

Kevin Hamilton

List of Publications by Year in descending order

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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	Prediction of the quasi-biennial oscillation with a multi-model ensemble of QBO-resolving models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1519-1540.	2.7	15
2	Evaluation of the Quasi-Biennial Oscillation in global climate models for the SPARC QBO initiative. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1459-1489.	2.7	41
3	Response of the Quasi-Biennial Oscillation to a warming climate in global climate models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1490-1518.	2.7	36
4	Teleconnections of the Quasi-Biennial Oscillation in a multi-model ensemble of QBO-resolving models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1568-1592.	2.7	23
5	Discovery of Quasi-Stationary Equatorial Waves Trapped in Stratospheric QBO Westerly and Easterly Jets. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	1
6	The SPARC Quasi-Biennial Oscillation initiative. Quarterly Journal of the Royal Meteorological Society, 2020, , .	2.7	7
7	Representation of the equatorial stratopause semiannual oscillation in global atmospheric reanalyses. Atmospheric Chemistry and Physics, 2020, 20, 9115-9133.	4.9	14
8	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
9	100 Years of Progress in Understanding the Stratosphere and Mesosphere. Meteorological Monographs, 2019, 59, 27.1-27.62.	5.0	37
10	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
11	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
12	First Successful Hindcasts of the 2016 Disruption of the Stratospheric Quasi-Biennial Oscillation. Geophysical Research Letters, 2018, 45, 1602-1610.	4.0	23
13	Exploring the "prehistory" of the equatorial stratosphere with observations following major volcanic eruptions. Weather, 2018, 73, 154-159.	0.7	4
14	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
15	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
16	Is there a stratospheric pacemaker controlling the daily cycle of tropical rainfall?. Geophysical Research Letters, 2017, 44, 1998-2006.	4.0	13
17	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
18	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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19	Monitoring and projecting snow on Hawaii Island. <i>Earth's Future</i> , 2017, 5, 436-448.	6.3	6
20	An unexpected disruption of the atmospheric quasi-biennial oscillation. <i>Science</i> , 2016, 353, 1424-1427.	12.6	137
21	Dynamical Downscaling of the Climate for the Hawaiian Islands. Part II: Projection for the Late Twenty-First Century. <i>Journal of Climate</i> , 2016, 29, 8333-8354.	3.2	56
22	Representation of the tropical stratospheric zonal wind in global atmospheric reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6681-6699.	4.9	56
23	Dynamical Downscaling of the Climate for the Hawaiian Islands. Part I: Present Day. <i>Journal of Climate</i> , 2016, 29, 3027-3048.	3.2	36
24	MIDDLE ATMOSPHERE Semiannual Oscillation. , 2015, , 26-29.		2
25	Modeling the Stratosphere's "Heartbeat". <i>Eos</i> , 2015, 96, .	0.1	8
26	Interannual Variations of Stratospheric Water Vapor in MLS Observations and Climate Model Simulations. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 4072-4085.	1.7	28
27	Weakened stratospheric quasibiennial oscillation driven by increased tropical mean upwelling. <i>Nature</i> , 2013, 497, 478-481.	27.8	111
28	Simulating Clouds with Global Climate Models: A Comparison of CMIP5 Results with CMIP3 and Satellite Data. <i>Journal of Climate</i> , 2013, 26, 3823-3845.	3.2	109
29	Downscaling of Climate Change in the Hawaii Region Using CMIP5 Results: On the Choice of the Forcing Fields*. <i>Journal of Climate</i> , 2013, 26, 10006-10030.	3.2	57
30	Configuration and Evaluation of the WRF Model for the Study of Hawaiian Regional Climate. <i>Monthly Weather Review</i> , 2012, 140, 3259-3277.	1.4	53
31	The Effects of Changes in Sea Surface Temperature and CO2 Concentration on the Quasi-Biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 1734-1749.	1.7	11
32	Modeling the Response of Marine Boundary Layer Clouds to Global Warming: The Impact of Subgrid-Scale Precipitation Formation. <i>Journal of Climate</i> , 2012, 25, 6610-6626.	3.2	4
33	Serenio Bishop, Rollo Russell, Bishop's Ring and the Discovery of the "Krakatoa Easterlies". <i>Atmosphere - Ocean</i> , 2012, 50, 169-175.	1.6	12
34	Cloud base and top heights in the Hawaiian region determined with satellite and ground-based measurements. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	86
35	Improved Representation of Boundary Layer Clouds over the Southeast Pacific in ARW-WRF Using a Modified Tiedtke Cumulus Parameterization Scheme*. <i>Monthly Weather Review</i> , 2011, 139, 3489-3513.	1.4	351
36	The Quasi-Biennial Oscillation in a Double CO2 Climate. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 265-283.	1.7	45

