Gary R Swenson

List of Publications by Year
in descending order

38 papers	1,311 citations	304368 22 h-index	344852 36 g-index
42 all docs	42 docs citations	42 times ranked	931 citing authors

#	Article	IF	Citations
1	The Ionospheric Connection Explorer Mission: Mission Goals and Design. Space Science Reviews, 2018, 214, 1.	3.7	152
2	Analytical models for the responses of the mesospheric OH* and Na layers to atmospheric gravity waves. Journal of Geophysical Research, 1998, 103, 6271-6294.	3.3	143
3	A modeling study of O2and OH airglow perturbations induced by atmospheric gravity waves. Journal of Geophysical Research, 2003, 108, .	3.3	87
4	A multidiagnostic investigation of the mesospheric bore phenomenon. Journal of Geophysical Research, 2003, 108, .	3.3	83
5	Gravity wave propagation and dissipation from the stratosphere to the lower thermosphere. Journal of Geophysical Research, 2009, 114, .	3.3	63
6	A model for calculating acoustic gravity wave energy and momentum flux in the mesosphere from OH airglow. Geophysical Research Letters, 1998, 25, 477-480.	1.5	55
7	Seasonal variations of the gravity wave momentum flux in the Antarctic mesosphere and lower thermosphere. Journal of Geophysical Research, 2004, 109, .	3.3	52
8	O(¹S), OH, and O₂(b) airglow layer perturbations due to AGWs and their implied effects on the atmosphere. Journal of Geophysical Research, 2007, 112, .	3.3	51
9	First measurement of horizontal wind and temperature in the lower thermosphere (105â€“140Âkm) with a Na Lidar at Andes Lidar Observatory. Geophysical Research Letters, 2016, 43, 2374-2380.	1.5	48
10	Characteristics of quasi-monochromatic gravity waves observed with Na lidar in the mesopause region at Starfire Optical Range, NM. Geophysical Research Letters, 2002, 29, 22-1-22-4.	1.5	47
11	Climatology of short-period gravity waves observed over northern Australia during the Darwin Area Wave Experiment (DAWEX) and their dominant source regions. Journal of Geophysical Research, 2005, 110, .	3.3	44
12	Observations of gravity wave breakdown into ripples associated with dynamical instabilities. Journal of Geophysical Research, 2005, 110, .	3.3	40
13	High frequency gravity waves observed in OH airglow at Starfire Optical Range, NM: Seasonal variations in momentum flux. Geophysical Research Letters, 2002, 29, 27-1-27-4.	1.5	39
14	Seasonal variability of the diurnal tide in the mesosphere and lower thermosphere over Maui, Hawaii (20.7Â°N, 156.3Â°W). Journal of Geophysical Research, 2011, 116, .	3.3	38
15	A Narrow-Linewidth, Yb Fiber-Amplifier-Based Upper Atmospheric Doppler Temperature Lidar. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 451-461.	1.9	36
16	Observational investigations of gravity wave momentum flux with spectroscopic imaging. Journal of Geophysical Research, 2005, 110, .	3.3	32
17	Characteristics of Fe ablation trails observed during the 1998 Leonid Meteor Shower. Geophysical Research Letters, 2000, 27, 1807-1810.	1.5	31
18	An overview of observations of unstable layers during the Turbulent Oxygen Mixing Experiment (TOMEX). Journal of Geophysical Research, 2004, 109, .	3.3	30

#	Article	IF	Citations
19	Gravity wave characteristics from OH airglow imager over Maui. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
20	Characteristics of instabilities in the mesopause region over Maui, Hawaii. Journal of Geophysical Research, 2005, 110, .	3.3	28
21	Observations of E and F region Mg⁺ from Spacelab 1. Journal of Geophysical Research, 1985, 90, 6667-6673.	3.3	24
22	On the variability of mesospheric OH emission profiles. Journal of Geophysical Research, 2007, 112, .	3.3	23
23	Vertical diffusion transport of atomic oxygen in the mesopause region consistent with chemical losses and continuity: Global mean and inter-annual variability. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 178, 47-57.	0.6	23
24	Evidence of the excitation of a ringâ€like gravity wave in the mesosphere over the Andes Lidar Observatory. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8896-8912.	1.2	17
25	Investigation of a â€œwallâ€•wave event. Journal of Geophysical Research, 2007, 112, .	3.3	16
26	Evidence of high frequency gravity wave forcing on the meridional residual circulation at the mesopause region. Advances in Space Research, 2015, 56, 1844-1853.	1.2	14
27	Determination of Global Mean Eddy Diffusive Transport in the Mesosphere and Lower Thermosphere From Atomic Oxygen and Carbon Dioxide Climatologies. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13519-13533.	1.2	13
28	Preface to special section on Mesospheric Dynamic and Thermodynamic Studies. Journal of Geophysical Research, 2005, 110, .	3.3	12
29	Meteorâ€radar observed mesospheric semiâ€annual oscillation (SAO) and quasiâ€biennial oscillation (QBO) over Maui, Hawaii. Journal of Geophysical Research, 2012, 117, .	3.3	11
30	Vertical Shears of Horizontal Winds in the Lower Thermosphere Observed by ICON. Geophysical Research Letters, 2022, 49, .	1.5	9
31	High frequency atmospheric gravity-wave properties using Fe-lidar and OH-imager observations. Geophysical Research Letters, 2005, 32, .	1.5	6
32	Intraâ€Annual Variation of Eddy Diffusion (k_{zz}) in the MLT, From SABER and SCIAMACHY Atomic Oxygen Climatologies. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035343.	1.2	4
33	Estimation of Three-Dimensional Atmospheric Wave Parameters From Ground-Based Spectroscopic Airglow Image Data. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2427-2435.	2.7	3
34	Probing the Analytical Cancellation Factor of Short Scale Gravity Waves Using Na Lidar and Nightglow Data from the Andes Lidar Observatory. Atmosphere, 2020, 11, 1311.	1.0	2
35	A Na density lidar method and measurements of turbulence to 105Âkm at the Andes Lidar Observatory. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 219, 105642.	0.6	2
36	Mesosphere and Lower Thermosphere Changes Associated With the 2 July 2019 Total Eclipse in South America Over the Andes Lidar Observatory, Cerro Pachon, Chile. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	2

#	Article	IF	Citations
37	Simulation of high power-aperture Rayleigh lidar for upper atmospheric studies. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 107, 77-84.	0.6	1
38	A photometer array for atmospheric gravity wave measurements on the Lower Atmosphere Ionosphere Coupling Experiment (LAICE) mission. Review of Scientific Instruments, 2018, 89, 113118.	0.6	0