Kevin Hamilton

List of Publications by Year
in descending order

129 papers	7,900 citations	53794 45 h-index	53230 85 g-index
138 all docs	138 docs citations	138 times ranked	5822 citing authors

#	Article	IF	Citations
1	The quasi-biennial oscillation. Reviews of Geophysics, 2001, 39, 179-229.	23.0	1,650
2	The South Asian Summer Monsoon and Its Relationship with ENSO in the IPCC AR4 Simulations. Journal of Climate, 2007, 20, 1071-1092.	3.2	353
3	Improved Representation of Boundary Layer Clouds over the Southeast Pacific in ARW-WRF Using a Modified Tiedtke Cumulus Parameterization Scheme*. Monthly Weather Review, 2011, 139, 3489-3513.	1.4	351
4	Comprehensive Model Simulation of Thermal Tides in the Martian Atmosphere. Journals of the Atmospheric Sciences, 1996, 53, 1290-1326.	1.7	248
5	Arctic Oscillation response to the 1991 Mount Pinatubo eruption: Effects of volcanic aerosols and ozone depletion. Journal of Geophysical Research, 2002, 107, ACL 28-1.	3.3	210
6	Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models. Journal of Geophysical Research, 2006, 111, .	3.3	199
7	The SPARC Intercomparison of Middle-Atmosphere Climatologies. Journal of Climate, 2004, 17, 986-1003.	3.2	187
8	Atmospheric forcing of interannual variability in the northeast Pacific Ocean: Connections with El NiÃ±o. Journal of Geophysical Research, 1985, 90, 857-868.	3.3	164
9	Climatology of the SKYHI Troposphereâ€“Stratosphereâ€“Mesosphere General Circulation Model. Journals of the Atmospheric Sciences, 1995, 52, 5-43.	1.7	153
10	The GCMâ€“Reality Intercomparison Project for SPARC (GRIPS): Scientific Issues and Initial Results. Bulletin of the American Meteorological Society, 2000, 81, 781-796.	3.3	146
11	An unexpected disruption of the atmospheric quasi-biennial oscillation. Science, 2016, 353, 1424-1427.	12.6	137
12	The Horizontal Kinetic Energy Spectrum and Spectral Budget Simulated by a High-Resolution Troposphereâ€“Stratosphereâ€“Mesosphere GCM. Journals of the Atmospheric Sciences, 2001, 58, 329-348.	1.7	131
13	Effect of Convective Entrainment/Detrainment on the Simulation of the Tropical Precipitation Diurnal Cycle*. Monthly Weather Review, 2007, 135, 567-585.	1.4	130
14	Tropical Cyclone Changes in the Western North Pacific in a Global Warming Scenario. Journal of Climate, 2007, 20, 2378-2396.	3.2	118
15	Mesoscale spectrum of atmospheric motions investigated in a very fine resolution global general circulation model. Journal of Geophysical Research, 2008, 113, .	3.3	112
16	Weakened stratospheric quasibiennial oscillation driven by increased tropical mean upwelling. Nature, 2013, 497, 478-481.	27.8	111
17	Simulating Clouds with Global Climate Models: A Comparison of CMIP5 Results with CMIP3 and Satellite Data. Journal of Climate, 2013, 26, 3823-3845.	3.2	109
18	An 18-year time series of OH rotational temperatures and middle atmosphere decadal variations. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1147-1166.	1.6	105