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37	Response of Tropical Cyclone Potential Intensity to a Global Warming Scenario in the IPCC AR4 CGCMs. <i>Journal of Climate</i> , 2010, 23, 1354-1373.	3.2	26
38	The Impact of Global Warming on Marine Boundary Layer Clouds over the Eastern Pacific—A Regional Model Study. <i>Journal of Climate</i> , 2010, 23, 5844-5863.	3.2	46
39	Nonlinear Representation of the Quasi-Biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1886-1904.	1.7	11
40	Empirical estimates of global climate sensitivity: An assessment of strategies using a coupled GCM. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 339-347.	4.3	0
41	QBO influence on extratropical predictive skill. <i>Climate Dynamics</i> , 2008, 31, 987-1000.	3.8	75
42	Mesoscale spectrum of atmospheric motions investigated in a very fine resolution global general circulation model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	112
43	Topographic effects on the solar semidiurnal surface tide simulated in a very fine resolution general circulation model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	11
44	Morphology of Tropical Upwelling in the Lower Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 2360-2374.	1.7	7
45	Numerical Resolution and Modeling of the Global Atmospheric Circulation: A Review of Our Current Understanding and Outstanding Issues. , 2008, , 7-27.		16
46	The South Asian Summer Monsoon and Its Relationship with ENSO in the IPCC AR4 Simulations. <i>Journal of Climate</i> , 2007, 20, 1071-1092.	3.2	353
47	Tropical Cyclone Changes in the Western North Pacific in a Global Warming Scenario. <i>Journal of Climate</i> , 2007, 20, 2378-2396.	3.2	118
48	Effect of Convective Entrainment/Detrainment on the Simulation of the Tropical Precipitation Diurnal Cycle*. <i>Monthly Weather Review</i> , 2007, 135, 567-585.	1.4	130
49	Inferring climate sensitivity from volcanic events. <i>Climate Dynamics</i> , 2007, 28, 481-502.	3.8	29
50	Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	199
51	Explicit global simulation of the mesoscale spectrum of atmospheric motions. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	63
52	The Roles of the Hadley Circulation and Downward Control in Tropical Upwelling. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2740-2757.	1.7	10
53	Local and Global Climate Feedbacks in Models with Differing Climate Sensitivities. <i>Journal of Climate</i> , 2006, 19, 193-209.	3.2	18
54	Relationship between Shortwave Cloud Radiative Forcing and Local Meteorological Variables Compared in Observations and Several Global Climate Models. <i>Journal of Climate</i> , 2006, 19, 4344-4359.	3.2	12

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55	High resolution global modeling of the atmospheric circulation. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 842-856.	4.3	7
56	Climate sensitivity and climate change under strong forcing. <i>Climate Dynamics</i> , 2005, 24, 685-700.	3.8	29
57	The SPARC Intercomparison of Middle-Atmosphere Climatologies. <i>Journal of Climate</i> , 2004, 17, 986-1003.	3.2	187
58	Arctic oscillation response to the 1991 Pinatubo eruption in the SKYHI general circulation model with a realistic quasi-biennial oscillation. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	71
59	Darwin Area Wave Experiment (DAWEX) field campaign to study gravity wave generation and propagation. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	22
60	Longitudinal Variation of the Stratospheric Quasi-Biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 383-402.	1.7	31
61	Nonlinear singular spectrum analysis of the tropical stratospheric wind. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2367-2382.	2.7	13
62	Indications of long-term changes in middle atmosphere transports. <i>Advances in Space Research</i> , 2003, 32, 1675-1684.	2.6	15
63	Tropical Cumulus Convection and Upward-Propagating Waves in Middle-Atmospheric GCMs. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 2765-2782.	1.7	96
64	MIDDLE ATMOSPHERE Semiannual Oscillation. , 2003, , 1336-1341.		0
65	Representation of the quasi-biennial oscillation in the tropical stratospheric wind by nonlinear principal component analysis. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 3-1.	3.3	27
66	Arctic Oscillation response to the 1991 Mount Pinatubo eruption: Effects of volcanic aerosols and ozone depletion. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 28-1.	3.3	210
67	An 18-year time series of OH rotational temperatures and middle atmosphere decadal variations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 1147-1166.	1.6	105
68	On the Quasi-Decadal Modulation of the Stratospheric QBO Period. <i>Journal of Climate</i> , 2002, 15, 2562-2565.	3.2	54
69	The quasi-biennial oscillation. <i>Reviews of Geophysics</i> , 2001, 39, 179-229.	23.0	1,650
70	The Horizontal Kinetic Energy Spectrum and Spectral Budget Simulated by a High-Resolution Troposphere-Stratosphere-Mesosphere GCM. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 329-348.	1.7	131
71	Spontaneous Stratospheric QBO-like Oscillations Simulated by the GFDL SKYHI General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 3271-3292.	1.7	43
72	Free and forced interannual variability of the circulation in the extratropical northern hemisphere middle atmosphere. <i>Geophysical Monograph Series</i> , 2000, , 227-239.	0.1	2

