Dick Dee

List of Publications by Year
in descending order

54 papers	35,908 citations	117571 34 h-index	168321 53 g-index
58 all docs	58 docs citations	58 times ranked	27193 citing authors

#	Article	IF	Citations
1	The ERAâ€Interim reanalysis: configuration and performance of the data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 553-597.	1.0	20,227
2	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049.	1.0	10,272
3	ERA-20C: An Atmospheric Reanalysis of the Twentieth Century. Journal of Climate, 2016, 29, 4083-4097.	1.2	807
4	ERA-Interim/Land: a global land surface reanalysis data set. Hydrology and Earth System Sciences, 2015, 19, 389-407.	1.9	483
5	Data assimilation in the presence of forecast bias. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 269-295.	1.0	361
6	Atmospheric conservation properties in ERAâ€Interim. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1381-1399.	1.0	310
7	On-line Estimation of Error Covariance Parameters for Atmospheric Data Assimilation. Monthly Weather Review, 1995, 123, 1128-1145.	0.5	306
8	CERAâ€20C: A Coupled Reanalysis of the Twentieth Century. Journal of Advances in Modeling Earth Systems, 2018, 10, 1172-1195.	1.3	212
9	Toward a Consistent Reanalysis of the Climate System. Bulletin of the American Meteorological Society, 2014, 95, 1235-1248.	1.7	184
10	Concurrent 2018 Hot Extremes Across Northern Hemisphere Due to Humanâ€Induced Climate Change. Earth's Future, 2019, 7, 692-703.	2.4	182
11	ERAâ€20CM: a twentiethâ€century atmospheric model ensemble. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2350-2375.	1.0	167
12	Assimilation of Global Positioning System radio occultation data in the ECMWF ERAâ€"Interim reanalysis. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1972-1990.	1.0	161
13	Estimating lowâ€frequency variability and trends in atmospheric temperature using ERAâ€Interim. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 329-353.	1.0	161
14	A coupled data assimilation system for climate reanalysis. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 65-78.	1.0	145
15	Maximum-Likelihood Estimation of Forecast and Observation Error Covariance Parameters. Part I: Methodology. Monthly Weather Review, 1999, 127, 1822-1834.	0.5	138
16	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	1.7	135
17	Simplification of the Kalman filter for meteorological data assimilation. Quarterly Journal of the Royal Meteorological Society, 1991, 117, 365-384.	1.0	108
18	A reassessment of temperature variations and trends from global reanalyses and monthly surface climatological datasets. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 101-119.	1.0	105

#	Article	IF	Citations
19	Data Assimilation in the Presence of Forecast Bias: The GEOS Moisture Analysis. Monthly Weather Review, 2000, 128, 3268-3282.	0.5	97
20	Enhanced radiance bias correction in the National Centers for Environmental Prediction's Gridpoint Statistical Interpolation data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1479-1492.	1.0	91
21	The Choice of Variable for Atmospheric Moisture Analysis. Monthly Weather Review, 2003, 131, 155-171.	0.5	88
22	ERA-CLIM: Historical Surface and Upper-Air Data for Future Reanalyses. Bulletin of the American Meteorological Society, 2014, 95, 1419-1430.	1.7	82
23	A multivariate treatment of bias for sequential data assimilation: Application to the tropical oceans. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 167-179.	1.0	75
24	Comments on â€œReanalyses Suitable for Characterizing Long-Term Trendsâ€• Bulletin of the American Meteorological Society, 2011, 92, 65-70.	1.7	75
25	Observability of Discretized Partial Differential Equations. SIAM Journal on Numerical Analysis, 1988, 25, 586-617.	1.1	65
26	Toward an Operational Anthropogenic CO2 Emissions Monitoring and Verification Support Capacity. Bulletin of the American Meteorological Society, 2020, 101, E1439-E1451.	1.7	63
27	An efficient algorithm for estimating noise covariances in distributed systems. IEEE Transactions on Automatic Control, 1985, 30, 1057-1065.	3.6	62
28	The relation between atmospheric humidity and temperature trends for stratospheric water. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1052-1074.	1.2	62
29	Forecast Model Bias Correction in Ocean Data Assimilation. Monthly Weather Review, 2005, 133, 1328-1342.	0.5	54
30	An adaptive buddy check for observational quality control. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 2451-2471.	1.0	49
31	Boolean Difference Equations, I: Formulation and Dynamic Behavior. SIAM Journal on Applied Mathematics, 1984, 44, 111-126.	0.8	48
32	Maximum-Likelihood Estimation of Forecast and Observation Error Covariance Parameters. Part II: Applications. Monthly Weather Review, 1999, 127, 1835-1849.	0.5	45
33	Improvements in the stratospheric transport achieved by a chemistry transport model with ECMWF (re)analyses: identifying effects and remaining challenges. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 654-673.	1.0	41
34	The Copernicus Programme and its Climate Change Service. , 2018, , .		38
35	Observations for Reanalyses. Bulletin of the American Meteorological Society, 2018, 99, 1851-1866.	1.7	35
36	Toward a consistent reanalysis of the upper stratosphere based on radiance measurements from SSU and AMSUâ€A. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 2086-2099.	1.0	34