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19	Middle Atmosphere Simulated with High Vertical and Horizontal Resolution Versions of a GCM: Improvements in the Cold Pole Bias and Generation of a QBO-like Oscillation in the Tropics. Journals of the Atmospheric Sciences, 1999, 56, 3829-3846.	1.7	102
20	Tropical Cumulus Convection and Upward-Propagating Waves in Middle-Atmospheric GCMs. Journals of the Atmospheric Sciences, 2003, 60, 2765-2782.	1.7	96
21	Cloud base and top heights in the Hawaiian region determined with satellite and groundâ€based measurements. Geophysical Research Letters, 2012, 39, .	4.0	86
22	Latent Heat Release as a Possible Forcing Mechanism for Atmospheric Tides. Monthly Weather Review, 1981, 109, 3-17.	1.4	84
23	Overview of experiment design and comparison of models participating in phase 1 of the SPARC Quasi-Biennial Oscillation initiative (QBOi). Geoscientific Model Development, 2018, 11, 1009-1032.	3.6	81
24	Kinetic energy spectrum of horizontal motions in middle-atmosphere models. Journal of Geophysical Research, 1999, 104, 27177-27190.	3.3	77
25	Middle Atmospheric Traveling Waves Forced by Latent and Convective Heating. Journals of the Atmospheric Sciences, 1993, 50, 2180-2200.	1.7	76
26	QBO influence on extratropical predictive skill. Climate Dynamics, 2008, 31, 987-1000.	3.8	75
27	Climatological statistics of stratospheric inertiaâ€gravity waves deduced from historical rocketsonde wind and temperature data. Journal of Geophysical Research, 1991, 96, 20831-20839.	3.3	74
28	An Examination of Observed Southern Oscillation Effects in the Northern Hemisphere Stratosphere. Journals of the Atmospheric Sciences, 1993, 50, 3468-3474.	1.7	73
29	Upper atmosphere tidal oscillations due to latent heat release in the tropical troposphere. Annales Geophysicae, 1997, 15, 1165-1175.	1.6	73
30	Arctic oscillation response to the 1991 Pinatubo eruption in the SKYHI general circulation model with a realistic quasi-biennial oscillation. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	71
31	Effects of an Imposed Quasi-Biennial Oscillation in a Comprehensive Troposphereâ€“Stratosphereâ€“Mesosphere General Circulation Model. Journals of the Atmospheric Sciences, 1998, 55, 2393-2418.	1.7	70
32	General Circulation Model Simulation of the Semiannual Oscillation of the Tropical Middle Atmosphere. Journals of the Atmospheric Sciences, 1988, 45, 3212-3235.	1.7	68
33	Interannual Variability in the Northern Hemisphere Winter Middle Atmosphere in Control and Perturbed Experiments with the GFDL SKYHI General Circulation Model. Journals of the Atmospheric Sciences, 1995, 52, 44-66.	1.7	67
34	Mean Wind Evolution through the Quasi-Biennial Cycle in the Tropical Lower Stratosphere. Journals of the Atmospheric Sciences, 1984, 41, 2113-2125.	1.7	65
35	Explicit global simulation of the mesoscale spectrum of atmospheric motions. Geophysical Research Letters, 2006, 33, .	4.0	63
36	Rocketsonde observations of the mesospheric semiannual oscillation at Kwajalein. Atmosphere - Ocean, 1982, 20, 281-286.	1.6	62

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37	Downscaling of Climate Change in the Hawaii Region Using CMIP5 Results: On the Choice of the Forcing Fields*. Journal of Climate, 2013, 26, 10006-10030.	3.2	57
38	Dynamical Downscaling of the Climate for the Hawaiian Islands. Part II: Projection for the Late Twenty-First Century. Journal of Climate, 2016, 29, 8333-8354.	3.2	56
39	Representation of the tropical stratospheric zonal wind in global atmospheric reanalyses. Atmospheric Chemistry and Physics, 2016, 16, 6681-6699.	4.9	56
40	A detailed examination of the extratropical response to Tropical El NiÃ±o/Southern Oscillation events. Journal of Climatology, 1988, 8, 67-86.	0.7	54
41	On the Quasi-Decadal Modulation of the Stratospheric QBO Period. Journal of Climate, 2002, 15, 2562-2565.	3.2	54
42	Configuration and Evaluation of the WRF Model for the Study of Hawaiian Regional Climate. Monthly Weather Review, 2012, 140, 3259-3277.	1.4	53
43	Comprehensive meteorological modelling of the middle atmosphere: a tutorial review. Journal of Atmospheric and Solar-Terrestrial Physics, 1996, 58, 1591-1627.	0.9	51
44	Equilibrium dynamics in a forced-dissipative f-plane shallow-water system. Journal of Fluid Mechanics, 1994, 280, 369-394.	3.4	49
45	Theory and observations of the shortâ€period normal mode oscillations of the atmosphere. Journal of Geophysical Research, 1986, 91, 11867-11875.	3.3	47
46	Interhemispheric Asymmetry and Annual Synchronization of the Ozone Quasi-biennial Oscillation. Journals of the Atmospheric Sciences, 1989, 46, 1019-1025.	1.7	46
47	The Impact of Global Warming on Marine Boundary Layer Clouds over the Eastern Pacificâ€”A Regional Model Study. Journal of Climate, 2010, 23, 5844-5863.	3.2	46
48	The Quasi-Biennial Oscillation in a Double CO2 Climate. Journals of the Atmospheric Sciences, 2011, 68, 265-283.	1.7	45
49	Spontaneous Stratospheric QBO-like Oscillations Simulated by the GFDL SKYHI General Circulation Model. Journals of the Atmospheric Sciences, 2001, 58, 3271-3292.	1.7	43
50	Simulation of the Î²â^'5/3mesoscale spectral regime in the GFDL SKYHI General Circulation Model. Geophysical Research Letters, 1999, 26, 843-846.	4.0	42
51	Evaluation of the Quasiâ€Biennial Oscillation in global climate models for the SPARC QBOâ€initiative. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1459-1489.	2.7	41
52	El NiÃ±o/Southern Oscillation Events and Their Associated Midlatitude Teleconnections 1531â€“1841. Bulletin of the American Meteorological Society, 1986, 67, 1354-1361.	3.3	39
53	A note on the observed diurnal and semidiurnal rainfall variations. Journal of Geophysical Research, 1981, 86, 12122-12126.	3.3	38
54	Simulation of solar tides in the Canadian Climate Centre general circulation model. Journal of Geophysical Research, 1986, 91, 11877-11896.	3.3	37

