

Kevin Hamilton

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

6,603
citations

42
h-index

79
g-index

138
ext. papers

7,190
ext. citations

4.2
avg, IF

5.8
L-index

#	Paper	IF	Citations
130	The quasi-biennial oscillation. <i>Reviews of Geophysics</i> , 2001 , 39, 179-229	23.1	1337
129	The South Asian Summer Monsoon and Its Relationship with ENSO in the IPCC AR4 Simulations. <i>Journal of Climate</i> , 2007 , 20, 1071-1092	4.4	316
128	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	2.4	250
127	Comprehensive Model Simulation of Thermal Tides in the Martian Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1996 , 53, 1290-1326	2.1	231
126	Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models. <i>Journal of Geophysical Research</i> , 2006 , 111,		180
125	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		175
124	The SPARC Intercomparison of Middle-Atmosphere Climatologies. <i>Journal of Climate</i> , 2004 , 17, 986-1003	4.4	171
123	Atmospheric forcing of interannual variability in the northeast Pacific Ocean: Connections with El Niño. <i>Journal of Geophysical Research</i> , 1985 , 90, 857		146
122	Climatology of the SKYHI Troposphere-Stratosphere-Mesosphere General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1995 , 52, 5-43	2.1	139
121	The GCM Reality Intercomparison Project for SPARC (GRIPS): Scientific Issues and Initial Results. <i>Bulletin of the American Meteorological Society</i> , 2000 , 81, 781-796	6.1	129
120	Effect of Convective Entrainment/Detrainment on the Simulation of the Tropical Precipitation Diurnal Cycle*. <i>Monthly Weather Review</i> , 2007 , 135, 567-585	2.4	117
119	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	2.1	114
118	An unexpected disruption of the atmospheric quasi-biennial oscillation. <i>Science</i> , 2016 , 353, 1424-1427	33.3	98
117	Tropical Cyclone Changes in the Western North Pacific in a Global Warming Scenario. <i>Journal of Climate</i> , 2007 , 20, 2378-2396	4.4	97
116	Mesoscale spectrum of atmospheric motions investigated in a very fine resolution global general circulation model. <i>Journal of Geophysical Research</i> , 2008 , 113,		96
115	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	4.4	95
114	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	2	90

113	Tropical Cumulus Convection and Upward-Propagating Waves in Middle-Atmospheric GCMs. <i>Journals of the Atmospheric Sciences</i> , 2003 , 60, 2765-2782	2.1	89
112	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	2.1	89
111	Weakened stratospheric quasi-biennial oscillation driven by increased tropical mean upwelling. <i>Nature</i> , 2013 , 497, 478-81	50.4	87
110	Latent Heat Release as a Possible Forcing Mechanism for Atmospheric Tides. <i>Monthly Weather Review</i> , 1981 , 109, 3-17	2.4	76
109	Cloud base and top heights in the Hawaiian region determined with satellite and ground-based measurements. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	73
108	Kinetic energy spectrum of horizontal motions in middle-atmosphere models. <i>Journal of Geophysical Research</i> , 1999 , 104, 27177-27190		68
107	Effects of an Imposed Quasi-Biennial Oscillation in a Comprehensive Troposphere-Stratosphere-Mesosphere General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 2393-2418	2.1	67
106	Middle Atmospheric Traveling Waves Forced by Latent and Convective Heating. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 2180-2200	2.1	67
105	An Examination of Observed Southern Oscillation Effects in the Northern Hemisphere Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 3468-3474	2.1	67
104	QBO influence on extratropical predictive skill. <i>Climate Dynamics</i> , 2008 , 31, 987-1000	4.2	66
103	Upper atmosphere tidal oscillations due to latent heat release in the tropical troposphere. <i>Annales Geophysicae</i> , 1997 , 15, 1165-1175	2	65
102	Climatological statistics of stratospheric inertia-gravity waves deduced from historical rocketsonde wind and temperature data. <i>Journal of Geophysical Research</i> , 1991 , 96, 20831		63
101	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	2.1	62
100	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		61
99	Explicit global simulation of the mesoscale spectrum of atmospheric motions. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	59
98	General Circulation Model Simulation of the Semiannual Oscillation of the Tropical Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1988 , 45, 3212-3235	2.1	59
97	Rocketsonde observations of the mesospheric semiannual oscillation at Kwajalein. <i>Atmosphere - Ocean</i> , 1982 , 20, 281-286	1.5	57
96	Overview of experiment design and comparison of models participating in phase 1 of the SPARC Quasi-Biennial Oscillation initiative (QBOi). <i>Geoscientific Model Development</i> , 2018 , 11, 1009-1032	6.3	57

