Michael Hickey

List of Publications by Year
in descending order

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Version: 2024-02-01

43 papers	1,072 citations	394421 19 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	688 citing authors

#	Article	IF	Citations
1	Ionospheric signatures of Tohokuâ€Oki tsunami of March 11, 2011: Model comparisons near the epicenter. Radio Science, 2012, 47, .	1.6	134
2	Propagation of tsunamiâ€driven gravity waves into the thermosphere and ionosphere. Journal of Geophysical Research, 2009, 114, .	3.3	112
3	The 2009 Samoa and 2010 Chile tsunamis as observed in the ionosphere using GPS total electron content. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	93
4	Acoustic wave heating of the thermosphere. Journal of Geophysical Research, 2001, 106, 21543-21548.	3.3	60
5	Thermospheric dissipation of upward propagating gravity wave packets. Journal of Geophysical Research: Space Physics, 2014, 119, 3857-3872.	2.4	55
6	Numerical simulations of gravity waves imaged over Arecibo during the 10-day January 1993 campaign. Journal of Geophysical Research, 1997, 102, 11475-11489.	3.3	47
7	Atmospheric airglow fluctuations due to a tsunamiâ€driven gravity wave disturbance. Journal of Geophysical Research, 2010, 115, .	3.3	42
8	Gravity wave heating and cooling of the thermosphere: Sensible heat flux and viscous flux of kinetic energy. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	42
9	Secular variations of atomic oxygen in the mesopause region induced by transient gravity wave packets. Geophysical Research Letters, 2000, 27, 3599-3602.	4.0	40
10	Group velocity and energy flux in the thermosphere: Limits on the validity of group velocity in a viscous atmosphere. Journal of Geophysical Research, 2011, 116, .	3.3	31
11	A numerical model characterizing internal gravity wave propagation into the upper atmosphere. Advances in Space Research, 2009, 44, 836-846.	2.6	25
12	Numerical modeling of a gravity wave packet ducted by the thermal structure of the atmosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	24
13	Physical processes in acoustic wave heating of the thermosphere. Journal of Geophysical Research, 2005, 110, .	3.3	23
14	Acoustic waves generated by gusty flow over hilly terrain. Journal of Geophysical Research, 2005, 110, .	3.3	22
15	A full-wave investigation of the use of a â€œcancellation factorâ€in gravity waveâ€“OH airglow interaction studies. Journal of Geophysical Research, 2005, 110, .	3.3	21
16	Wave heating and Jeans escape in the Martian upper atmosphere. Journal of Geophysical Research E: Planets, 2013, 118, 2413-2422.	3.6	21
17	Time-resolved ducting of atmospheric acoustic-gravity waves by analysis of the vertical energy flux. Geophysical Research Letters, 2007, 34, .	4.0	20
18	Gravity wave ducting in the upper mesosphere and lower thermosphere duct system. Journal of Geophysical Research, 2009, 114, .	3.3	20

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19	Secular variations of OI 5577 Ã... Airglow in the mesopause region induced by transient gravity wave packets. Geophysical Research Letters, 2001, 28, 701-704.	4.0	19
20	A fullâ€wave model for a binary gas thermosphere: Effects of thermal conductivity and viscosity. Journal of Geophysical Research: Space Physics, 2015, 120, 3074-3083.	2.4	18
21	Wave mean flow interactions in the thermosphere induced by a major tsunami. Journal of Geophysical Research, 2010, 115, .	3.3	17
22	Gravity wave packet effects on chemical exothermic heating in the mesopause region. Journal of Geophysical Research, 2003, 108, .	3.3	16
23	Ionospheric signatures of gravity waves produced by the 2004 Sumatra and 2011 Tohoku tsunamis: A modeling study. Journal of Geophysical Research: Space Physics, 2017, 122, 1146-1162.	2.4	16
24	Airglow variations associated with nonideal ducting of gravity waves in the lower thermosphere region. Journal of Geophysical Research, 2001, 106, 17907-17917.	3.3	15
25	Numerical simulation of the longâ€range propagation of gravity wave packets at high latitudes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,116.	3.3	15
26	Further investigations of a mesospheric inversion layer observed in the ALOHA-93 Campaign. Journal of Geophysical Research, 2002, 107, ACL 17-1.	3.3	14
27	An intense traveling airglow front in the upper mesosphereâ€“lower thermosphere with characteristics of a bore observed over Alice Springs, Australia, during a strong 2 day wave episode. Journal of Geophysical Research, 2012, 117, .	3.3	14
28	Numerical and statistical evidence for longâ€range ducted gravity wave propagation over Halley, Antarctica. Geophysical Research Letters, 2013, 40, 4813-4817.	4.0	14
29	Simulated ducting of high-frequency atmospheric gravity waves in the presence of background winds. Geophysical Research Letters, 2007, 34, .	4.0	13
30	An observation of a fast external atmospheric acoustic-gravity wave. Journal of Geophysical Research, 2002, 107, ACL 12-1.	3.3	12
31	Numerical Modeling of the Propagation of Infrasonic Acoustic Waves Through the Turbulent Field Generated by the Breaking of Mountain Gravity Waves. Geophysical Research Letters, 2019, 46, 5526-5534.	4.0	12
32	Gravity wave propagation in a diffusively separated gas: Effects on the total gas. Journal of Geophysical Research, 2012, 117, .	3.3	11
33	Lower thermospheric response to atmospheric gravity waves induced by the 2011 Tohoku tsunami. Journal of Geophysical Research: Space Physics, 2015, 120, 5062-5075.	2.4	11
34	A simulation study of space-based observations of gravity waves in the airglow using observed ALOHA-93 wave parameters. Journal of Geophysical Research, 2002, 107, SIA 4-1-SIA 4-11.	3.3	6
35	An analysis of the atmospheric propagation of underground-explosion-generated infrasonic waves based on the equations of fluid dynamics: Ground recordings. Journal of the Acoustical Society of America, 2019, 146, 4576-4591.	1.1	4
36	Resolving ambiguities in gravity wave propagation directions inherent in satellite observations: A simulation study. Geophysical Research Letters, 2000, 27, 2901-2904.	4.0	3

#	Article	IF	Citations
37	A Numerical Study of Gravity Waves Propagation Characteristics in the Mesospheric Doppler Duct. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034680.	3.3	3
38	Modeling Studies of Gravity Wave Dynamics in Highly Structured Environments: Reflection, Trapping, Instability, Momentum Transport, Secondary Gravity Waves, and Induced Flow Responses. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
39	Gravityâ€waveâ€induced variations in exothermic heating in the lowâ€latitude, equinox mesophere and lower thermosphere region. Journal of Geophysical Research, 2012, 117, .	3.3	2
40	Ionospheric Gravity Waves Driven by Oceanic Gravity Waves in Resonance: A Modeling Study in Search of Their Spectra. Geophysical Research Letters, 2017, 44, 9183-9191.	4.0	2
41	Thank You to Our 2019 Reviewers. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028092.	2.4	0
42	Thank You to Our 2020 Reviewers. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029311.	2.4	0
43	Thank You to Our 2021 Reviewers. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	0