Brian Harding

List of Publications by Year
in descending order

45	1,012	393982	454577
papers	citations	19 h-index	30 g-index

57	57	57	721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Examining the Wind Shear Theory of Sporadic E With ICON/MIGHTI Winds and COSMICâ€2 Radio Occultation Data. Geophysical Research Letters, 2022, 49, .	1.5	29
2	Atmospheric Lunar Tide in the Low Latitude Thermosphereâ€Ionosphere. Geophysical Research Letters, 2022, 49, .	1.5	4
3	Vertical Coupling by Solar Semidiurnal Tides in the Thermosphere From ICON/MIGHTI Measurements. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	16
4	Impacts of the January 2022 Tonga Volcanic Eruption on the Ionospheric Dynamo: ICONâ€MIGHTI and Swarm Observations of Extreme Neutral Winds and Currents. Geophysical Research Letters, 2022, 49, .	1.5	67
5	Topside Plasma Flows in the Equatorial Ionosphere and Their Relationships to Fâ€Region Winds Near 250Âkm. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	9
6	Vertical Shears of Horizontal Winds in the Lower Thermosphere Observed by ICON. Geophysical Research Letters, 2022, 49, .	1.5	9
7	Pronounced Suppression and Xâ€Pattern Merging of Equatorial Ionization Anomalies After the 2022 Tonga Volcano Eruption. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	42
8	Multistatic Specular Meteor Radar Network in Peru: System Description and Initial Results. Earth and Space Science, 2021, 8, e2020EA001293.	1.1	25
9	Validation of ICONâ€MIGHTI Thermospheric Wind Observations: 1. Nighttime Redâ€Line Groundâ€Based Fabryâ€Perot Interferometers. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028726.	0.8	43
10	Comparison of Thermospheric Winds Measured by GOCE and Groundâ€Based FPIs at Low and Middle Latitudes. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028182.	0.8	5
11	Validation of ICONâ€MIGHTI Thermospheric Wind Observations: 2. Greenâ€Line Comparisons to Specular Meteor Radars. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028947.	0.8	45
12	Neutral Wind Profiles During Periods of Eastward and Westward Equatorial Electrojet. Geophysical Research Letters, 2021, 48, e2021GL093567.	1.5	19
13	Atmosphereâ€Ionosphere (Aâ€I) Coupling as Viewed by ICON: Dayâ€toâ€Day Variability Due to Planetary Wave (PW)â€Tide Interactions. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028927.	0.8	14
14	Quasiâ€2â€Day Wave in Lowâ€Latitude Atmospheric Winds as Viewed From the Ground and Space During Januaryâ€“March, 2020. Geophysical Research Letters, 2021, 48, e2021GL093466.	1.5	13
15	Evaluation of Atmospheric 3â€Day Waves as a Source of Dayâ€toâ€Day Variation of the Ionospheric Longitudinal Structure. Geophysical Research Letters, 2021, 48, e2021GL094877.	1.5	9
16	First Results From the Retrieved Column O/N₂ Ratio From the Ionospheric Connection Explorer (ICON): Evidence of the Impacts of Nonmigrating Tides. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029575.	0.8	7
17	Q2DWâ€tide and â€ionosphere interactions as observed from ICON and groundâ€based radars. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029961.	0.8	4
18	Spatial Resolution of the MIGHTI Thermospheric Wind Measurements and Implications on Wind Shear Measurements. , 2021, , .		1

