Olivier Pannekoucke

List of Publications by Year
in descending order

34	768	687363 13	552781 26
papers	citations	h-index	g-index

53	53	53	883
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parametric Kalman filter for chemical transport models. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 31547.	1.7	17
2	An anisotropic formulation of the parametric Kalman filter assimilation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 73, 1926660.	1.7	5
3	Producing realistic climate data with generative adversarial networks. Nonlinear Processes in Geophysics, 2021, 28, 347-370.	1.3	6
4	Numerical discretization causing error variance loss and the need for inflation. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3498-3520.	2.7	7
5	A methodology to obtain model-error covariances due to the discretization scheme from the parametric Kalman filter perspective. Nonlinear Processes in Geophysics, 2021, 28, 1-22.	1.3	8
6	SymPKF (v1.0): a symbolic and computational toolbox for the design of parametric Kalman filter dynamics. Geoscientific Model Development, 2021, 14, 5957-5976.	3.6	2
7	Learning Variational Data Assimilation Models and Solvers. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002572.	3.8	23
8	PDE-NetGen 1.0: from symbolic partial differential equation (PDE) representations of physical processes to trainable neural network representations. Geoscientific Model Development, 2020, 13, 3373-3382.	3.6	12
9	Parametric covariance dynamics for the nonlinear diffusive Burgers equation. Nonlinear Processes in Geophysics, 2018, 25, 481-495.	1.3	10
10	From the Kalman Filter to the Particle Filter: A Geometrical Perspective of the Curse of Dimensionality. Advances in Meteorology, 2016, 2016, 1-18.	1.6	1
11	Downscaling Meteosat Land Surface Temperature over a Heterogeneous Landscape Using a Data Assimilation Approach. Remote Sensing, 2016, 8, 586.	4.0	7
12	Objectâ€oriented processing of CRM precipitation forecasts by stochastic filtering. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2827-2838.	2.7	8
13	Application of a Bayesian weighting for shortâ€range lagged ensemble forecasting at the convective scale. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 459-468.	2.7	10
14	Genetic particle filter application to land surface temperature downscaling. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2131-2146.	3.3	19
15	A benchmark of statistical regression methods for short-term forecasting of photovoltaic electricity production. Part II: Probabilistic forecast of daily production. Solar Energy, 2014, 105, 804-816.	6.1	87
16	A waveletâ€based filtering of ensemble backgroundâ€error variances. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 316-327.	2.7	5
17	Estimating and diagnosing model error variances in the MÃ©tÃ©oâ€France global <scp>NWP</scp> model. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 846-854.	2.7	7
18	Genetic Particle Smoother thermal sharpener: Methodology and application to pseudo-observations. , 2014, , .		0

#	Article	IF	Citations
19	A benchmark of statistical regression methods for short-term forecasting of photovoltaic electricity production, part I: Deterministic forecast of hourly production. Solar Energy, 2014, 105, 792-803.	6.1	139
20	Modelling of local lengthâ€scale dynamics and isotropizing deformations. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1387-1398.	2.7	13
21	Combined assimilation of IASI and MLS observations to constrain tropospheric and stratospheric ozone in a global chemical transport model. Atmospheric Chemistry and Physics, 2014, 14, 177-198.	4.9	32
22	Sampling properties and spatial filtering of ensemble backgroundâ€error lengthâ€scales. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 784-794.	2.7	9
23	Heterogeneous filtering of ensembleâ€based backgroundâ€error variances. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1589-1598.	2.7	6
24	Adaptation of a particle filtering method for data assimilation in a 1D numerical model used for fog forecasting. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 536-551.	2.7	9
25	Assessing the influence of the model trajectory in the adaptive observation Kalman Filter Sensitivity method. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 813-825.	2.7	2
26	Importance of using ensemble estimated background error covariances for the quality of atmospheric ozone analyses. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 889-905.	2.7	28
27	On the Merits of Using a 3D-FGAT Assimilation Scheme with an Outer Loop for Atmospheric Situations Governed by Transport. Monthly Weather Review, 2010, 138, 4509-4522.	1.4	25
28	Stochastic Integration for the Heterogeneous Correlation Modeling Using a Diffusion Equation. Monthly Weather Review, 2010, 138, 3356-3365.	1.4	1
29	Some Issues and Results on the EnKF and Particle Filters for Meteorological Models. , 2010, , .		3
30	Structure of the transport uncertainty in mesoscale inversions of CO₂ sources and sinks using ensemble model simulations. Biogeosciences, 2009, 6, 1089-1102.	3.3	82
31	Heterogeneous Correlation Modeling Based on the Wavelet Diagonal Assumption and on the Diffusion Operator. Monthly Weather Review, 2009, 137, 2995-3012.	1.4	16
32	Background-error correlation length-scale estimates and their sampling statistics. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 497-508.	2.7	61
33	Estimation of the local diffusion tensor and normalization for heterogeneous correlation modelling using a diffusion equation. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1425-1438.	2.7	48
34	Filtering properties of wavelets for local background-error correlations. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 363-379.	2.7	53