

Douglas Drob

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3375186/douglas-drob-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Comparison of ICON/MIGHTI and TIMED/TIDI Neutral Wind Measurements in the Lower Thermosphere.. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029904	2.6	4
73	Comparison of a Neutral Density Model With the SET HASDM Density Database. <i>Space Weather</i> , 2021 , 19, e2021SW002888	3.7	0
72	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> , 2021 , 126, e2020JA028647	3.6	2
71	Observations and Modeling Studies of Solar Eclipse Effects on Oblique High Frequency Radio Propagation. <i>Space Weather</i> , 2021 , 19, e2020SW002560	3.7	1
70	NRLMSIS 2.0: A Whole-Atmosphere Empirical Model of Temperature and Neutral Species Densities. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001321	3.1	28
69	Coupling From the Middle Atmosphere to the Exobase: Dynamical Disturbance Effects on Light Chemical Species. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028331	2.6	6
68	Modeling the Impact of Metallic Ion Layers on Equatorial Spread With SAMI3/ESF. <i>Geophysical Research Letters</i> , 2020 , 47, no	4.9	4
67	SAMI3 Simulations of Ionospheric Metallic Layers at Arecibo. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027297	2.6	6
66	Oscillations in Neutral Winds Observed by GOCE. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089339	4.9	1
65	Global Ionospheric Metal Ion Transport With SAMI3. <i>Geophysical Research Letters</i> , 2019 , 46, 7937-7944	4.9	17
64	VLF Measurements and Modeling of the D-Region Response to the 2017 Total Solar Eclipse. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 7613-7622	8.1	8
63	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> , 2019 , 124, 13519-13533	4.4	6
62	HL-TWiM Empirical Model of High-Latitude Upper Thermospheric Winds. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10592-10618	2.6	8
61	Nightside Detection of a Large-Scale Thermospheric Wave Generated by a Solar Eclipse. <i>Geophysical Research Letters</i> , 2018 , 45, 3366-3373	4.9	23
60	Origins of the Thermosphere-Ionosphere Semiannual Oscillation: Reformulating the Thermospheric Spoon Mechanism. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 931-954	2.6	24
59	Seasonal Dependence of Geomagnetic Active-Time Northern High-Latitude Upper Thermospheric Winds. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 739-754	2.6	22
58	Simulation of the 21 August 2017 Solar Eclipse Using the Whole Atmosphere Community Climate Model-eXtended. <i>Geophysical Research Letters</i> , 2018 , 45, 3793-3800	4.9	15

57	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> , 2018 , 10, 3076	7.1	6
56	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> , 2018 , 123, 7106-7123	2.6	26
55	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> , 2018 , 123, 8688-8697	2.6	5
54	Solar Terminator Waves in Surface Pressure Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 5213-5219	4.9	6
53	Direct EUV/X-Ray Modulation of the Ionosphere During the August 2017 Total Solar Eclipse. <i>Geophysical Research Letters</i> , 2018 , 45, 3820-3828	4.9	21
52	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> , 2017 , 122, 2619-2644	2.6	24
51	SAMI3 prediction of the impact of the 21 August 2017 total solar eclipse on the ionosphere/plasmasphere system. <i>Geophysical Research Letters</i> , 2017 , 44, 5928-5935	4.9	52
50	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> , 2017 , 122, 6562-6583	2.6	14
49	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> , 2017 , 122, 1178-1198	2.6	12
48	Middle atmosphere dynamical sources of the semiannual oscillation in the thermosphere and ionosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 12-21	4.9	34
47	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> , 2017 , 15, 115-130	3.7	10
46	Calculating the absorption of HF radio waves in the ionosphere. <i>Radio Science</i> , 2017 , 52, 767-783	1.4	26
45	An update to the Horizontal Wind Model (HWM): The quiet time thermosphere. <i>Earth and Space Science</i> , 2015 , 2, 301-319	3.1	327
44	Simulations of the effects of vertical transport on the thermosphere and ionosphere using two coupled models. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1172-1185	2.6	33
43	Comparison of the neutral wind seasonal variation from midlatitude conjugate observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3029-3035	2.6	9
42	Using physics-based priors in a Bayesian algorithm to enhance infrasound source location. <i>Geophysical Journal International</i> , 2014 , 196, 375-385	2.6	18
41	Overview of the 2009 and 2011 Sayarim Infrasound Calibration Experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6122-6143	4.4	48
40	A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors. <i>Nature</i> , 2013 , 503, 238-41	50.4	275