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73	Effects of the stratospheric quasi-biennial oscillation on long-lived greenhouse gases in the troposphere. <i>Journal of Geophysical Research</i> , 2000, 105, 20581-20587.	3.3	21
74	The GCMâ€“Reality Intercomparison Project for SPARC (GRIPS): Scientific Issues and Initial Results. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 781-796.	3.3	146
75	Experiment will examine gravity waves in the middle atmosphere. <i>Eos</i> , 2000, 81, 517.	0.1	3
76	Dynamical coupling of the lower and middle atmosphere historical background to current research. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1999, 61, 73-84.	1.6	19
77	A numerical simulation of the stratospheric ozone quasi-biennial oscillation using a comprehensive general circulation model. <i>Journal of Geophysical Research</i> , 1999, 104, 30525-30557.	3.3	15
78	Simulation of the $\sim 5/3$ mesoscale spectral regime in the GFDL SKYHI General Circulation Model. <i>Geophysical Research Letters</i> , 1999, 26, 843-846.	4.0	42
79	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. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 3829-3846.	1.7	102
80	Kinetic energy spectrum of horizontal motions in middle-atmosphere models. <i>Journal of Geophysical Research</i> , 1999, 104, 27177-27190.	3.3	77
81	Dynamics of the Tropical Middle Atmosphere: A Tutorial Review*. <i>Atmosphere - Ocean</i> , 1998, 36, 319-354.	1.6	31
82	Gravity currents in the environment and the laboratory. <i>Eos</i> , 1998, 79, 71-71.	0.1	1
83	Observations of Tropical Stratospheric Winds before World War II. <i>Bulletin of the American Meteorological Society</i> , 1998, 79, 1367-1371.	3.3	14
84	Effects of an Imposed Quasi-Biennial Oscillation in a Comprehensive Troposphereâ€“Stratosphereâ€“Mesosphere General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 2393-2418.	1.7	70
85	A Very High Resolution General Circulation Model Simulation of the Global Circulation in Austral Winter. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 1107-1116.	1.7	27
86	Observation of an ultraslow large-scale wave near the tropical tropopause. <i>Journal of Geophysical Research</i> , 1997, 102, 13457-13464.	3.3	4
87	Upper atmosphere tidal oscillations due to latent heat release in the tropical troposphere. <i>Annales Geophysicae</i> , 1997, 15, 1165-1175.	1.6	73
88	The Role of Parameterized Drag in a Troposphere-Stratosphere-Mesosphere General Circulation Model. , 1997, , 337-350.		8
89	Comprehensive Model Simulation of Thermal Tides in the Martian Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1996, 53, 1290-1326.	1.7	248
90	Comprehensive meteorological modelling of the middle atmosphere: a tutorial review. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1996, 58, 1591-1627.	0.9	51

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91	Climatology of the SKYHI Troposphere-Stratosphere-Mesosphere General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 5-43.	1.7	153
92	Interannual Variability in the Northern Hemisphere Winter Middle Atmosphere in Control and Perturbed Experiments with the GFDL SKYHI General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 44-66.	1.7	67
93	High-resolution radiosonde data offer new prospects for research. <i>Eos</i> , 1995, 76, 497-497.	0.1	24
94	Comprehensive simulation of the middle atmospheric climate: some recent results. <i>Climate Dynamics</i> , 1995, 11, 223-241.	3.8	13
95	Comprehensive simulation of the middle atmospheric climate: some recent results. <i>Climate Dynamics</i> , 1995, 11, 223-241.	3.8	4
96	Equilibrium dynamics in a forced-dissipative f-plane shallow-water system. <i>Journal of Fluid Mechanics</i> , 1994, 280, 369-394.	3.4	49
97	A general circulation model simulation of El Nino effects in the extratropical northern hemisphere stratosphere. <i>Geophysical Research Letters</i> , 1993, 20, 1803-1806.	4.0	17
98	Middle Atmospheric Traveling Waves Forced by Latent and Convective Heating. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 2180-2200.	1.7	76
99	An Examination of Observed Southern Oscillation Effects in the Northern Hemisphere Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 3468-3474.	1.7	73
100	Experiments on Tropical Stratospheric Mean-Wind Variations in a Spectral General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 2464-2483.	1.7	21
101	Climatological statistics of stratospheric inertia-gravity waves deduced from historical rocketsonde wind and temperature data. <i>Journal of Geophysical Research</i> , 1991, 96, 20831-20839.	3.3	74
102	Interhemispheric Asymmetry and Annual Synchronization of the Ozone Quasi-biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 1019-1025.	1.7	46
103	A detailed examination of the extratropical response to Tropical El Niño/Southern Oscillation events. <i>Journal of Climatology</i> , 1988, 8, 67-86.	0.7	54
104	General Circulation Model Simulation of the Semiannual Oscillation of the Tropical Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 3212-3235.	1.7	68
105	Equatorial Atlantic sea surface temperature variations: Research note. <i>Atmosphere - Ocean</i> , 1988, 26, 668-678.	1.6	3
106	General circulation model simulation of the structure and energetics of atmospheric normal modes. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1987, 39A, 435-459.	1.7	6
107	A Review of Observations of the Quasi-Biennial and Semiannual Oscillations of Wind and Temperature in the Tropical Middle Atmosphere. , 1987, , 19-29.		2
108	Theory and observations of the short-period normal mode oscillations of the atmosphere. <i>Journal of Geophysical Research</i> , 1986, 91, 11867-11875.	3.3	47

