

# Douglas Drob

## List of Publications by Citations

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74  
papers

4,986  
citations

30  
h-index

70  
g-index

79  
ext. papers

5,804  
ext. citations

4.9  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
74	NRLMSISE-00 empirical model of the atmosphere: Statistical comparisons and scientific issues. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SIA 15-1-SIA 15-16		2064
73	An empirical model of the Earth's horizontal wind fields: HWM07. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		374
72	An update to the Horizontal Wind Model (HWM): The quiet time thermosphere. <i>Earth and Space Science</i> , <b>2015</b> , 2, 301-319	3.1	327
71	A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors. <i>Nature</i> , <b>2013</b> , 503, 238-41	50.4	275
70	A computationally compact representation of Magnetic-Apex and Quasi-Dipole coordinates with smooth base vectors. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		102
69	DWM07 global empirical model of upper thermospheric storm-induced disturbance winds. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		99
68	Infrasound associated with 2004-2005 large Sumatra earthquakes and tsunamis. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	82
67	Atomic oxygen in the mesosphere and lower thermosphere derived from SABER: Algorithm theoretical basis and measurement uncertainty. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5724-5735	4.4	80
66	Infrasound monitoring of volcanoes to probe high-altitude winds. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		75
65	Acoustic propagation and atmosphere characteristics derived from infrasonic waves generated by the Concorde. <i>Journal of the Acoustical Society of America</i> , <b>2002</b> , 111, 629-41	2.2	67
64	THE SEISMOACOUSTIC WAVEFIELD: A NEW PARADIGM IN STUDYING GEOPHYSICAL PHENOMENA. <i>Reviews of Geophysics</i> , <b>2010</b> , 48,	23.1	62
63	On using ocean swells for continuous infrasonic measurements of winds and temperature in the lower, middle, and upper atmosphere. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	62
62	Probing high-altitude winds using infrasound. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		61
61	SAMI3 prediction of the impact of the 21 August 2017 total solar eclipse on the ionosphere/plasmasphere system. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5928-5935	4.9	52
60	Observations of increasing carbon dioxide concentration in Earth's thermosphere. <i>Nature Geoscience</i> , <b>2012</b> , 5, 868-871	18.3	52
59	Overview of the 2009 and 2011 Sayarim Infrasound Calibration Experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6122-6143	4.4	48
58	Ionospheric and dayglow responses to the radiative phase of the Bastille Day flare. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 99-1-99-4	4.9	48

57	The Temporal Morphology of Infrasound Propagation. <i>Pure and Applied Geophysics</i> , <b>2010</b> , 167, 437-453	2.2	46
56	Inversion of Infrasound Signals for Passive Atmospheric Remote Sensing <b>2010</b> , 701-731		43
55	On the sensitivity of infrasonic traveltimes in the equatorial region to the atmospheric tides. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		41
54	A method for specifying atmospheric gravity wavefields for long-range infrasound propagation calculations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 3933-3943	4.4	41
53	Infrasound: Connecting the Solid Earth, Oceans, and Atmosphere. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2012</b> , 40, 327-354	15.3	38
52	A study of acoustic propagation from a large bolide in the atmosphere with a dense seismic network. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		37
51	A joint seismic and acoustic study of the Washington State bolide: Observations and modeling. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		35
50	Middle atmosphere dynamical sources of the semiannual oscillation in the thermosphere and ionosphere. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 12-21	4.9	34
49	Simulations of the effects of vertical transport on the thermosphere and ionosphere using two coupled models. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1172-1185	2.6	33
48	Evaluation of infrasound signals from the shuttle Atlantis using a large seismic network. <i>Journal of the Acoustical Society of America</i> , <b>2008</b> , 124, 1442-51	2.2	33
47	On using infrasound from interacting ocean swells for global continuous measurements of winds and temperature in the stratosphere. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		33
46	A wide angle and high Mach number parabolic equation. <i>Journal of the Acoustical Society of America</i> , <b>2002</b> , 111, 729-34	2.2	32
45	Evidence for a meteoritic origin of the September 15, 2007, Carancas crater. <i>Meteoritics and Planetary Science</i> , <b>2008</b> , 43, 1797-1809	2.8	31
44	NRLMSIS 2.0: A Whole-Atmosphere Empirical Model of Temperature and Neutral Species Densities. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2020EA001321	3.1	28
43	Source location of the 19 February 2008 Oregon bolide using seismic networks and infrasound arrays. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		27
42	Atmospheric Variability and Infrasound Monitoring <b>2010</b> , 475-507		27
41	Calculating the absorption of HF radio waves in the ionosphere. <i>Radio Science</i> , <b>2017</b> , 52, 767-783	1.4	26
40	Short-Term and Interannual Variations of Migrating Diurnal and Semidiurnal Tides in the Mesosphere and Lower Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 7106-7123	2.6	26