39	A framework for estimating stratospheric wind speeds from unknown sources and application to the 2010 December 25 bolide. <i>Geophysical Journal International</i> , 2013 , 195, 491-503	2.6	14
38	A method for specifying atmospheric gravity wavefields for long-range infrasound propagation calculations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3933-3943	4.4	41
37	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> , 2013 , 118, 5724-5735	4.4	80
36	Observations of increasing carbon dioxide concentration in Earth's thermosphere. <i>Nature Geoscience</i> , 2012 , 5, 868-871	18.3	52
35	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> , 2012 , 86, 92-98	2	14
34	Linkages between the cold summer mesopause and thermospheric zonal mean circulation. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	20
33	Infrasound: Connecting the Solid Earth, Oceans, and Atmosphere. <i>Annual Review of Earth and Planetary Sciences</i> , 2012 , 40, 327-354	15.3	38
32	On the sensitivity of infrasonic traveltimes in the equatorial region to the atmospheric tides. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		41
31	A Study of Infrasound Propagation Using Dense Seismic Network Recordings of Surface Explosions. <i>Bulletin of the Seismological Society of America</i> , 2012 , 102, 1927-1937	2.3	20
30	Inversion of Infrasound Signals for Passive Atmospheric Remote Sensing 2010 , 701-731		43
29	A computationally compact representation of Magnetic-Apex and Quasi-Dipole coordinates with smooth base vectors. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		102
28	A study of acoustic propagation from a large bolide in the atmosphere with a dense seismic network. <i>Journal of Geophysical Research</i> , 2010 , 115,		37
27	Source location of the 19 February 2008 Oregon bolide using seismic networks and infrasound arrays. <i>Journal of Geophysical Research</i> , 2010 , 115,		27
26	THE SEISMOACOUSTIC WAVEFIELD: A NEW PARADIGM IN STUDYING GEOPHYSICAL PHENOMENA. <i>Reviews of Geophysics</i> , 2010 , 48,	23.1	62
25	The Temporal Morphology of Infrasound Propagation. <i>Pure and Applied Geophysics</i> , 2010 , 167, 437-453	2.2	46
24	Atmospheric Variability and Infrasound Monitoring 2010 , 475-507		27
23	Contribution of Infrasound Monitoring for Atmospheric Remote Sensing 2010 , 629-646		25
22	Improved horizontal wind model HWM07 enables estimation of equatorial ionospheric electric fields from satellite magnetic measurements. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	17

21	DWM07 global empirical model of upper thermospheric storm-induced disturbance winds. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		99
20	An empirical model of the Earth's horizontal wind fields: HWM07. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		374
19	Evidence for a meteoritic origin of the September 15, 2007, Carancas crater. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 1797-1809	2.8	31
18	Evaluation of infrasound signals from the shuttle Atlantis using a large seismic network. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 1442-51	2.2	33
17	A joint seismic and acoustic study of the Washington State bolide: Observations and modeling. <i>Journal of Geophysical Research</i> , 2007 , 112,		35
16	On using infrasound from interacting ocean swells for global continuous measurements of winds and temperature in the stratosphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		33
15	Infrasound associated with 2004-2005 large Sumatra earthquakes and tsunamis. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	82
14	Infrasound monitoring of volcanoes to probe high-altitude winds. <i>Journal of Geophysical Research</i> , 2005 , 110,		75
13	Probing high-altitude winds using infrasound. <i>Journal of Geophysical Research</i> , 2005 , 110,		61
12	On using ocean swells for continuous infrasonic measurements of winds and temperature in the lower, middle, and upper atmosphere. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	62
11	Intraseasonal oscillations in the middle atmosphere forced by gravity waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003 , 65, 1187-1203	2	10
10	Modeling studies with QBO: I. Quasi-decadal oscillation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003 , 65, 887-899	2	9
9	Modeling studies with QBO: II. Solar cycle effect. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003 , 65, 901-916	2	8
8	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> , 2002 , 148, 77-87	2.6	21
7	Acoustic propagation and atmosphere characteristics derived from infrasonic waves generated by the Concorde. <i>Journal of the Acoustical Society of America</i> , 2002 , 111, 629-41	2.2	67
6	A wide angle and high Mach number parabolic equation. <i>Journal of the Acoustical Society of America</i> , 2002 , 111, 729-34	2.2	32
5	NRLMSISE-00 empirical model of the atmosphere: Statistical comparisons and scientific issues. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 15-1-SIA 15-16		2064
4	Ionospheric and dayglow responses to the radiative phase of the Bastille Day flare. <i>Geophysical Research Letters</i> , 2002 , 29, 99-1-99-4	4.9	48

- 3 Response to Comments by R. A. Akmaev on Mid-latitude temperature at 87-Km: Results from multi-instrument Fourier analysis *Geophysical Research Letters*, **2001**, 28, 2003-2004 4-9
- 2 Enhanced empirical models of the thermosphere. *Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science*, **2000**, 25, 537-542 5
- 1 Mid-latitude temperatures at 87 km: Results from multi-instrument Fourier analysis. *Geophysical Research Letters*, **2000**, 27, 2109-2112 4-9 10