

# Dick Dee

## List of Publications by Citations

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57  
papers

24,933  
citations

33  
h-index

58  
g-index

58  
ext. papers

30,105  
ext. citations

4.9  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
57	The ERA-Interim reanalysis: configuration and performance of the data assimilation system. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2011</b> , 137, 553-597	6.4	17277
56	The ERA5 global reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> , 146, 1999-2049	6.4	3404
55	ERA-20C: An Atmospheric Reanalysis of the Twentieth Century. <i>Journal of Climate</i> , <b>2016</b> , 29, 4083-4097	4.4	630
54	ERA-Interim/Land: a global land surface reanalysis data set. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 389-407	5.5	379
53	Data assimilation in the presence of forecast bias. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>1998</b> , 124, 269-295	6.4	287
52	On-line Estimation of Error Covariance Parameters for Atmospheric Data Assimilation. <i>Monthly Weather Review</i> , <b>1995</b> , 123, 1128-1145	2.4	265
51	Atmospheric conservation properties in ERA-Interim. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2011</b> , 137, 1381-1399	6.4	253
50	Toward a Consistent Reanalysis of the Climate System. <i>Bulletin of the American Meteorological Society</i> , <b>2014</b> , 95, 1235-1248	6.1	153
49	Estimating low-frequency variability and trends in atmospheric temperature using ERA-Interim. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2014</b> , 140, 329-353	6.4	144
48	ERA-20CM: a twentieth-century atmospheric model ensemble. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 2350-2375	6.4	139
47	CERA-20C: A Coupled Reanalysis of the Twentieth Century. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 1172-1195	7.1	129
46	Assimilation of Global Positioning System radio occultation data in the ECMWF ERA-Interim reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2010</b> , 136, 1972-1990	6.4	127
45	A coupled data assimilation system for climate reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2016</b> , 142, 65-78	6.4	123
44	State of the Climate in 2010. <i>Bulletin of the American Meteorological Society</i> , <b>2011</b> , 92, S1-S236	6.1	114
43	Maximum-Likelihood Estimation of Forecast and Observation Error Covariance Parameters. Part I: Methodology. <i>Monthly Weather Review</i> , <b>1999</b> , 127, 1822-1834	2.4	111
42	Concurrent 2018 Hot Extremes Across Northern Hemisphere Due to Human-Induced Climate Change. <i>Earth's Future</i> , <b>2019</b> , 7, 692-703	7.9	101
41	Simplification of the Kalman filter for meteorological data assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>1991</b> , 117, 365-384	6.4	92

40	Data Assimilation in the Presence of Forecast Bias: The GEOS Moisture Analysis. <i>Monthly Weather Review</i> , <b>2000</b> , 128, 3268-3282	2.4	84
39	A reassessment of temperature variations and trends from global reanalyses and monthly surface climatological datasets. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2017</b> , 143, 101-119	6.4	75
38	The Choice of Variable for Atmospheric Moisture Analysis. <i>Monthly Weather Review</i> , <b>2003</b> , 131, 155-171	2.4	73
37	ERA-CLIM: Historical Surface and Upper-Air Data for Future Reanalyses. <i>Bulletin of the American Meteorological Society</i> , <b>2014</b> , 95, 1419-1430	6.1	70
36	Enhanced radiance bias correction in the National Centers for Environmental Prediction's Gridpoint Statistical Interpolation data assimilation system. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2014</b> , 140, 1479-1492	6.4	66
35	Comments on Reanalyses Suitable for Characterizing Long-Term Trends. <i>Bulletin of the American Meteorological Society</i> , <b>2011</b> , 92, 65-70	6.1	65
34	A multivariate treatment of bias for sequential data assimilation: Application to the tropical oceans. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2007</b> , 133, 167-179	6.4	65
33	The relation between atmospheric humidity and temperature trends for stratospheric water. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 1052-1074	4.4	54
32	Observability of Discretized Partial Differential Equations. <i>SIAM Journal on Numerical Analysis</i> , <b>1988</b> , 25, 586-617	2.4	46
31	An efficient algorithm for estimating noise covariances in distributed systems. <i>IEEE Transactions on Automatic Control</i> , <b>1985</b> , 30, 1057-1065	5.9	46
30	Forecast Model Bias Correction in Ocean Data Assimilation. <i>Monthly Weather Review</i> , <b>2005</b> , 133, 1328-1342	2.4	44
29	Boolean Difference Equations, I: Formulation and Dynamic Behavior. <i>SIAM Journal on Applied Mathematics</i> , <b>1984</b> , 44, 111-126	1.8	40
28	An adaptive buddy check for observational quality control. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2001</b> , 127, 2451-2471	6.4	39
27	Improvements in the stratospheric transport achieved by a chemistry transport model with ECMWF (re)analyses: identifying effects and remaining challenges. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2013</b> , 139, 654-673	6.4	37
26	ERA-Interim/Land: a global land water resources dataset		36
25	Maximum-Likelihood Estimation of Forecast and Observation Error Covariance Parameters. Part II: Applications. <i>Monthly Weather Review</i> , <b>1999</b> , 127, 1835-1849	2.4	35
24	Toward a consistent reanalysis of the upper stratosphere based on radiance measurements from SSU and AMSU-A. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2009</b> , 135, 2086-2099	6.4	30
23	Toward an Operational Anthropogenic CO2 Emissions Monitoring and Verification Support Capacity. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E1439-E1451	6.1	29

