

# Kenneth P Bowman

## List of Publications by Year in descending order

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83  
papers

8,769  
citations

147801

31  
h-index

62596

80  
g-index

84  
all docs

84  
docs citations

84  
times ranked

9784  
citing authors

#	ARTICLE	IF	CITATIONS
1	The TRMM Multisatellite Precipitation Analysis (TMPA): Quasi-Global, Multiyear, Combined-Sensor Precipitation Estimates at Fine Scales. <i>Journal of Hydrometeorology</i> , 2007, 8, 38-55.	1.9	5,934
2	Large-scale isentropic mixing properties of the Antarctic polar vortex from analyzed winds. <i>Journal of Geophysical Research</i> , 1993, 98, 23013-23027.	3.3	167
3	Stable isotopic composition of water vapor in the tropics. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	145
4	Comparison of TRMM Precipitation Retrievals with Rain Gauge Data from Ocean Buoys. <i>Journal of Climate</i> , 2005, 18, 178-190.	3.2	115
5	Error Reduction and Convergence in Climate Prediction. <i>Journal of Climate</i> , 2008, 21, 6698-6709.	3.2	114
6	Global Patterns of the Quasi-biennial Oscillation in Total Ozone. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 3328-3343.	1.7	111
7	A Comparison of Gamma and Lognormal Distributions for Characterizing Satellite Rain Rates from the Tropical Rainfall Measuring Mission. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 1586-1597.	1.7	105
8	A global climatology of total ozone from the Nimbus 7 total ozone mapping spectrometer. <i>Journal of Geophysical Research</i> , 1985, 90, 7967-7976.	3.3	104
9	The Mean-Meridional Transport Circulation of the Troposphere in an Idealized GCM. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 1502-1514.	1.7	99
10	The Stratosphere-Troposphere Analyses of Regional Transport 2008 Experiment. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 327-342.	3.3	96
11	Rossby Wave Breaking and Transport between the Tropics and Extratropics above the Subtropical Jet. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 607-626.	1.7	81
12	Diurnal cycle of tropical precipitation in a general circulation model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	76
13	Diurnal cycle of tropical precipitation in Tropical Rainfall Measuring Mission (TRMM) satellite and ocean buoy rain gauge data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	66
14	Arctic sea ice variability: Model sensitivities and a multidecadal simulation. <i>Journal of Geophysical Research</i> , 1994, 99, 919.	3.3	62
15	Comparison of Freezing-Level Altitudes from the NCEP Reanalysis with TRMM Precipitation Radar Brightband Data. <i>Journal of Climate</i> , 2000, 13, 4137-4148.	3.2	59
16	The Diurnal Cycle of Precipitation in Tropical Cyclones. <i>Journal of Climate</i> , 2015, 28, 5325-5334.	3.2	57
17	A case study of convectively sourced water vapor observed in the overworld stratosphere over the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9529-9554.	3.3	57
18	Input Data Requirements for Lagrangian Trajectory Models. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1051-1058.	3.3	56