95	Mean Wind Evolution through the Quasi-Biennial Cycle in the Tropical Lower Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 1984 , 41, 2113-2125	2.1	54
94	A detailed examination of the extratropical response to Tropical El Niño/Southern Oscillation events. <i>Journal of Climatology</i> , 1988 , 8, 67-86		51
93	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	4.4	48
92	On the Quasi-Decadal Modulation of the Stratospheric QBO Period. <i>Journal of Climate</i> , 2002 , 15, 2562-2565	4.4	47
91	Configuration and Evaluation of the WRF Model for the Study of Hawaiian Regional Climate. <i>Monthly Weather Review</i> , 2012 , 140, 3259-3277	2.4	45
90	Comprehensive meteorological modelling of the middle atmosphere: a tutorial review. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1996 , 58, 1591-1627		44
89	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	4.4	43
88	Equilibrium dynamics in a forced-dissipative f-plane shallow-water system. <i>Journal of Fluid Mechanics</i> , 1994 , 280, 369-394	3.7	42
87	Representation of the tropical stratospheric zonal wind in global atmospheric reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6681-6699	6.8	41
86	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	4.4	41
85	The Quasi-Biennial Oscillation in a Double CO ₂ Climate. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 265-283	2.1	39
84	Spontaneous Stratospheric QBO-like Oscillations Simulated by the GFDL SKYHI General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2001 , 58, 3271-3292	2.1	38
83	Simulation of the 5/3 mesoscale spectral regime in the GFDL SKYHI General Circulation Model. <i>Geophysical Research Letters</i> , 1999 , 26, 843-846	4.9	37
82	Theory and observations of the short-period normal mode oscillations of the atmosphere. <i>Journal of Geophysical Research</i> , 1986 , 91, 11867		37
81	Interhemispheric Asymmetry and Annual Synchronization of the Ozone Quasi-biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 1989 , 46, 1019-1025	2.1	36
80	A note on the observed diurnal and semidiurnal rainfall variations. <i>Journal of Geophysical Research</i> , 1981 , 86, 12122		34
79	Dynamics of the Stratospheric Semiannual Oscillation. <i>Journal of the Meteorological Society of Japan</i> , 1986 , 64, 227-244	2.8	32
78	Simulation of solar tides in the Canadian Climate Centre general circulation model. <i>Journal of Geophysical Research</i> , 1986 , 91, 11877		32

77	Dynamical Downscaling of the Climate for the Hawaiian Islands. Part I: Present Day. <i>Journal of Climate</i> , 2016 , 29, 3027-3048	4.4	29
76	Inferring climate sensitivity from volcanic events. <i>Climate Dynamics</i> , 2007 , 28, 481-502	4.2	28
75	El Niño/Southern Oscillation Events and Their Associated Midlatitude Teleconnections 1531-1841. <i>Bulletin of the American Meteorological Society</i> , 1986 , 67, 1354-1361	6.1	27
74	Climate sensitivity and climate change under strong forcing. <i>Climate Dynamics</i> , 2005 , 24, 685-700	4.2	26
73	Dynamics of the Tropical Middle Atmosphere: A Tutorial Review* Based on an invited tutorial lecture at the Canadian Middle Atmosphere Modelling Project Summer School held in August 1997 at Cornwall, Ontario.. <i>Atmosphere - Ocean</i> , 1998 , 36, 319-354	1.5	25
72	Long-period variations in the solar semidiurnal atmospheric tide. <i>Journal of Geophysical Research</i> , 1984 , 89, 11705		25
71	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	2.1	24
70	Longitudinal Variation of the Stratospheric Quasi-Biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 383-402	2.1	24
69	The vertical structure of the quasi-biennial oscillation: Observations and theory. <i>Atmosphere - Ocean</i> , 1981 , 19, 236-250	1.5	24
68	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	2.1	24
67	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		23
66	100 Years of Progress in Understanding the Stratosphere and Mesosphere. <i>Meteorological Monographs</i> , 2019 , 59, 27.1-27.62	5.7	22
65	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	4.4	21
64	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	2.1	21
63	Darwin Area Wave Experiment (DAWEX) field campaign to study gravity wave generation and propagation. <i>Journal of Geophysical Research</i> , 2004 , 109,		20
62	Evaluation of the Quasi-Biennial Oscillation in global climate models for the SPARC QBO-initiative. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 ,	6.4	19
61	Response of the Quasi-Biennial Oscillation to a warming climate in global climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 ,	6.4	19
60	Interannual Variations of Stratospheric Water Vapor in MLS Observations and Climate Model Simulations. <i>Journals of the Atmospheric Sciences</i> , 2014 , 71, 4072-4085	2.1	19

