

Peter Bechtold

List of Publications by Year in descending order

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19
papers

12,313
citations

687363

13
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

11017
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	Advances in simulating atmospheric variability with the ECMWF model: From synoptic to decadal timeâ€scales. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1337-1351.	2.7	497
3	Representing Equilibrium and Nonequilibrium Convection in Large-Scale Models. Journals of the Atmospheric Sciences, 2014, 71, 734-753.	1.7	305
4	Entrainment and detrainment in cumulus convection: an overview. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1-19.	2.7	254
5	Why is it so difficult to represent stably stratified conditions in numerical weather prediction (NWP) models?. Journal of Advances in Modeling Earth Systems, 2013, 5, 117-133.	3.8	182
6	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
7	Characteristics of Occasional Poor Medium-Range Weather Forecasts for Europe. Bulletin of the American Meteorological Society, 2013, 94, 1393-1405.	3.3	139
8	Intercomparison and evaluation of cumulus parametrizations under summertime midlatitude continental conditions. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 1095-1135.	2.7	119
9	Improved Middle Atmosphere Climate and Forecasts in the ECMWF Model through a Nonorographic Gravity Wave Drag Parameterization. Journal of Climate, 2010, 23, 5905-5926.	3.2	119
10	A GCS Boundary-Layer Cloud Model Intercomparison Study Of The First Astex Lagrangian Experiment. Boundary-Layer Meteorology, 1999, 93, 341-380.	2.3	92
11	Towards processâ€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
12	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
13	Characteristics of convective precipitation over tropical Africa in stormâ€resolving global simulations. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4388-4407.	2.7	19
14	The coupling of deep convection with the resolved flow via the divergence of mass flux in the IFS. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1832-1845.	2.7	12
15	The Role of Continental Mesoscale Convective Systems in Forecast Busts within Global Weather Prediction Systems. Atmosphere, 2019, 10, 681.	2.3	9
16	Atmospheric Convection. Atmosphere - Ocean, 2022, 60, 422-476.	1.6	7
17	Longâ€term singleâ€column model intercomparison of diurnal cycle of precipitation over midlatitude and tropical land. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 641-669.	2.7	6
18	On the impact of dropsondes on the ECMWF Integrated Forecasting System model (CY47R1) analysis of convection during the OTREC (Organization of Tropical East Pacific Convection) field campaign. Geoscientific Model Development, 2022, 15, 3371-3385.	3.6	2

#	ARTICLE	IF	CITATIONS
19	Convection and Its Impact on Weather. Atmosphere, 2021, 12, 437.	2.3	0