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37	Impact of Scatterometer Surface Wind Data in the ECMWF Coupled Assimilation System. Monthly Weather Review, 2016, 144, 1203-1217.	0.5	33
38	Fostering the development of climate services through Copernicus Climate Change Service (C3S) for agriculture applications. Weather and Climate Extremes, 2020, 27, 100226.	1.6	28
39	An analysis of the vertical structure equation for arbitrary thermal profiles. Quarterly Journal of the Royal Meteorological Society, 1989, 115, 143-171.	1.0	27
40	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.	1.7	26
41	Using Hough Harmonics to Validate and Assess Nonlinear shallow-Water Models. Monthly Weather Review, 1986, 114, 2191-2196.	0.5	24
42	Ten Priority Science Gaps in Assessing Climate Data Record Quality. Remote Sensing, 2019, 11, 986.	1.8	20
43	The potential value of early (1939â€“1967) upperâ€air data in atmospheric climate reanalysis. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1197-1210.	1.0	19
44	A Fully Implicit Scheme for the Barotropic Primitive Equations. Monthly Weather Review, 1985, 113, 436-448.	0.5	18
45	Advancing Global and Regional Reanalyses. Bulletin of the American Meteorological Society, 2018, 99, ES139-ES144.	1.7	15
46	Benchmarking Northern Hemisphere midlatitude atmospheric synoptic variability in centennial reanalysis and numerical simulations. Geophysical Research Letters, 2016, 43, 5442-5449.	1.5	14
47	An error analysis of radiance and suboptimal retrieval assimilation. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 1495-1514.	1.0	13
48	A weakâ€constraint fourâ€dimensional variational analysis system in the stratosphere. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 695-706.	1.0	13
49	Description of the ERA-CLIM historical upper-air data. Earth System Science Data, 2014, 6, 29-48.	3.7	13
50	Recent Advances in Satellite Data Rescue. Bulletin of the American Meteorological Society, 2017, 98, 1471-1484.	1.7	11
51	Upper-air observations from the German Atlantic Expedition (1925â€“27) and comparison with the Twentieth Century and ERA-20C reanalyses. Meteorologische Zeitschrift, 2015, 24, 525-544.	0.5	9
52	A multigrid solver for semiâ€implicit global shallowâ€water models. Atmosphere - Ocean, 1990, 28, 24-47.	0.6	4
53	A factored implicit scheme for numerical weather prediction. Communications on Pure and Applied Mathematics, 1985, 38, 503-517.	1.2	2
54	Geo-locate project: a novel approach to resolving meteorological station location issues with the assistance of undergraduate students. Geoscience Communication, 2019, 2, 157-171.	0.5	1