

Martin Leutbecher

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,464
citations

394421

19
h-index

330143

37
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38
all docs

38
docs citations

38
times ranked

2684
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of stochastically perturbed parametrisation tendencies (SPPT) on rapidly ascending air streams. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1242-1261.	2.7	5
2	Understanding changes of the continuous ranked probability score using a homogeneous Gaussian approximation. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 425-442.	2.7	10
3	Forecast verification: Relating deterministic and probabilistic metrics. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3124-3134.	2.7	2
4	Revision of the Stochastically Perturbed Parametrisations model uncertainty scheme in the Integrated Forecasting System. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 1364-1381.	2.7	20
5	More accuracy with less precision. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4358-4370.	2.7	13
6	Predictive verification for the design of partially exchangeable multi-model ensembles. Tellus, Series A: Dynamic Meteorology and Oceanography, 2020, 72, 1-12.	1.7	11
7	On the probabilistic skill of dual-resolution ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 707-723.	2.7	7
8	Impact of the Mesoscale Range on Error Growth and the Limits to Atmospheric Predictability. Journals of the Atmospheric Sciences, 2020, 77, 3769-3779.	1.7	6
9	Ensemble size: How suboptimal is less than infinity?. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 107-128.	2.7	58
10	Statistical postprocessing of dual-resolution ensemble precipitation forecasts across Europe. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3218-3235.	2.7	16
11	Atmospheric Predictability: Revisiting the Inherent Finite-Time Barrier. Journals of the Atmospheric Sciences, 2019, 76, 3883-3892.	1.7	5
12	Treatment of model uncertainty from radiation by the Stochastically Perturbed Parametrization Tendencies (SPPT) scheme and associated revisions in the ECMWF ensembles. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 75-89.	2.7	22
13	The ensemble-adjusted Ignorance Score for forecasts issued as normal distributions. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 129-139.	2.7	12
14	New Methods for Data Storage of Model Output from Ensemble Simulations. Monthly Weather Review, 2019, 147, 677-689.	1.4	1
15	Statistical postprocessing of dual-resolution ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1705-1720.	2.7	5
16	Single Precision in Weather Forecasting Models: An Evaluation with the IFS. Monthly Weather Review, 2017, 145, 495-502.	1.4	75
17	Stochastic representations of model uncertainties at ECMWF: state of the art and future vision. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2315-2339.	2.7	170
18	Towards process-level representation of model uncertainties: stochastically perturbed parametrizations in the ECMWF ensemble. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 408-422.	2.7	89

#	ARTICLE	IF	CITATIONS
19	Observation-based evaluation of ensemble reliability. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 506-514.	2.7	12
20	On the impact of re-centring initial conditions for ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2571-2581.	2.7	25
21	The forecast skill horizon. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 3366-3382.	2.7	109
22	On the reliability of ensemble variance in subspaces defined by singular vectors. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1453-1466.	2.7	24
23	Sensitivity, Structure, and Dynamics of Singular Vectors Associated with Hurricane Helene (2006). Journals of the Atmospheric Sciences, 2012, 69, 675-694.	1.7	17
24	Comparing TIGGE multimodel forecasts with reforecast-calibrated ECMWF ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1814-1827.	2.7	110
25	Sensitivity experiments for ensemble forecasts of the extratropical transition of typhoon Tokage (2004). Quarterly Journal of the Royal Meteorological Society, 2010, 136, 183-200.	2.7	18
26	Scale-dependent verification of ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 973-984.	2.7	34
27	Advances in simulating atmospheric variability with the ECMWF model: From synoptic to decadal time-scales. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1337-1351.	2.7	497
28	TIGGE: Preliminary results on comparing and combining ensembles. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 2029-2050.	2.7	192
29	Potential use of an ensemble of analyses in the ECMWF Ensemble Prediction System. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 2051-2066.	2.7	133
30	Ensemble forecasting. Journal of Computational Physics, 2008, 227, 3515-3539.	3.8	569
31	Comparison between Singular Vectors and Breeding Vectors as Initial Perturbations for the ECMWF Ensemble Prediction System. Monthly Weather Review, 2008, 136, 4092-4104.	1.4	36
32	A Reduced Radiation Grid for the ECMWF Integrated Forecasting System. Monthly Weather Review, 2008, 136, 4760-4772.	1.4	40
33	On the representation of initial uncertainties with multiple sets of singular vectors optimized for different criteria. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 2045-2056.	2.7	9
34	Performance of the ECMWF forecasting system in the Arctic during winter. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 1327-1340.	2.7	45
35	The Impact of Moist Singular Vectors and Horizontal Resolution on Short-Range Limited-Area Ensemble Forecasts for Two European Winter Storms. Monthly Weather Review, 2006, 134, 2877-2887.	1.4	15
36	On Ensemble Prediction Using Singular Vectors Started from Forecasts. Monthly Weather Review, 2005, 133, 3038-3046.	1.4	18

#	ARTICLE	IF	CITATIONS
37	A Reduced Rank Estimate of Forecast Error Variance Changes due to Intermittent Modifications of the Observing Network. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 729-742.	1.7	34