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55	100 Years of Progress in Understanding the Stratosphere and Mesosphere. Meteorological Monographs, 2019, 59, 27.1-27.62.	5.0	37
56	Dynamical Downscaling of the Climate for the Hawaiian Islands. Part I: Present Day. Journal of Climate, 2016, 29, 3027-3048.	3.2	36
57	Response of the Quasiâ€Biennial Oscillation to a warming climate in global climate models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1490-1518.	2.7	36
58	Dynamics of the Stratospheric Semiannual Oscillation. Journal of the Meteorological Society of Japan, 1986, 64, 227-244.	1.8	33
59	Dynamics of the Tropical Middle Atmosphere: A Tutorial Review*. Atmosphere - Ocean, 1998, 36, 319-354.	1.6	31
60	Longitudinal Variation of the Stratospheric Quasi-Biennial Oscillation. Journals of the Atmospheric Sciences, 2004, 61, 383-402.	1.7	31
61	Climate sensitivity and climate change under strong forcing. Climate Dynamics, 2005, 24, 685-700.	3.8	29
62	Inferring climate sensitivity from volcanic events. Climate Dynamics, 2007, 28, 481-502.	3.8	29
63	Longâ€period variations in the solar semidiurnal atmospheric tide. Journal of Geophysical Research, 1984, 89, 11705-11710.	3.3	28
64	Interannual Variations of Stratospheric Water Vapor in MLS Observations and Climate Model Simulations. Journals of the Atmospheric Sciences, 2014, 71, 4072-4085.	1.7	28
65	A Very High Resolution General Circulation Model Simulation of the Global Circulation in Austral Winter. Journals of the Atmospheric Sciences, 1997, 54, 1107-1116.	1.7	27
66	Representation of the quasi-biennial oscillation in the tropical stratospheric wind by nonlinear principal component analysis. Journal of Geophysical Research, 2002, 107, ACL 3-1.	3.3	27
67	The vertical structure of the quasiâ€biennial oscillation: Observations and theory. Atmosphere - Ocean, 1981, 19, 236-250.	1.6	26
68	Some Features of the Climatology of the Northern Hemisphere Stratosphere Revealed by NMC Upper Atmosphere Analyses. Journals of the Atmospheric Sciences, 1982, 39, 2737-2749.	1.7	26
69	Response of Tropical Cyclone Potential Intensity to a Global Warming Scenario in the IPCC AR4 CGCMs. Journal of Climate, 2010, 23, 1354-1373.	3.2	26
70	High-resolution radiosonde data offer new prospects for research. Eos, 1995, 76, 497-497.	0.1	24
71	Quasi-Biennial and Other Long-Period Variations in the Solar Semidiurnal Barometric Oscillation: Observations, Theory and Possible Application to the Problem of Monitoring Changes in Global Ozone. Journals of the Atmospheric Sciences, 1983, 40, 2432-2443.	1.7	23
72	First Successful Hindcasts of the 2016 Disruption of the Stratospheric Quasiâ€biennial Oscillation. Geophysical Research Letters, 2018, 45, 1602-1610.	4.0	23

