

# Patrick Laloyaux

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8525560/publications.pdf>

Version: 2024-02-01

17  
papers

11,787  
citations

687363

13  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

10853  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning to Estimate Model Biases in an Operational NWP Assimilation System. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	6
2	Coupled data assimilation at ECMWF: current status, challenges and future developments. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 2672-2702.	2.7	11
3	Using machine learning to correct model error in data assimilation and forecast applications. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3067-3084.	2.7	49
4	A comparison of combined data assimilation and machine learning methods for offline and online model error correction. Journal of Computational Science, 2021, 55, 101468.	2.9	19
5	Exploring the potential and limitations of weak-constraint 4D-Var. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 4067-4082.	2.7	12
6	Towards an unbiased stratospheric analysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2392-2409.	2.7	23
7	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049.	2.7	10,272
8	Machine Learning for Model Error Inference and Correction. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002232.	3.8	54
9	Observational Needs for Improving Ocean and Coupled Reanalysis, S2S Prediction, and Decadal Prediction. Frontiers in Marine Science, 2019, 6, 391.	2.5	24
10	CERA-20C: A Coupled Reanalysis of the Twentieth Century. Journal of Advances in Modeling Earth Systems, 2018, 10, 1172-1195.	3.8	212
11	Implicit and explicit cross-correlations in coupled data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1851-1863.	2.7	17
12	The EU-FP7 ERA-CLIM2 Project Contribution to Advancing Science and Production of Earth System Climate Reanalyses. Bulletin of the American Meteorological Society, 2018, 99, 1003-1014.	3.3	26
13	A coupled data assimilation system for climate reanalysis. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 65-78.	2.7	145
14	Impact of Scatterometer Surface Wind Data in the ECMWF Coupled Assimilation System. Monthly Weather Review, 2016, 144, 1203-1217.	1.4	33
15	ERA-20C: An Atmospheric Reanalysis of the Twentieth Century. Journal of Climate, 2016, 29, 4083-4097.	3.2	807
16	Origin and Impact of Initialization Shocks in Coupled Atmosphere-Ocean Forecasts*. Monthly Weather Review, 2015, 143, 4631-4644.	1.4	70
17	A reduced and limited-memory preconditioned approach for the 4D-Var data-assimilation problem. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 452-466.	2.7	6