59	High-resolution radiosonde data offer new prospects for research. <i>Eos</i> , 1995 , 76, 497-497	1.5	19
58	Local and Global Climate Feedbacks in Models with Differing Climate Sensitivities. <i>Journal of Climate</i> , 2006 , 19, 193-209	4.4	16
57	Experiments on Tropical Stratospheric Mean-Wind Variations in a Spectral General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 1992 , 49, 2464-2483	2.1	16
56	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		15
55	A general circulation model simulation of El Nino effects in the extratropical northern hemisphere stratosphere. <i>Geophysical Research Letters</i> , 1993 , 20, 1803-1806	4.9	15
54	Aspects of wave behaviour in the mid- and upper troposphere of the southern Hemisphere. <i>Atmosphere - Ocean</i> , 1983 , 21, 40-54	1.5	15
53	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	2	14
52	First Successful Hindcasts of the 2016 Disruption of the Stratospheric Quasi-biennial Oscillation. <i>Geophysical Research Letters</i> , 2018 , 45, 1602-1610	4.9	13
51	Indications of long-term changes in middle atmosphere transports. <i>Advances in Space Research</i> , 2003 , 32, 1675-1684	2.4	13
50	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		13
49	Comprehensive simulation of the middle atmospheric climate: some recent results. <i>Climate Dynamics</i> , 1995 , 11, 223-241	4.2	13
48	The geographical distribution of the solar semidiurnal surface pressure oscillation. <i>Journal of Geophysical Research</i> , 1980 , 85, 1945		13
47	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	4.4	12
46	Nonlinear singular spectrum analysis of the tropical stratospheric wind. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003 , 129, 2367-2382	6.4	11
45	Observations of Tropical Stratospheric Winds before World War II. <i>Bulletin of the American Meteorological Society</i> , 1998 , 79, 1367-1371	6.1	11
44	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		11
43	Numerical Resolution and Modeling of the Global Atmospheric Circulation: A Review of Our Current Understanding and Outstanding Issues 2008 , 7-27		11
42	Physical Processes Controlling the Tide in the Tropical Lower Atmosphere Investigated Using a Comprehensive Numerical Model. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 2467-2487	2.1	10

