Thomas Immel

List of Publications by Year
in descending order

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45	2,957	218677	233421
papers	citations	26 h-index	45 g-index

50	50	50	1296
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, .	4.0	29
2	Topside Plasma Flows in the Equatorial Ionosphere and Their Relationships to Fâ€Region Winds Near 250Âkm. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	9
3	Vertical Shears of Horizontal Winds in the Lower Thermosphere Observed by ICON. Geophysical Research Letters, 2022, 49, .	4.0	9
4	Pronounced Suppression and Xâ€Pattern Merging of Equatorial Ionization Anomalies After the 2022 Tonga Volcano Eruption. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	42
5	Validation of ICONâ€MIGHTI Thermospheric Wind Observations: 2. Greenâ€Line Comparisons to Specular Meteor Radars. Journal of Geophysical Research: Space Physics, 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. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028927.	2.4	14
7	Dynamical Coupling Between the Lowâ€Latitude Lower Thermosphere and Ionosphere via the Nonmigrating Diurnal Tide as Revealed by Concurrent Satellite Observations and Numerical Modeling. Geophysical Research Letters, 2021, 48, e2021GL093277.	4.0	9
8	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.	4.0	9
9	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.	2.4	7
10	Regulation of ionospheric plasma velocities by thermospheric winds. Nature Geoscience, 2021, 14, 893-898.	12.9	25
11	Daily Variability in the Terrestrial UV Airglow. Atmosphere, 2020, 11, 1046.	2.3	4
12	Sensitivity study for ICON tidal analysis. Progress in Earth and Planetary Science, 2020, 7, 18.	3.0	23
13	Variations in the ionosphere-thermosphere system from tides, ultra-fast Kelvin waves, and their interactions. Advances in Space Research, 2019, 64, 1841-1853.	2.6	6
14	New NASA Missions Focus on Terrestrial Forcing of the Space Environment. Bulletin of the American Meteorological Society, 2019, 100, 2153-2156.	3.3	5
15	Daytime O/N2 Retrieval Algorithm for the Ionospheric Connection Explorer (ICON). Space Science Reviews, 2018, 214, 1.	8.1	19
16	Inferring Nighttime Ionospheric Parameters with the Far Ultraviolet Imager Onboard the Ionospheric Connection Explorer. Space Science Reviews, 2018, 214, 1.	8.1	20
17	The Ionospheric Connection Explorer Mission: Mission Goals and Design. Space Science Reviews, 2018, 214, 1.	8.1	152
18	Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI): Instrument Design and Calibration. Space Science Reviews, 2017, 212, 553-584.	8.1	116

#	Article	IF	Citations
19	The Far Ultra-Violet Imager on the Icon Mission. Space Science Reviews, 2017, 212, 655-696.	8.1	39
20	The MIGHTI Wind Retrieval Algorithm: Description and Verification. Space Science Reviews, 2017, 212, 585-600.	8.1	74
21	The August 2011 URSI World Day campaign: Initial results. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 134, 47-55.	1.6	3
22	Gravity wave variations during elevated stratopause events using SABER observations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5287-5303.	3.3	59
23	Signatures of the 3â€day wave in the lowâ€latitude and midlatitude ionosphere during the January 2010 URSI World Day campaign. Journal of Geophysical Research, 2012, 117, .	3.3	19
24	Rapid decay of storm time ring current due to pitch angle scattering in curved field line. Journal of Geophysical Research, 2011, 116, .	3.3	32
25	Modeling of multiple effects of atmospheric tides on the ionosphere: An examination of possible coupling mechanisms responsible for the longitudinal structure of the equatorial ionosphere. Journal of Geophysical Research, 2010, 115, .	3.3	108
26	Temporal modulations of the longitudinal structure in F₂ peak height in the equatorial ionosphere as observed by COSMIC. Journal of Geophysical Research, 2010, 115, .	3.3	20
27	Temporal modulation of the fourâ€peaked longitudinal structure of the equatorial ionosphere by the 2 day planetary wave. Journal of Geophysical Research, 2010, 115, .	3.3	28
28	The effect of non-migrating tides on the morphology of the equatorial ionospheric anomaly: seasonal variability. Earth, Planets and Space, 2009, 61, 493-503.	2.5	37
29	Upward propagating tidal effects across the E- and F-regions of the ionosphere. Earth, Planets and Space, 2009, 61, 505-512.	2.5	29
30	Modeling the longitudinal variation in the postâ€sunset farâ€ultraviolet OI airglow using the SAMI2 model. Journal of Geophysical Research, 2008, 113, .	3.3	32
31	Plausible effect of atmospheric tides on the equatorial ionosphere observed by the FORMOSAT-3/COSMIC: Three-dimensional electron density structures. Geophysical Research Letters, 2007, 34, .	4.0	158
32	Connections between deep tropical clouds and the Earth's ionosphere. Geophysical Research Letters, 2007, 34, .	4.0	198
33	A method for determining the drift velocity of plasma depletions in the equatorial ionosphere using farâ€ultraviolet spacecraft observations. Journal of Geophysical Research, 2007, 112, .	3.3	20
34	Control of equatorial ionospheric morphology by atmospheric tides. Geophysical Research Letters, 2006, 33, .	4.0	551
35	Effect of atmospheric tides on the morphology of the quiet time, postsunset equatorial ionospheric anomaly. Journal of Geophysical Research, 2006, 111, .	3.3	102
36	Longitudinal variation of the E-region electric fields caused by atmospheric tides. Geophysical Research Letters, 2006, 33, .	4.0	219

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37	Longitudinal structure of the equatorial anomaly in the nighttime ionosphere observed by IMAGE/FUV. Journal of Geophysical Research, 2005, 110, .	3.3	267
38	Simultaneous observations of equatorial plasma depletion by IMAGE and ROCSAT-1 satellites. Journal of Geophysical Research, 2005, 110, .	3.3	26
39	Storm-time enhancement of mid-latitude ultraviolet emissions due to energetic neutral atom precipitation. Geophysical Research Letters, 2005, 32, .	4.0	13
40	O/N2changes during 1â€“4 October 2002 storms: IMAGE SI-13 and TIMED/GUVI observations. Journal of Geophysical Research, 2004, 109, .	3.3	135
41	Sudden solar wind dynamic pressure enhancements and dayside detached auroras: IMAGE and DMSP observations. Journal of Geophysical Research, 2003, 108, COA 2-1.	3.3	48
42	Negative ionospheric storms seen by the IMAGE FUV instrument. Journal of Geophysical Research, 2003, 108, .	3.3	42
43	Determination of low latitude plasma drift speeds from FUV images. Geophysical Research Letters, 2003, 30, .	4.0	43
44	Dayside enhancements of thermospheric O/N2following magnetic storm onset. Journal of Geophysical Research, 2001, 106, 15471-15488.	3.3	66
45	Variations in the FUV dayglow after intense auroral activity. Geophysical Research Letters, 1994, 21, 2793-2796.	4.0	43