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19	Extratropical tropopause transition layer characteristics from high-resolution sounding data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	52
20	Rosby Wave Phase Speeds and Mixing Barriers in the Stratosphere. Part I: Observations. <i>Journals of the Atmospheric Sciences</i> , 1996, 53, 905-916.	1.7	46
21	Equatorial Waves Including the Madden-Julian Oscillation in TRMM Rainfall and OLR Data. <i>Journal of Climate</i> , 2004, 17, 4387-4406.	3.2	46
22	Interhemispheric Exchange by Seasonal Modulation of the Hadley Circulation. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 2045-2059.	1.7	45
23	Enhanced new particle formation observed in the northern midlatitude tropopause region. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
24	Ten Year Analysis of Tropopause Overshooting Convection Using GridRad Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 329-343.	3.3	43
25	Dynamical and chemical characteristics of tropospheric intrusions observed during START08. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	40
26	Comparison of TRMM rainfall retrievals with rain gauge data from the TAO/TRITON buoy array. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	38
27	Observational study of the quasi-biennial oscillation in ozone. <i>Journal of Geophysical Research</i> , 1995, 100, 7347-7361.	3.3	37
28	Stratospheric ozone over the United States in summer linked to observations of convection and temperature via chlorine and bromine catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4905-E4913.	7.1	36
29	Climatology of large-scale isentropic mixing in the Arctic winter stratosphere from analyzed winds. <i>Journal of Geophysical Research</i> , 1994, 99, 20585.	3.3	34
30	Tropopause-Penetrating Convection from Three-Dimensional Gridded NEXRAD Data. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 465-478.	1.5	34
31	A climatology of isentropic cross-tropopause exchange. <i>Journal of Geophysical Research</i> , 2001, 106, 28159-28172.	3.3	33
32	Transport of carbon monoxide from the tropics to the extratropics. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	33
33	Observations of fine-scale transport structure in the upper troposphere from the High-performance Instrumented Airborne Platform for Environmental Research. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
34	Polar stratospheric clouds at the South Pole in 1990: Lidar observations and analysis. <i>Journal of Geophysical Research</i> , 1993, 98, 1001-1010.	3.3	31
35	Design and Analysis of Numerical Experiments. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 1267-1278.	1.7	31
36	Northern hemisphere summer ozone variability observed by POAM II. <i>Geophysical Research Letters</i> , 1999, 26, 827-830.	4.0	29

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37	Changes in TRMM Rainfall due to the Orbit Boost Estimated from Buoy Rain Gauge Data. Journal of Atmospheric and Oceanic Technology, 2007, 24, 1598-1607.	1.3	28
38	Barotropic Simulation of Large-Scale Mixing in the Antarctic Polar Vortex. Journals of the Atmospheric Sciences, 1993, 50, 2901-2914.	1.7	27
39	Transport of smoke from the Central American fires of 1998. Journal of Geophysical Research, 2001, 106, 28357-28368.	3.3	27
40	A Summary of Reflectivity Profiles from the First Year of TRMM Radar Data. Journal of Climate, 2000, 13, 4072-4086.	3.2	26
41	Lagrangian estimate of global stratosphere-troposphere mass exchange. Journal of Geophysical Research, 2002, 107, ACL 2-1-ACL 2-8.	3.3	26
42	Expected impact of an aged biomass burning aerosol on cloud condensation nuclei and cloud droplet concentrations. Journal of Geophysical Research, 2006, 111, .	3.3	26
43	Comparison of Global-Scale Lagrangian Transport Properties of the NCEP Reanalysis and CCM3. Journal of Climate, 2004, 17, 1135-1146.	3.2	24
44	Observations of Deformation and Mixing of the Total Ozone Field in the Antarctic Polar Vortex. Journals of the Atmospheric Sciences, 1993, 50, 2915-2921.	1.7	23
45	Statistical Tests of Taylor's Hypothesis: An Application to Precipitation Fields. Journal of Hydrometeorology, 2009, 10, 254-265.	1.9	22
46	Convective injection into stratospheric intrusions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	22
47	Sensitivity of an annual mean diffusive energy balance model with an ice sheet. Journal of Geophysical Research, 1982, 87, 9667-9674.	3.3	20
48	The small ice cap instability in seasonal energy balance models. Climate Dynamics, 1992, 7, 205-215.	3.8	20
49	Wavebreaking and mixing in the northern hemisphere summer stratosphere. Journal of Geophysical Research, 2000, 105, 24799-24807.	3.3	20
50	Interannual variations of tropical instability waves observed by the Tropical Rainfall Measuring Mission. Geophysical Research Letters, 2007, 34, .	4.0	19
51	A Comparison of Oceanic Precipitation Estimates in the Tropics and Subtropics. Journal of Applied Meteorology and Climatology, 2009, 48, 1335-1344.	1.5	17
52	Forcing of the Upper-Tropospheric Monsoon Anticyclones. Journals of the Atmospheric Sciences, 2019, 76, 1937-1954.	1.7	17
53	Interannual variability of total ozone during the breakdown of the Antarctic circumpolar vortex. Geophysical Research Letters, 1986, 13, 1193-1196.	4.0	14
54	Simulations of precipitation using NRCM and comparisons with satellite observations and CAM: annual cycle. Climate Dynamics, 2011, 36, 1659-1679.	3.8	14