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109	Simulation of solar tides in the Canadian Climate Centre general circulation model. <i>Journal of Geophysical Research</i> , 1986, 91, 11877-11896.	3.3	37
110	El Niño/Southern Oscillation Events and Their Associated Midlatitude Teleconnections 1531-1841. <i>Bulletin of the American Meteorological Society</i> , 1986, 67, 1354-1361.	3.3	39
111	Dynamics of the Stratospheric Semiannual Oscillation. <i>Journal of the Meteorological Society of Japan</i> , 1986, 64, 227-244.	1.8	33
112	The westerly acceleration phase of the stratospheric quasi-biennial oscillation as revealed in FGGE analyses: Research note. <i>Atmosphere - Ocean</i> , 1985, 23, 188-192.	1.6	3
113	Atmospheric forcing of interannual variability in the northeast Pacific Ocean: Connections with El Niño. <i>Journal of Geophysical Research</i> , 1985, 90, 857-868.	3.3	164
114	A possible relationship between tropical ocean temperatures and the observed amplitude of the atmospheric (1, 1) Rossby normal mode. <i>Journal of Geophysical Research</i> , 1985, 90, 8071-8074.	3.3	13
115	Evidence for a Normal Mode Kelvin Wave in the Atmosphere. <i>Journal of the Meteorological Society of Japan</i> , 1984, 62, 308-311.	1.8	10
116	Calculation of the effect of stratospheric mean wind variations on the solar semidiurnal barometric oscillation. <i>Atmosphere - Ocean</i> , 1984, 22, 48-66.	1.6	4
117	Long-period variations in the solar semidiurnal atmospheric tide. <i>Journal of Geophysical Research</i> , 1984, 89, 11705-11710.	3.3	28
118	Mean Wind Evolution through the Quasi-Biennial Cycle in the Tropical Lower Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 2113-2125.	1.7	65
119	Aspects of wave behaviour in the mid- and upper troposphere of the southern Hemisphere. <i>Atmosphere - Ocean</i> , 1983, 21, 40-54.	1.6	18
120	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. <i>Journals of the Atmospheric Sciences</i> , 1983, 40, 2432-2443.	1.7	23
121	Some Features of the Climatology of the Northern Hemisphere Stratosphere Revealed by NMC Upper Atmosphere Analyses. <i>Journals of the Atmospheric Sciences</i> , 1982, 39, 2737-2749.	1.7	26
122	Rocketsonde observations of the mesospheric semiannual oscillation at Kwajalein. <i>Atmosphere - Ocean</i> , 1982, 20, 281-286.	1.6	62
123	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. <i>Journals of the Atmospheric Sciences</i> , 1982, 39, 1881-1886.	1.7	3
124	A note on the observed diurnal and semidiurnal rainfall variations. <i>Journal of Geophysical Research</i> , 1981, 86, 12122-12126.	3.3	38
125	Latent Heat Release as a Possible Forcing Mechanism for Atmospheric Tides. <i>Monthly Weather Review</i> , 1981, 109, 3-17.	1.4	84
126	The vertical structure of the quasi-biennial oscillation: Observations and theory. <i>Atmosphere - Ocean</i> , 1981, 19, 236-250.	1.6	26

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127	Observations of the solar diurnal and semidiurnal surface pressure oscillations in Canada. Atmosphere - Ocean, 1980, 18, 89-97.	1.6	5
128	The geographical distribution of the solar semidiurnal surface pressure oscillation. Journal of Geophysical Research, 1980, 85, 1945-1949.	3.3	17
129	Aspects of Mesospheric Simulation in a Comprehensive General Circulation Model. Geophysical Monograph Series, 0, , 255-264.	0.1	2