22	Observations for Reanalyses. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, 1851-1866	6.1	26
21	An analysis of the vertical structure equation for arbitrary thermal profiles. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>1989</b> , 115, 143-171	6.4	25
20	Impact of Scatterometer Surface Wind Data in the ECMWF Coupled Assimilation System. <i>Monthly Weather Review</i> , <b>2016</b> , 144, 1203-1217	2.4	23
19	The EU-FP7 ERA-CLIM2 Project Contribution to Advancing Science and Production of Earth System Climate Reanalyses. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, 1003-1014	6.1	23
18	The potential value of early (1939-1967) upper-air data in atmospheric climate reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2017</b> , 143, 1197-1210	6.4	18
17	A Fully Implicit Scheme for the Barotropic Primitive Equations. <i>Monthly Weather Review</i> , <b>1985</b> , 113, 436-448	4.4	18
16	Fostering the development of climate services through Copernicus Climate Change Service (C3S) for agriculture applications. <i>Weather and Climate Extremes</i> , <b>2020</b> , 27, 100226	6	18
15	Ten Priority Science Gaps in Assessing Climate Data Record Quality. <i>Remote Sensing</i> , <b>2019</b> , 11, 986	5	15
14	Using Hough Harmonics to Validate and Assess Nonlinear shallow-Water Models. <i>Monthly Weather Review</i> , <b>1986</b> , 114, 2191-2196	2.4	12
13	Description of the ERA-CLIM historical upper-air data. <i>Earth System Science Data</i> , <b>2014</b> , 6, 29-48	10.5	12
12	The Copernicus Programme and its Climate Change Service <b>2018</b> ,		12
11	Benchmarking Northern Hemisphere midlatitude atmospheric synoptic variability in centennial reanalysis and numerical simulations. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5442-5449	4.9	11
10	An error analysis of radiance and suboptimal retrieval assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2000</b> , 126, 1495-1514	6.4	11
9	A weak-constraint four-dimensional variational analysis system in the stratosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2009</b> , 135, 695-706	6.4	9
8	Atmospheric Reanalyses and Climate Variations <b>2008</b> , 103-117		9
7	Recent Advances in Satellite Data Rescue. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 1471-1484	6.1	8
6	Advancing Global and Regional Reanalyses. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, ES139-ES144	6.1	8
5	Upper-air observations from the German Atlantic Expedition (1925-27) and comparison with the Twentieth Century and ERA-20C reanalyses. <i>Meteorologische Zeitschrift</i> , <b>2015</b> , 24, 525-544	3.1	7

4	A multigrid solver for semi-implicit global shallow-water models. <i>Atmosphere - Ocean</i> , <b>1990</b> , 28, 24-47	1.5	4
3	A factored implicit scheme for numerical weather prediction. <i>Communications on Pure and Applied Mathematics</i> , <b>1985</b> , 38, 503-517	2.5	2
2	Geo-locate project: a novel approach to resolving meteorological station location issues with the assistance of undergraduate students. <i>Geoscience Communication</i> , <b>2019</b> , 2, 157-171	0.7	0
1	Simplified adaptive Kalman filtering for large-scale geophysical models <b>1990</b> , 567-574		