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55	Incorporating geostrophic wind information for improved space-time short-term wind speed forecasting. <i>Annals of Applied Statistics</i> , 2014, 8, .	1.1	14
56	Role of convection in global-scale transport in the troposphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	13
57	Evidence for 35-50 day low frequency oscillations in total ozone mapping spectrometer data. <i>Geophysical Research Letters</i> , 1987, 14, 945-947.	4.0	12
58	Mixing by Barotropic Instability in a Nonlinear Model. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 3692-3705.	1.7	12
59	A Matérn model of the spatial covariance structure of point rain rates. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 411-416.	4.0	12
60	Unsteady Vortex Behavior in the Asian Monsoon Anticyclone. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 4067-4088.	1.7	12
61	Tropical mixing barriers in the lower stratosphere in the Geophysical Fluid Dynamics Laboratory SKYHI model. <i>Journal of Geophysical Research</i> , 1997, 102, 21465-21478.	3.3	11
62	Stationary anomalies in stratospheric meteorological data sets. <i>Geophysical Research Letters</i> , 1998, 25, 2429-2432.	4.0	11
63	LÃvy flights and anomalous diffusion in the stratosphere. <i>Journal of Geophysical Research</i> , 2000, 105, 12295-12302.	3.3	10
64	Differences in rain rate intensities between TRMM observations and community atmosphere model simulations. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	10
65	Multiyear satellite observations of the atmospheric response to Atlantic tropical instability waves. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	10
66	Diffusive Transport by Breaking Waves. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 2416-2427.	1.7	9
67	Evolution of the total ozone field during the breakdown of the Antarctic circumpolar vortex. <i>Journal of Geophysical Research</i> , 1990, 95, 16529-16543.	3.3	8
68	A Multigrid Solver for the Helmholtz Equation on a Semiregular Grid on the Sphere. <i>Monthly Weather Review</i> , 1991, 119, 769-775.	1.4	7
69	A Comparison of Tropical Precipitation Simulated by the Community Climate Model with That Measured by the Tropical Rainfall Measuring Mission Satellite. <i>Journal of Climate</i> , 2004, 17, 3319-3333.	3.2	6
70	A 22-Year Evaluation of Convection Reaching the Stratosphere Over the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034808.	3.3	5
71	Sensitivity of an energy balance climate model with predicted snowfall rates. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1985, 37A, 233-248.	1.7	4
72	Ientropic mixing in the Arctic stratosphere during the 1992-1993 and 1993-1994 winters. <i>Geophysical Research Letters</i> , 1995, 22, 1237-1240.	4.0	4

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73	Global Impact of Cloud Longwave Scattering in an Atmosphere-Only General Circulation Model Simulation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033968.	3.3	4
74	Comparing Tropopause-Penetrating Convection Identifications Derived From NEXRAD and GOES Over the Contiguous United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034319.	3.3	4
75	An adaptive spatial model for precipitation data from multiple satellites over large regions. Statistics and Computing, 2015, 25, 389-405.	1.5	3
76	Convective forcing of the North American Monsoon Anticyclone at intraseasonal and interannual time scales. Journals of the Atmospheric Sciences, 2021, 78, 2941-2956.	1.7	3
77	Lagrangian Methods for Climatological Analysis of Regional Atmospheric Transport. Journal of Applied Meteorology and Climatology, 2004, 43, 623-630.	1.7	2
78	Convective transport of trace species observed during the Stratosphere-Troposphere Analyses of Regional Transport 2008 experiment. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,530.	3.3	2
79	A Networked Desktop Synoptic Laboratory. Bulletin of the American Meteorological Society, 1992, 73, 944-950.	3.3	1
80	Atmospheric response to Atlantic tropical instability waves in Community Atmosphere Model version 3. Journal of Geophysical Research, 2008, 113, .	3.3	1
81	educational affairs. Bulletin of the American Meteorological Society, 1996, 77, 2907-2918.	3.3	0
82	Ground truth and climate model comparison for TRMM rainfall data. , 2004, , .		0
83	Latitude Dependence of Eddy Variances. Monthly Weather Review, 1987, 115, 2395-2401.	1.4	0