

Jean-Noel Thepaut

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

14,001
citations

279798

23
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

11355
citing authors

#	ARTICLE	IF	CITATIONS
1	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049.	2.7	10,272
2	ERA5-Land: a state-of-the-art global reanalysis dataset for land applications. Earth System Science Data, 2021, 13, 4349-4383.	9.9	1,083
3	ERA-20C: An Atmospheric Reanalysis of the Twentieth Century. Journal of Climate, 2016, 29, 4083-4097.	3.2	807
4	The ERA5 global reanalysis: Preliminary extension to 1950. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4186-4227.	2.7	189
5	An improved general fast radiative transfer model for the assimilation of radiance observations. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 153-173.	2.7	166
6	Assimilation and Modeling of the Atmospheric Hydrological Cycle in the ECMWF Forecasting System. Bulletin of the American Meteorological Society, 2005, 86, 387-402.	3.3	143
7	Extended assimilation and forecast experiments with a four-dimensional variational assimilation system. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 1861-1887.	2.7	127
8	Impact of the Digital Filter as a Weak Constraint in the Preoperational 4DVAR Assimilation System of Météo-France. Monthly Weather Review, 2001, 129, 2089-2102.	1.4	126
9	The ECMWF implementation of three-dimensional variational assimilation (3D-Var). III: Experimental results. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 1831-1860.	2.7	114
10	Dynamical structure functions in a four-dimensional variational assimilation: A case study. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 535-561.	2.7	99
11	Interactions of Dynamics and Observations in a Four-Dimensional Variational Assimilation. Monthly Weather Review, 1993, 121, 3393-3414.	1.4	98
12	Simplified and Regular Physical Parameterizations for Incremental Four-Dimensional Variational Assimilation. Monthly Weather Review, 1999, 127, 26-45.	1.4	95
13	The Spatial Structure of Observation Errors in Atmospheric Motion Vectors from Geostationary Satellite Data. Monthly Weather Review, 2003, 131, 706-718.	1.4	82
14	A Comparison of Variational and Ensemble-Based Data Assimilation Systems for Reanalysis of Sparse Observations. Monthly Weather Review, 2009, 137, 1991-1999.	1.4	69
15	The Role of Satellite Data in the Forecasting of Hurricane Sandy. Monthly Weather Review, 2014, 142, 634-646.	1.4	67
16	The value of observations. I: Data denial experiments for the Atlantic and the Pacific. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 1803-1815.	2.7	66
17	Estimating atmospheric CO ₂ from advanced infrared satellite radiances within an operational 4D-Var data assimilation system: Methodology and first results. Journal of Geophysical Research, 2004, 109, .	3.3	63
18	The information content of clear sky IASI radiances and their potential for numerical weather prediction. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 211-241.	2.7	56

#	ARTICLE	IF	CITATIONS
19	Variational inversion of simulated TOVS radiances using the adjoint technique. Quarterly Journal of the Royal Meteorological Society, 1990, 116, 1425-1448.	2.7	46
20	The Copernicus Programme and its Climate Change Service. , 2018, , .		38
21	Assimilation of Meteosat radiance data within the 4D-Var system at ECMWF: Data quality monitoring, bias correction and single-cycle experiments. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2293-2313.	2.7	36
22	Evaluation of the AIRS near-real-time channel selection for application to numerical weather prediction. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2425-2439.	2.7	35
23	Impact of MODIS Polar Winds in ECMWF's 4DVAR Data Assimilation System. Monthly Weather Review, 2004, 132, 929-940.	1.4	33
24	Combined use of sensitivity information and observations to improve meteorological forecasts: A feasibility study applied to the 'Christmas storm' case. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 621-647.	2.7	26
25	A 4D-Var re-analysis of FASTEX. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 1301-1315.	2.7	22
26	Quasi-continuous variational data assimilation. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 515-534.	2.7	10
27	Artificial Neural Networks to Retrieve Land and Sea Skin Temperature from IASI. Remote Sensing, 2020, 12, 2777.	4.0	10
28	Four-dimensional variational analyses of FASTEX situations using special observations. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 3339-3358.	2.7	9
29	The Global Observing System. , 2010, , 263-281.		9
30	Assimilation of Operational Data. , 2010, , 283-299.		3
31	Assimilation of Remote Sensing Observations in Numerical Weather Prediction. , 2003, , 225-240.		2