41	Nonlinear Representation of the Quasi-Biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 1886-1904	2.1	10
40	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	2.1	10
39	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,		10
38	Representation of the equatorial stratopause semiannual oscillation in global atmospheric reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9115-9133	6.8	10
37	The Roles of the Hadley Circulation and Downward Control in Tropical Upwelling. <i>Journals of the Atmospheric Sciences</i> , 2006 , 63, 2740-2757	2.1	8
36	What we can Learn from General Circulation Models about the Spectrum of Middle Atmospheric Motions 1993 , 161-174		8
35	Is there a stratospheric pacemaker controlling the daily cycle of tropical rainfall?. <i>Geophysical Research Letters</i> , 2017 , 44, 1998	4.9	7
34	Morphology of Tropical Upwelling in the Lower Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 2360-2374	2.1	7
33	Evidence for a Normal Mode Kelvin Wave in the Atmosphere. <i>Journal of the Meteorological Society of Japan</i> , 1984 , 62, 308-311	2.8	7
32	Modeling the Stratosphere's "Heartbeat". <i>Eos</i> , 2015 , 96,	1.5	7
31	Teleconnections of the Quasi-Biennial Oscillation in a multi-model ensemble of QBO-resolving models. <i>Quarterly Journal of the Royal Meteorological Society</i> ,	6.4	7
30	The Effects of a Well-Resolved Stratosphere on the Simulated Boreal Winter Circulation in a Climate Model. <i>Journals of the Atmospheric Sciences</i> , 2019 , 76, 1203-1226	2.1	7
29	Prediction of the quasi-biennial oscillation with a multi-model ensemble of QBO-resolving models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 ,	6.4	6
28	Sereno Bishop, Rollo Russell, Bishop's Ring and the Discovery of the Krakatoa Easterlies <i>Atmosphere - Ocean</i> , 2012 , 50, 169-175	1.5	6
27	ENSO Modulation of the QBO: Results from MIROC Models with and without Nonorographic Gravity Wave Parameterization. <i>Journals of the Atmospheric Sciences</i> , 2019 , 76, 3893-3917	2.1	6
26	A note on apparent solar time and the seasonal cycle of atmospheric solar tides. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 2310-2314	6.4	5
25	Monitoring and projecting snow on Hawaii Island. <i>Earthis Future</i> , 2017 , 5, 436-448	7.9	5
24	High resolution global modeling of the atmospheric circulation. <i>Advances in Atmospheric Sciences</i> , 2006 , 23, 842-856	2.9	5

23	. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1987 , 39A, 435-459	2	5
22	The Role of Parameterized Drag in a Troposphere-Stratosphere-Mesosphere General Circulation Model 1997 , 337-350		5
21	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	4.4	4
20	Observation of an ultraslow large-scale wave near the tropical tropopause. <i>Journal of Geophysical Research</i> , 1997 , 102, 13457-13464		4
19	Calculation of the effect of stratospheric mean wind variations on the solar semidiurnal barometric oscillation. <i>Atmosphere - Ocean</i> , 1984 , 22, 48-66	1.5	4
18	Observations of the solar diurnal and semidiurnal surface pressure oscillations in Canada. <i>Atmosphere - Ocean</i> , 1980 , 18, 89-97	1.5	4
17	The SPARC Quasi-Biennial Oscillation initiative. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 ,	6.4	3
16	Experiment will examine gravity waves in the middle atmosphere. <i>Eos</i> , 2000 , 81, 517	1.5	3
15	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	1.5	3
14	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	2.1	3
13	Representation of the Tropical Stratospheric Zonal Wind in Global Atmospheric Reanalyses 2016 ,		2
12	Exploring the prehistory of the equatorial stratosphere with observations following major volcanic eruptions. <i>Weather</i> , 2018 , 73, 154-159	0.9	2
11	MIDDLE ATMOSPHERE Semiannual Oscillation 2015 , 26-29		2
10	Aspects of Mesospheric Simulation in a Comprehensive General Circulation Model. <i>Geophysical Monograph Series</i> , 2013 , 255-264	1.1	2
9	Free and Forced Interannual Variability of the Circulation in the Extratropical Northern Hemisphere Middle Atmosphere. <i>Geophysical Monograph Series</i> , 2000 , 227-239	1.1	2
8	Equatorial Atlantic sea surface temperature variations: Research note. <i>Atmosphere - Ocean</i> , 1988 , 26, 668-678	1.5	2
7	Comprehensive simulation of the middle atmospheric climate: some recent results 1995 , 11, 223		2
6	A Review of Observations of the Quasi-Biennial and Semiannual Oscillations of Wind and Temperature in the Tropical Middle Atmosphere 1987 , 19-29		2

5	Overview of experiment design and comparison of models participating in phase 1 of the SPARC Quasi-Biennial Oscillation initiative (QBOi) 2017 ,		1
4	Gravity Currents in the Environment and the Laboratory. <i>Eos</i> , 1998 , 79, 71-71	1.5	1
3	Discovery of a lunar air temperature tide over the ocean: a diagnostic of air-sea coupling. <i>Npj Climate and Atmospheric Science</i> , 2018 , 1,	8	1
2	Empirical estimates of global climate sensitivity: An assessment of strategies using a coupled GCM. <i>Advances in Atmospheric Sciences</i> , 2008 , 25, 339-347	2.9	
1	MIDDLE ATMOSPHERE Semiannual Oscillation 2003 , 1336-1341		