V Lynn Harvey

List of Publications by Citations

86 papers	3,064 citations	29 h-index	54 g-index
104 ext. papers	3,435 ext. citations	4.2 avg, IF	4.62 L-index

#	Paper	IF	Citations
86	Sensitivity of chemical tracers to meteorological parameters in the MOZART-3 chemical transport model. *Journal of Geophysical Research*, **2007**, 112,		338
85	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems. *Atmospheric Chemistry and Physics*, **2017**, 17, 1417-1452	6.8	201
84	Stratospheric effects of energetic particle precipitation in 2003–2004. *Geophysical Research Letters*, **2005**, 32,	4.9	200
83	Energetic particle precipitation effects on the Southern Hemisphere stratosphere in 1992–2005. *Journal of Geophysical Research*, **2007**, 112,		153
82	Numerical simulations of the three-dimensional distribution of meteoric dust in the mesosphere and upper stratosphere. *Journal of Geophysical Research*, **2008**, 113,		136
81	Solar occultation satellite data and derived meteorological products: Sampling issues and comparisons with Aura Microwave Limb Sounder. *Journal of Geophysical Research*, **2007**, 112,		132
80	Enhanced NOx in 2006 linked to strong upper stratospheric Arctic vortex. *Geophysical Research Letters*, **2006**, 33, n/a-n/a	4.9	132
79	NOx descent in the Arctic middle atmosphere in early 2009. *Geophysical Research Letters*, **2009**, 36,	4.9	130
78	A climatology of stratospheric polar vortices and anticyclones. *Journal of Geophysical Research*, **2002**, 107, ACL 10-1		102
77	High Resolution Dynamics Limb Sounder: Experiment overview, recovery, and validation of initial temperature data. *Journal of Geophysical Research*, **2008**, 113,		98
76	On the verification of the quality of SABER temperature, geopotential height, and wind fields by comparison with Met Office assimilated analyses. *Journal of Geophysical Research*, **2003**, 108,		92
75	Stratosphere-mesosphere coupling during stratospheric sudden warming events. *Advances in Space Research*, **2014**, 53, 1265-1289	2.4	63
74	A Climatology of the Aleutian High. *Journals of the Atmospheric Sciences*, **1996**, 53, 2088-2102	2.1	56
73	Satellite observations of ozone in the upper mesosphere. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 5803-5821	4.4	55
72	A climatology of elevated stratopause events in the whole atmosphere community climate model. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 1234-1246	4.4	50
71	Simulation of energetic particle precipitation effects during the 2003–2004 Arctic winter. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5035-5048	2.6	45
70	2002-2003 Arctic ozone loss deduced from POAM III satellite observations and the SLIMCAT chemical transport model. *Atmospheric Chemistry and Physics*, **2005**, 5, 597-609	6.8	43

69	HEPPA-II model–measurement intercomparison project: EPP indirect effects during the dynamically perturbed NH winter 2008–2009. *Atmospheric Chemistry and Physics*, **2017**, 17, 3573-3604	6.8	41
68	The Nimbus 7 LIMS version 6 radiance conditioning and temperature retrieval methods and results. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 86, 395-424	2.1	39
67	The solar proton events in 2012 as observed by MIPAS. *Geophysical Research Letters*, **2013**, 40, 2339-2343	4.9	37
66	The influence of major sudden stratospheric warming and elevated stratopause events on the effects of energetic particle precipitation in WACCM. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 11,636-11,646	4.4	36
65	Middle atmospheric changes caused by the January and March 2012 solar proton events. *Atmospheric Chemistry and Physics*, **2014**, 14, 1025-1038	6.8	35
64	Nighttime secondary ozone layer during major stratospheric sudden warmings in specified-dynamics WACCM. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 8346-8358	4.4	34
63	Gravity wave activity in the Arctic stratosphere and mesosphere during the 2007–2008 and 2008–2009 stratospheric sudden warming events. *Journal of Geophysical Research*, **2010**, 115,		34
62	Intra-seasonal variability of polar mesospheric clouds due to inter-hemispheric coupling. *Geophysical Research Letters*, **2009**, 36,	4.9	34
61	A multi tracer analysis of thermosphere to stratosphere descent triggered by the 2013 Stratospheric Sudden Warming. *Geophysical Research Letters*, **2014**, 41, 5216-5222	4.9	33
60	Quantifying Arctic ozone loss during the 2004–2005 winter using satellite observations and a chemical transport model. *Journal of Geophysical Research*, **2007**, 112,		33
59	Breakdown of potential vorticity–based equivalent latitude as a vortex-centered coordinate in the polar winter mesosphere. *Journal of Geophysical Research*, **2009**, 114,		30
58	Initial validation of ozone measurements from the High Resolution Dynamics Limb Sounder. *Journal of Geophysical Research*, **2008**, 113,		30
57	On the seasonal onset of polar mesospheric clouds and the breakdown of the stratospheric polar vortex in the Southern Hemisphere. *Journal of Geophysical Research*, **2011**, 116,		28
56	Modelling the effect of denitrification on polar ozone depletion for Arctic winter 2004/2005. *Atmospheric Chemistry and Physics*, **2011**, 11, 6559-6573	6.8	28
55	Is a high-altitude meteorological analysis necessary to simulate thermosphere-stratosphere coupling?. *Geophysical Research Letters*, **2015**, 42, 8225-8230	4.9	27
54	Rayleigh lidar observations of reduced gravity wave activity during the formation of an elevated stratopause in 2004 at Chatanika, Alaska (65°N, 147°W). *Journal of Geophysical Research*, **2010**, 115,		27
53	Global climatology of inertial instability and Rossby wave breaking in the stratosphere. *Journal of Geophysical Research*, **2005**, 110, n/a-n/a		26
52	Tropical aerosol in the Aleutian High. *Journal of Geophysical Research*, **1999**, 104, 6281-6290		25