39	Contribution of Infrasound Monitoring for Atmospheric Remote Sensing <b>2010</b> , 629-646		25
38	Seasonal dependence of northern high-latitude upper thermospheric winds: A quiet time climatological study based on ground-based and space-based measurements. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 2619-2644	2.6	24
37	Origins of the Thermosphere-Ionosphere Semiannual Oscillation: Reformulating the Thermospheric Spoon Mechanism. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 931-954	2.6	24
36	Nightside Detection of a Large-Scale Thermospheric Wave Generated by a Solar Eclipse. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3366-3373	4.9	23
35	Seasonal Dependence of Geomagnetic Active-Time Northern High-Latitude Upper Thermospheric Winds. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 739-754	2.6	22
34	A theoretical study of the effect of geomagnetic fluctuations and solar tides on the propagation of infrasonic waves in the upper atmosphere. <i>Geophysical Journal International</i> , <b>2002</b> , 148, 77-87	2.6	21
33	Direct EUV/X-Ray Modulation of the Ionosphere During the August 2017 Total Solar Eclipse. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3820-3828	4.9	21
32	Linkages between the cold summer mesopause and thermospheric zonal mean circulation. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	20
31	A Study of Infrasound Propagation Using Dense Seismic Network Recordings of Surface Explosions. <i>Bulletin of the Seismological Society of America</i> , <b>2012</b> , 102, 1927-1937	2.3	20
30	Using physics-based priors in a Bayesian algorithm to enhance infrasound source location. <i>Geophysical Journal International</i> , <b>2014</b> , 196, 375-385	2.6	18
29	Global Ionospheric Metal Ion Transport With SAMI3. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 7937-7944	4.9	17
28	Improved horizontal wind model HWM07 enables estimation of equatorial ionospheric electric fields from satellite magnetic measurements. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	17
27	Simulation of the 21 August 2017 Solar Eclipse Using the Whole Atmosphere Community Climate Model-eXtended. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3793-3800	4.9	15
26	Investigation of the causes of the longitudinal variation of the electron density in the Weddell Sea Anomaly. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 6562-6583	2.6	14
25	Coincident thermospheric wind measurements using ground-based Doppler Asymmetric Spatial Heterodyne (DASH) and Fabry-Pérot Interferometer (FPI) instruments. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 86, 92-98	2	14
24	A framework for estimating stratospheric wind speeds from unknown sources and application to the 2010 December 25 bolide. <i>Geophysical Journal International</i> , <b>2013</b> , 195, 491-503	2.6	14
23	A study of the nonlinear response of the upper atmosphere to episodic and stochastic acoustic-gravity wave forcing. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1178-1198	2.6	12
22	Global modeling of the low- and middle-latitude ionospheric D and lower E regions and implications for HF radio wave absorption. <i>Space Weather</i> , <b>2017</b> , 15, 115-130	3.7	10

21	Intraseasonal oscillations in the middle atmosphere forced by gravity waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2003</b> , 65, 1187-1203	2	10
20	Mid-latitude temperatures at 87 km: Results from multi-instrument Fourier analysis. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 2109-2112	4.9	10
19	Comparison of the neutral wind seasonal variation from midlatitude conjugate observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 3029-3035	2.6	9
18	Modeling studies with QBO: I. Quasi-decadal oscillation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2003</b> , 65, 887-899	2	9
17	VLF Measurements and Modeling of the D-Region Response to the 2017 Total Solar Eclipse. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 7613-7622	8.1	8
16	HL-TWiM Empirical Model of High-Latitude Upper Thermospheric Winds. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10592-10618	2.6	8
15	Modeling studies with QBO: II. Solar cycle effect. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2003</b> , 65, 901-916	2	8
14	Coupling From the Middle Atmosphere to the Exobase: Dynamical Disturbance Effects on Light Chemical Species. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028331	2.6	6
13	SAMI3 Simulations of Ionospheric Metallic Layers at Arecibo. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027297	2.6	6
12	Determination of Global Mean Eddy Diffusive Transport in the Mesosphere and Lower Thermosphere From Atomic Oxygen and Carbon Dioxide Climatologies. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 13519-13533	4.4	6
11	Evaluating Different Techniques for Constraining Lower Atmospheric Variability in an Upper Atmosphere General Circulation Model: A Case Study During the 2010 Sudden Stratospheric Warming. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 3076	7.1	6
10	Solar Terminator Waves in Surface Pressure Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5213-5219	4.9	6
9	Enhanced empirical models of the thermosphere. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , <b>2000</b> , 25, 537-542		5
8	An Intercomparison of VLF and Sounding Rocket Techniques for Measuring the Daytime D Region Ionosphere: Theoretical Implications. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8688-8697	2.6	5
7	Modeling the Impact of Metallic Ion Layers on Equatorial Spread With SAMI3/ESF. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, no	4.9	4
6	Comparison of ICON/MIGHTI and TIMED/TIDI Neutral Wind Measurements in the Lower Thermosphere.. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029904	2.6	4
5	On the Effects of Mesospheric and Lower Thermospheric Oxygen Chemistry on the Thermosphere and Ionosphere Semiannual Oscillation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028647	2.6	2
4	Oscillations in Neutral Winds Observed by GOCE. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089339	4.9	1

3	Observations and Modeling Studies of Solar Eclipse Effects on Oblique High Frequency Radio Propagation. <i>Space Weather</i> , <b>2021</b> , 19, e2020SW002560	3.7	1
2	Comparison of a Neutral Density Model With the SET HASDM Density Database. <i>Space Weather</i> , <b>2021</b> , 19, e2021SW002888	3.7	0
1	Response to Comments by R. A. Akmaev on Mid-latitude temperature at 87-Km: Results from multi-instrument Fourier analysis <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 2003-2004	4.9	