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73	Teleconnections of the Quasiâ€Biennial Oscillation in a multiâ€model ensemble of QBOâ€resolving models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1568-1592.	2.7	23
74	Darwin Area Wave Experiment (DAWEX) field campaign to study gravity wave generation and propagation. Journal of Geophysical Research, 2004, 109, .	3.3	22
75	Experiments on Tropical Stratospheric Mean-Wind Variations in a Spectral General Circulation Model. Journals of the Atmospheric Sciences, 1992, 49, 2464-2483.	1.7	21
76	Effects of the stratospheric quasi-biennial oscillation on long-lived greenhouse gases in the troposphere. Journal of Geophysical Research, 2000, 105, 20581-20587.	3.3	21
77	Dynamical coupling of the lower and middle atmosphere historical background to current research. Journal of Atmospheric and Solar-Terrestrial Physics, 1999, 61, 73-84.	1.6	19
78	Aspects of wave behaviour in the midâ€and upper troposphere of the southern Hemisphere. Atmosphere - Ocean, 1983, 21, 40-54.	1.6	18
79	Local and Global Climate Feedbacks in Models with Differing Climate Sensitivities. Journal of Climate, 2006, 19, 193-209.	3.2	18
80	The geographical distribution of the solar semidiurnal surface pressure oscillation. Journal of Geophysical Research, 1980, 85, 1945-1949.	3.3	17
81	A general circulation model simulation of El Nino effects in the extratropical northern hemisphere stratosphere. Geophysical Research Letters, 1993, 20, 1803-1806.	4.0	17
82	Numerical Resolution and Modeling of the Global Atmospheric Circulation: A Review of Our Current Understanding and Outstanding Issues. , 2008, , 7-27.		16
83	A numerical simulation of the stratospheric ozone quasi-biennial oscillation using a comprehensive general circulation model. Journal of Geophysical Research, 1999, 104, 30525-30557.	3.3	15
84	Indications of long-term changes in middle atmosphere transports. Advances in Space Research, 2003, 32, 1675-1684.	2.6	15
85	Prediction of the quasiâ€biennial oscillation with a multiâ€model ensemble of <scp>QBO</scp>â€resolving models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1519-1540.	2.7	15
86	Observations of Tropical Stratospheric Winds before World War II. Bulletin of the American Meteorological Society, 1998, 79, 1367-1371.	3.3	14
87	Physical Processes Controlling the Tide in the Tropical Lower Atmosphere Investigated Using a Comprehensive Numerical Model. Journals of the Atmospheric Sciences, 2017, 74, 2467-2487.	1.7	14
88	Representation of the equatorial stratopause semiannual oscillation in global atmospheric reanalyses. Atmospheric Chemistry and Physics, 2020, 20, 9115-9133.	4.9	14
89	A possible relationship between tropical ocean temperatures and the observed amplitude of the atmospheric (1, 1) Rossby normal mode. Journal of Geophysical Research, 1985, 90, 8071-8074.	3.3	13
90	Comprehensive simulation of the middle atmospheric climate: some recent results. Climate Dynamics, 1995, 11, 223-241.	3.8	13

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91	Nonlinear singular spectrum analysis of the tropical stratospheric wind. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2367-2382.	2.7	13
92	Is there a stratospheric pacemaker controlling the daily cycle of tropical rainfall?. Geophysical Research Letters, 2017, 44, 1998-2006.	4.0	13
93	Relationship between Shortwave Cloud Radiative Forcing and Local Meteorological Variables Compared in Observations and Several Global Climate Models. Journal of Climate, 2006, 19, 4344-4359.	3.2	12
94	Sereno Bishop, Rollo Russell, Bishop's Ring and the Discovery of the â€œKrakatoa Easterliesâ€• Atmosphere - Ocean, 2012, 50, 169-175.	1.6	12
95	Topographic effects on the solar semidiurnal surface tide simulated in a very fine resolution general circulation model. Journal of Geophysical Research, 2008, 113, .	3.3	11
96	Nonlinear Representation of the Quasi-Biennial Oscillation. Journals of the Atmospheric Sciences, 2009, 66, 1886-1904.	1.7	11
97	The Effects of Changes in Sea Surface Temperature and CO2 Concentration on the Quasi-Biennial Oscillation. Journals of the Atmospheric Sciences, 2012, 69, 1734-1749.	1.7	11
98	ENSO Modulation of the QBO: Results from MIROC Models with and without Nonorographic Gravity Wave Parameterization. Journals of the Atmospheric Sciences, 2019, 76, 3893-3917.	1.7	11
99	Evidence for a Normal Mode Kelvin Wave in the Atmosphere. Journal of the Meteorological Society of Japan, 1984, 62, 308-311.	1.8	10
100	The Roles of the Hadley Circulation and Downward Control in Tropical Upwelling. Journals of the Atmospheric Sciences, 2006, 63, 2740-2757.	1.7	10
101	The Effects of a Well-Resolved Stratosphere on the Simulated Boreal Winter Circulation in a Climate Model. Journals of the Atmospheric Sciences, 2019, 76, 1203-1226.	1.7	10
102	The Role of Parameterized Drag in a Troposphere-Stratosphere-Mesosphere General Circulation Model. , 1997, , 337-350.		8
103	Modeling the Stratosphere's "Heartbeat". Eos, 2015, 96, .	0.1	8
104	High resolution global modeling of the atmospheric circulation. Advances in Atmospheric Sciences, 2006, 23, 842-856.	4.3	7
105	Morphology of Tropical Upwelling in the Lower Stratosphere. Journals of the Atmospheric Sciences, 2008, 65, 2360-2374.	1.7	7
106	The SPARC Quasiâ€Biennial Oscillation initiative. Quarterly Journal of the Royal Meteorological Society, 2020, , .	2.7	7
107	General circulation model simulation of the structure and energetics of atmospheric normal modes. Tellus, Series A: Dynamic Meteorology and Oceanography, 1987, 39A, 435-459.	1.7	6
108	A note on apparent solar time and the seasonal cycle of atmospheric solar tides. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2310-2314.	2.7	6