51	On the distribution of ozone in stratospheric anticyclones. *Journal of Geophysical Research*, **2004**, 109,		24
50	Validation of Polar Ozone and Aerosol Measurement (POAM) III version 4 stratospheric water vapor. *Journal of Geophysical Research*, **2006**, 111,		23
49	Lidar Observations of Stratospheric Gravity Waves From 2011 to 2015 at McMurdo (77.84°S, 166.69°E), Antarctica: 2. Potential Energy Densities, Lognormal Distributions, and Seasonal Variations. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7910-7934	4.4	20
48	On the onset of polar mesospheric cloud seasons as observed by SBUV. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		20
47	High Resolution Dynamics Limb Sounder observations of the gravity wave-driven elevated stratopause in 2006. *Journal of Geophysical Research*, **2012**, 117,		20
46	Local and Remote Planetary Wave Effects on Polar Mesospheric Clouds in the Northern Hemisphere in 2014. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 5149-5162	4.4	19
45	Stratospheric Aerosols, Polar Stratospheric Clouds, and Polar Ozone Depletion After the Mount Calbuco Eruption in 2015. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,308	4.4	19
44	A climatology of cold air outbreaks over North America: WACCM and ERA-40 comparison and analysis. *Journal of Geophysical Research*, **2011**, 116,		18
43	Deep Ionospheric Hole Created by Sudden Stratospheric Warming in the Nighttime Ionosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7621-7633	2.6	17
42	A climatology of stratopause temperature and height in the polar vortex and anticyclones. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		16
41	A climatology of polar winter stratopause warmings and associated planetary wave breaking. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 4168-4180	4.4	15
40	A climatology of the stratopause in WACCM and the zonally asymmetric elevated stratopause. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 2241-2254	4.4	15
39	Mean winds in the tropical stratosphere and mesosphere during January 1993, March 1994, and August 1994. *Journal of Geophysical Research*, **1997**, 102, 26033-26052		15
38	Longitudinally Dependent Low-Latitude Ionospheric Disturbances Linked to the Antarctic Sudden Stratospheric Warming of September 2019. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028199	2.6	14
37	A climatology of planetary wave-driven mesospheric inversion layers in the extratropical winter. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 399-413	4.4	13
36	Global observations of HNO3 from the High Resolution Dynamics Limb Sounder (HIRDLS): First results. *Journal of Geophysical Research*, **2008**, 113,		12
35	SAGE III observations of Arctic polar stratospheric clouds □December 2002. *Geophysical Research Letters*, **2003**, 30, n/a-n/a	4.9	12
34	Large-scale chemical evolution of the Arctic vortex during the 1999/2000 winter: HALOE/POAM III Lagrangian photochemical modeling for the SAGE III□Ozone Loss and Validation Experiment (SOLVE) campaign. *Journal of Geophysical Research*, **2002**, 107, SOL 60-1-SOL 60-26		12

