Capturing eddy shedding in the Gulf of Mexico from Lagrangian observations. <i>Physica D: Nonlinear Phenomena</i> , <b>2011</b> , 240, 166-179   | 3.3 | 8         |

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| 22 | Measures of unobservability <b>2009</b> ,  |      | 82   |
| 21 | A three-dimensional variational data assimilation scheme for the Regional Ocean Modeling System: Implementation and basic experiments. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,   |      | 35   |
| 20 | A Three-Dimensional Variational Data Assimilation Scheme for the Regional Ocean Modeling System. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2008</b> , 25, 2074-2090  | 2    | 70   |
| 19 | Using flow geometry for drifter deployment in Lagrangian data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , <b>2008</b> , 60, 321-335  | 2    | 30   |
| 18 | A General Strategy for Physics-Based Model Validation Illustrated with Earthquake Phenomenology, Atmospheric Radiative Transfer, and Computational Fluid Dynamics. <i>Lecture Notes in Computational Science and Engineering</i> , <b>2008</b> , 19-73 | 0.3  | 6    |
| 17 | Spatio-temporal variability in a mid-latitude ocean basin subject to periodic wind forcing. <i>Atmosphere - Ocean</i> , <b>2007</b> , 45, 227-250  | 1.5  | 16   |
| 16 | A Method for Assimilating Lagrangian Data into a Shallow-Water-Equation Ocean Model. <i>Monthly Weather Review</i> , <b>2006</b> , 134, 1081-1101  | 2.4  | 57   |
| 15 | Estimating model parameters for an impact-produced shock-wave simulation: Optimal use of partial data with the extended Kalman filter. <i>Journal of Computational Physics</i> , <b>2006</b> , 214, 725-737  | 4.1  | 5    |
| 14 | Data assimilation with an extended Kalman filter for impact-produced shock-wave dynamics. <i>Journal of Computational Physics</i> , <b>2004</b> , 196, 705-723   | 4.1  | 8    |
| 13 | Low-Frequency Variability in Shallow-Water Models of the Wind-Driven Ocean Circulation. Part I: Steady-State Solution*. <i>Journal of Physical Oceanography</i> , <b>2003</b> , 33, 712-728  | 2.4  | 55   |
| 12 | A Method for Assimilation of Lagrangian Data. <i>Monthly Weather Review</i> , <b>2003</b> , 131, 2247-2260   | 2.4  | 98   |
| 11 | Low-Frequency Variability in Shallow-Water Models of the Wind-Driven Ocean Circulation. Part II: Time-Dependent Solutions*. <i>Journal of Physical Oceanography</i> , <b>2003</b> , 33, 729-752  | 2.4  | 55   |
| 10 | Lagrangian data assimilation for point vortex systems. <i>Journal of Turbulence</i> , <b>2002</b> , 3, N53   | 2.1  | 42   |
| 9  | ADVANCED SPECTRAL METHODS FOR CLIMATIC TIME SERIES. <i>Reviews of Geophysics</i> , <b>2002</b> , 40, 3-1   | 23.1 | 1401 |
| 8  | Atmospheric radiative equilibria. Part II: bimodal solutions for atmospheric optical properties. <i>Climate Dynamics</i> , <b>2001</b> , 18, 29-49   | 4.2  | 10   |
| 7  | The Kalman filter. <i>Physica D: Nonlinear Phenomena</i> , <b>2001</b> , 151, 142-174  | 3.3  | 17   |
| 6  | Experimental and numerical studies of an eastward jet over topography. <i>Journal of Fluid Mechanics</i> , <b>2001</b> , 438, 129-157  | 3.7  | 27   |
| 5  | Models of solar irradiance variability and the instrumental temperature record. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 1449-1452  | 4.9  | 9    |

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|---|---|-----|-----|
| 4 | Extended Kalman filtering for vortex systems. Part II: Rankine vortices and observing-system design. <i>Dynamics of Atmospheres and Oceans</i> , <b>1998</b> , 27, 333-350  | 1.9 | 30  |
| 3 | Unified Notation for Data Assimilation : Operational, Sequential and Variational (Special Issue) Data Assimilation in Meteorology and Oceanography: Theory and Practice). <i>Journal of the Meteorological Society of Japan</i> , <b>1997</b> , 75, 181-189 | 2.8 | 579 |
| 2 | Atmospheric radiative equilibria in a simple column model. <i>Climate Dynamics</i> , <b>1997</b> , 13, 429-440  | 4.2 | 13  |
| 1 | A collocation study of atmospheric motion vectors (AMVs) compared to Aeolus wind profiles with a feature track correction (FTC) observation operator. <i>Quarterly Journal of the Royal Meteorological Society</i> ,  | 6.4 | 1   |