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109	Monitoring and projecting snow on Hawaii Island. Earth's Future, 2017, 5, 436-448.	6.3	6
110	Observations of the solar diurnal and semidiurnal surface pressure oscillations in Canada. Atmosphere - Ocean, 1980, 18, 89-97.	1.6	5
111	Calculation of the effect of stratospheric mean wind variations on the solar semidiurnal barometric oscillation. Atmosphere - Ocean, 1984, 22, 48-66.	1.6	4
112	Observation of an ultraslow large-scale wave near the tropical tropopause. Journal of Geophysical Research, 1997, 102, 13457-13464.	3.3	4
113	Modeling the Response of Marine Boundary Layer Clouds to Global Warming: The Impact of Subgrid-Scale Precipitation Formation. Journal of Climate, 2012, 25, 6610-6626.	3.2	4
114	Exploring the â€˜prehistoryâ€™ of the equatorial stratosphere with observations following major volcanic eruptions. Weather, 2018, 73, 154-159.	0.7	4
115	Comprehensive simulation of the middle atmospheric climate: some recent results. Climate Dynamics, 1995, 11, 223-241.	3.8	4
116	The westerly acceleration phase of the stratospheric quasiâ€biennial oscillation as revealed in FGGE analyses: Research note. Atmosphere - Ocean, 1985, 23, 188-192.	1.6	3
117	Equatorial Atlantic sea surface temperature variations: Research note. Atmosphere - Ocean, 1988, 26, 668-678.	1.6	3
118	Experiment will examine gravity waves in the middle atmosphere. Eos, 2000, 81, 517.	0.1	3
119	A Note on the Interaction Between a Thermally Forced Standing Internal Gravity Wave and the Mean Flow, With an Application to the Theory of the Quasi-Biennial Oscillation. Journals of the Atmospheric Sciences, 1982, 39, 1881-1886.	1.7	3
120	Free and forced interannual variability of the circulation in the extratropical northern hemisphere middle atmosphere. Geophysical Monograph Series, 2000, , 227-239.	0.1	2
121	Aspects of Mesospheric Simulation in a Comprehensive General Circulation Model. Geophysical Monograph Series, 0, , 255-264.	0.1	2
122	MIDDLE ATMOSPHERE | Semiannual Oscillation. , 2015, , 26-29.		2
123	Discovery of a lunar air temperature tide over the ocean: a diagnostic of air-sea coupling. Npj Climate and Atmospheric Science, 2018, 1, .	6.8	2
124	A Review of Observations of the Quasi-Biennial and Semiannual Oscillations of Wind and Temperature in the Tropical Middle Atmosphere. , 1987, , 19-29.		2
125	Gravity currents in the environment and the laboratory. Eos, 1998, 79, 71-71.	0.1	1
126	Discovery of Quasiâ€Stationary Equatorial Waves Trapped in Stratospheric QBO Westerly and Easterly Jets. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	1

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127	Empirical estimates of global climate sensitivity: An assessment of strategies using a coupled GCM. Advances in Atmospheric Sciences, 2008, 25, 339-347.	4.3	0
128	MIDDLE ATMOSPHERE | Semiannual Oscillation. , 2003, , 1336-1341.		0
129	At the dawn of global climate modeling: the strange case of the Leith atmosphere model. History of Geo- and Space Sciences, 2020, 11, 93-103.	0.4	0