

John M Harlander

List of Publications by Year in descending order

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45
papers

1,059
citations

430874

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all docs

48
docs citations

48
times ranked

387
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical Coupling by Solar Semidiurnal Tides in the Thermosphere From ICON/MIGHTI Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	16
2	Vertical Shears of Horizontal Winds in the Lower Thermosphere Observed by ICON. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
3	Validation of ICONâ€™MIGHTI Thermospheric Wind Observations: 1. Nighttime Redâ€™Line Groundâ€™Based Fabryâ€™Perot Interferometers. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028726.	2.4	43
4	Determining the thermomechanical image shift for the MIGHTI instrument on the NASA-ICON satellite (Erratum). <i>Optical Engineering</i> , 2021, 60, .	1.0	0
5	Validation of ICONâ€™MIGHTI Thermospheric Wind Observations: 2. Greenâ€™Line Comparisons to Specular Meteor Radars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028947.	2.4	45
6	Atmosphereâ€™Ionosphere (Aâ€™I) Coupling as Viewed by ICON: Dayâ€™toâ€™Day Variability Due to Planetary Wave (PW)â€™Tide Interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028927.	2.4	14
7	Quasiâ€™2â€™Day Wave in Lowâ€™Latitude Atmospheric Winds as Viewed From the Ground and Space During Januaryâ€™March, 2020. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093466.	4.0	13
8	Q2DWâ€™tide and â€™ionosphere interactions as observed from ICON and groundâ€™based radars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029961.	2.4	4
9	Regulation of ionospheric plasma velocities by thermospheric winds. <i>Nature Geoscience</i> , 2021, 14, 893-898.	12.9	25
10	On-orbit Performance of the Thermospheric Wind and Temperature Instrument on the NASA ICON Mission. , 2021, , .		0
11	Laboratory demonstration of mini-MIGHTI: A prototype sensor for thermospheric red-line (630Ånm) neutral wind measurements from a 6U CubeSat. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 207, 105363.	1.6	6
12	Errors From Asymmetric Emission Rate in Spaceborne, Limb Sounding Doppler Interferometry: A Correction Algorithm With Application to ICON/MIGHTI. <i>Earth and Space Science</i> , 2020, 7, e2020EA001164.	2.6	11
13	Determining the thermomechanical image shift for the MIGHTI instrument on the NASA-ICON satellite. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	5
14	Calibration lamp design, characterization, and implementation for the Michelson Interferometer for Global High-Resolution Thermospheric Imaging instrument on the Ionospheric Connection satellite. <i>Optical Engineering</i> , 2019, 58, 1.	1.0	5
15	Mini-Mighti: A Prototype Sensor For Thermospheric Red-Line (630 Nm) Neutral Wind Measurements From A 6u Cubesat. , 2019, , .		1
16	An Overview of Design Challenges and the Data Analysis Approach of the Thermospheric Wind and Temperature Instrument on the NASA ICON Mission. , 2019, , .		0
17	On the uncertainties in determining fringe phase in Doppler asymmetric spatial heterodyne spectroscopy. <i>Applied Optics</i> , 2019, 58, 3613.	1.8	7
18	Retrieval of Lower Thermospheric Temperatures from O2 A Band Emission: The MIGHTI Experiment on ICON. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	26

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19	An Overview of Design Challenges and the Data Analysis Approach of the Thermospheric Wind and Temperature Instrument on the NASA ICON Mission. , 2018, , .		0
20	Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI): Instrument Design and Calibration. Space Science Reviews, 2017, 212, 553-584.	8.1	116
21	Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI): Monolithic Interferometer Design and Test. Space Science Reviews, 2017, 212, 601-613.	8.1	40
22	The MIGHTI Wind Retrieval Algorithm: Description and Verification. Space Science Reviews, 2017, 212, 585-600.	8.1	74
23	High-efficiency echelle gratings for MIGHTI, the spatial heterodyne interferometers for the ICON mission. Applied Optics, 2017, 56, 2090.	2.1	17
24	The As-Built Performance of the MIGHTI Interferometers. , 2016, , .		0
25	Spatial heterodyne spectroscopy at the Naval Research Laboratory. Applied Optics, 2015, 54, F158.	2.1	25
26	Design and Laboratory Tests of the Michelson Interferometer for Global High-resolution Thermospheric Imaging (MIGHTI) on the Ionospheric Connection Explorer (ICON) Satellite. , 2015, , .		0
27	High sensitivity trace gas sensor for planetary atmospheres: miniaturized Mars methane monitor. Journal of Applied Remote Sensing, 2014, 8, 083625.	1.3	4
28	Thermal sensitivity of DASH interferometers: the role of thermal effects during the calibration of an Echelle DASH interferometer. Applied Optics, 2013, 52, 8082.	1.8	13
29	Flat-fields in DASH interferometry. Optics Express, 2012, 20, 9535.	3.4	10
30	Measurement and modeling of the thermal behavior of a laboratory DASH interferometer. Proceedings of SPIE, 2012, , .	0.8	1
31	Compression Assembly of Spatial Heterodyne Spectroscopy Interferometers. Recent Patents on Space Technology, 2011, 1, 1-6.	0.1	0
32	Doppler Asymmetric Spatial Heterodyne (DASH) Interferometer from Flight Concept to Field Campaign. , 2011, , .		0
33	Laboratory and field tests of a Doppler Asymmetric Spatial Heterodyne (DASH) spectrometer for thermospheric wind observations. , 2011, , .		0
34	Spatial Heterodyne Imager for Mesospheric Radicals on STPSat. Journal of Geophysical Research, 2010, 115, .	3.3	41
35	First results from an all-reflection spatial heterodyne spectrometer with broad spectral coverage. Optics Express, 2010, 18, 6205.	3.4	20
36	Design and laboratory tests of a Doppler Asymmetric Spatial Heterodyne (DASH) interferometer for upper atmospheric wind and temperature observations. Optics Express, 2010, 18, 26430.	3.4	48

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37	Initial ground-based thermospheric wind measurements using Doppler asymmetric spatial heterodyne spectroscopy (DASH). <i>Optics Express</i> , 2010, 18, 27416.	3.4	43
38	Broadband, high-resolution spatial heterodyne spectrometer. <i>Applied Optics</i> , 2008, 47, 6371.	2.1	30
39	First results from the Spatial Heterodyne Imager for Mesospheric Radicals (SHIMMER): Diurnal variation of mesospheric hydroxyl. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	24
40	Doppler asymmetric spatial heterodyne spectroscopy (DASH): concept and experimental demonstration. <i>Applied Optics</i> , 2007, 46, 7297.	2.1	92
41	Correction of phase distortion in spatial heterodyne spectroscopy. <i>Applied Optics</i> , 2004, 43, 6680.	2.1	56
42	Robust monolithic ultraviolet interferometer for the SHIMMER instrument on STPSat-1. <i>Applied Optics</i> , 2003, 42, 2829.	2.1	56
43	Shimmer: a spatial heterodyne spectrometer for remote sensing of Earth's middle atmosphere. <i>Applied Optics</i> , 2002, 41, 1343.	2.1	90
44	The Field-Widened SHS: An Extremely High etendue, Unscanned, Michelson-Based Spectrometer. <i>International Astronomical Union Colloquium</i> , 1995, 149, 336-337.	0.1	2
45	Spatial heterodyne spectroscopy: interferometric performance at any wavelength without scanning. , 1990, , .		26