#	Article	IF	Citations
19	Conjugate Photoelectron Energy Spectra Derived From Coincident FUV and Radio Measurements. Geophysical Research Letters, 2021, 48, .	1.5	5
20	Regulation of ionospheric plasma velocities by thermospheric winds. Nature Geoscience, 2021, 14, 893-898.	5.4	25
21	On-orbit Performance of the Thermospheric Wind and Temperature Instrument on the NASA ICON Mission. , 2021, , .		0
22	Errors From Asymmetric Emission Rate in Spaceborne, Limb Sounding Doppler Interferometry: A Correction Algorithm With Application to ICON/MIGHTI. Earth and Space Science, 2020, 7, e2020EA001164.	1.1	11
23	A Mechanism for the STEVE Continuum Emission. Geophysical Research Letters, 2020, 47, e2020GL087102.	1.5	22
24	The Response of the Ionosphereâ€Thermosphere System to the 21 August 2017 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2019, 124, 7341-7355.	0.8	26
25	Thermospheric Weather as Observed by Groundâ€Based FPIs and Modeled by GITM. Journal of Geophysical Research: Space Physics, 2019, 124, 1307-1316.	0.8	12
26	Subauroral Green STEVE Arcs: Evidence for Lowâ€Energy Excitation. Geophysical Research Letters, 2019, 46, 14256-14262.	1.5	32
27	On the uncertainties in determining fringe phase in Doppler asymmetric spatial heterodyne spectroscopy. Applied Optics, 2019, 58, 3613.	0.9	7
28	Nightside Detection of a Largeâ€Scale Thermospheric Wave Generated by a Solar Eclipse. Geophysical Research Letters, 2018, 45, 3366-3373.	1.5	28
29	Inferring Nighttime Ionospheric Parameters with the Far Ultraviolet Imager Onboard the Ionospheric Connection Explorer. Space Science Reviews, 2018, 214, 1.	3.7	20
30	Nonparametric H Density Estimation Based on Regularized Nonlinear Inversion of the Lyman Alpha Emission in Planetary Atmospheres. Journal of Geophysical Research: Space Physics, 2018, 123, 8641-8648.	0.8	6
31	Ionospheric and thermospheric response to the 27â€“28 February 2014 geomagnetic storm over north Africa. Annales Geophysicae, 2018, 36, 987-998.	0.6	13
32	New results on the mid-latitude midnight temperature maximum. Annales Geophysicae, 2018, 36, 541-553.	0.6	8
33	Atmospheric scattering effects on groundâ€based measurements of thermospheric vertical wind, horizontal wind, and temperature. Journal of Geophysical Research: Space Physics, 2017, 122, 7654-7669.	0.8	17
34	Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI): Instrument Design and Calibration. Space Science Reviews, 2017, 212, 553-584.	3.7	116
35	Ground-Based Optical Measurements of Quiet Time Thermospheric Wind and Temperature: Atmospheric Scattering Corrections. Journal of Geophysical Research: Space Physics, 2017, 122, 11,624-11,632.	0.8	5
36	The MIGHTI Wind Retrieval Algorithm: Description and Verification. Space Science Reviews, 2017, 212, 585-600.	3.7	74

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37	New results on equatorial thermospheric winds and temperatures from Ethiopia, Africa. Annales Geophysicae, 2017, 35, 333-344.	0.6	19
38	Climatology of thermospheric neutral winds over OukaÃ¯meden Observatory in Morocco. Annales Geophysicae, 2017, 35, 161-170.	0.6	21
39	Thermospheric Dynamics in Quiet and Disturbed Conditions. Proceedings of the International Astronomical Union, 2017, 13, 151-158.	0.0	0
40	Thermospheric poleward wind surge at midlatitudes during great storm intervals. Geophysical Research Letters, 2015, 42, 5132-5140.	1.5	59
41	Observations of storm time midlatitude ionâ€neutral coupling using SuperDARN radars and NATION Fabryâ€Perot interferometers. Journal of Geophysical Research: Space Physics, 2015, 120, 8989-9003.	0.8	14
42	Estimation of mesoscale thermospheric wind structure using a network of interferometers. Journal of Geophysical Research: Space Physics, 2015, 120, 3928-3940.	0.8	18
43	Nonlinear regression method for estimating neutral wind and temperature from Fabryâ€“Perot interferometer data. Applied Optics, 2014, 53, 666.	0.9	42
44	Storm time response of the midlatitude thermosphere: Observations from a network of Fabryâ€Perot interferometers. Journal of Geophysical Research: Space Physics, 2014, 119, 6758-6773.	0.8	23
45	Radar imaging with compressed sensing. Radio Science, 2013, 48, 582-588.	0.8	22