

Patrick Laloyaux

List of Publications by Year in descending order

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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	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049.	2.7	10,272
2	ERA-20C: An Atmospheric Reanalysis of the Twentieth Century. Journal of Climate, 2016, 29, 4083-4097.	3.2	807
3	CERA-20C: A Coupled Reanalysis of the Twentieth Century. Journal of Advances in Modeling Earth Systems, 2018, 10, 1172-1195.	3.8	212
4	A coupled data assimilation system for climate reanalysis. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 65-78.	2.7	145
5	Origin and Impact of Initialization Shocks in Coupled Atmosphere-Ocean Forecasts*. Monthly Weather Review, 2015, 143, 4631-4644.	1.4	70
6	Machine Learning for Model Error Inference and Correction. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002232.	3.8	54
7	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
8	Impact of Scatterometer Surface Wind Data in the ECMWF Coupled Assimilation System. Monthly Weather Review, 2016, 144, 1203-1217.	1.4	33
9	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
10	Observational Needs for Improving Ocean and Coupled Reanalysis, S2S Prediction, and Decadal Prediction. Frontiers in Marine Science, 2019, 6, 391.	2.5	24
11	Towards an unbiased stratospheric analysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2392-2409.	2.7	23
12	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
13	Implicit and explicit cross-correlations in coupled data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1851-1863.	2.7	17
14	Exploring the potential and limitations of weak-constraint 4D-Var. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 4067-4082.	2.7	12
15	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
16	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
17	Deep Learning to Estimate Model Biases in an Operational NWP Assimilation System. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	6