33	Atmospheric Effects of >30-keV Energetic Electron Precipitation in the Southern Hemisphere Winter During 2003. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8138-8153	2.6	12
32	New AIM/CIPS global observations of gravity waves near 50–55 km. *Geophysical Research Letters*, **2017**, 44, 7044-7052	4.9	11
31	Atmospheric effects of energetic particle precipitation in the Arctic winter 1978–1979 revisited. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		11
30	Low-ozone pockets observed by EOS-MLS. *Journal of Geophysical Research*, **2008**, 113,		11
29	On the Upward Extension of the Polar Vortices Into the Mesosphere. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 9171-9191	4.4	11
28	Front-like behavior in the Arctic wintertime upper stratosphere and lower mesosphere. *Journal of Geophysical Research*, **2011**, 116,		10
27	Simulated solar cycle effects on the middle atmosphere: WACCM3 Versus WACCM4. *Journal of Advances in Modeling Earth Systems*, **2015**, 7, 806-822	7.1	8
26	Chemical definition of the mesospheric polar vortex. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 10,166	4.4	8
25	Observations of Reduced Turbulence and Wave Activity in the Arctic Middle Atmosphere Following the January 2015 Sudden Stratospheric Warming. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 13259-13276	4.4	7
24	Effects of the September 2005 Solar Flares and Solar Proton Events on the Middle Atmosphere in WACCM. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5747-5763	2.6	6
23	Role of Wind Filtering and Unbalanced Flow Generation in Middle Atmosphere Gravity Wave Activity at Chatanika Alaska. *Atmosphere*, **2017**, 8, 27	2.7	6
22	Beware of Inertial Instability Masquerading as Gravity Waves in Stratospheric Temperature Perturbations. *Geophysical Research Letters*, **2019**, 46, 1740-1745	4.9	5
21	Extreme stratospheric springs and their consequences for the onset of polar mesospheric clouds. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2015**, 132, 74-81	2	5
20	Sudden Stratospheric Warming Impacts on the Ionosphere–Thermosphere System. *Geophysical Monograph Series*, **2021**, 369-400	1.1	5
19	Southern tropical upper tropospheric zonal ozone wave-1 from SAGE II observations (1985–2002). *Journal of Geophysical Research*, **2006**, 111,		4
18	Observations of Stratospheric Gravity Waves Over Europe on 12 January 2016: The Role of the Polar Night Jet. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032893	4.4	4
17	Transport of Nitric Oxide Via Lagrangian Coherent Structures Into the Top of the Polar Vortex. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD034523	4.4	4
16	Evaluation of the Mesospheric Polar Vortices in WACCM. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 10626-10645	4.4	4

15	Two- and three-dimensional structures of the descent of mesospheric trace constituents after the 2013 sudden stratospheric warming elevated stratopause event. *Atmospheric Chemistry and Physics* , **2021**, 21, 14059-14077	6.8	3
14	Modeling and mechanisms of polar winter upper stratosphere/lower mesosphere disturbances in WACCM. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 7635-7647	4.4	2
13	First Lidar Observations of Quasi-Biennial Oscillation-Induced Interannual Variations of Gravity Wave Potential Energy Density at McMurdo via a Modulation of the Antarctic Polar Vortex. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032866	4.4	2
12	Residual temperature bias effects in stratospheric species distributions from LIMS. *Atmospheric Measurement Techniques*, **2021**, 14, 2185-2199	4	2
11	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems **2016**,		2
10	Middle atmospheric changes caused by the January and March 2012 solar proton events		1
9	Tidal Variations in the Mesosphere and Lower Thermosphere Before, During, and After the 2009 Sudden Stratospheric Warming. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028827	2.6	1
8	Effects of polar stratospheric clouds in the Nimbus 7 LIMS Version 6 data set. *Atmospheric Measurement Techniques*, **2016**, 9, 2927-2946	4	1
7	On the consistency of HNO and NO in the Aleutian High region from the Nimbus 7 LIMS Version 6 data set. *Atmospheric Measurement Techniques*, **2018**, 11, 3611-3626	4	1
6	Lower Thermospheric Material Transport via Lagrangian Coherent Structures. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028834	2.6	1
5	Intercomparison of middle atmospheric meteorological analyses for the Northern Hemisphere winter 20092010. *Atmospheric Chemistry and Physics*, **2021**, 21, 17577-17605	6.8	1
4	Impact of Strong and Weak Stratospheric Polar Vortices on the Mesosphere and Lower Thermosphere. *Geophysical Research Letters*, **2022**, 49,	4.9	1
3	Troposphere-Mesosphere Coupling by Convectively Forced Gravity Waves During Southern Hemisphere Monsoon Season as Viewed by AIM/CIPS. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029734	2.6	0
2	Impact of September 2019 Antarctic Sudden Stratospheric Warming on Mid-Latitude Ionosphere and Thermosphere Over North America and Europe. *Geophysical Research Letters*, **2021**, 48, e2021GL094517	4.9	0
1	Technical note: LIMS observations of lower stratospheric ozone in the southern polar springtime of 1978. *Atmospheric Chemistry and Physics*, **2020**, 20, 3663-3668	6.8	