

Michael Kelley

List of Publications by Year in descending order

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74
papers

2,694
citations

172386
29
h-index

189801
50
g-index

74
all docs

74
docs citations

74
times ranked

1628
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravity wave initiation of equatorial spread F: A case study. <i>Journal of Geophysical Research</i> , 1981, 86, 9087-9100.	3.3	326
2	Polar cap electric field structures with a northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1979, 6, 21-24.	1.5	302
3	Longitudinal structure of the vertical E – B drift and ion density seen from ROCSAT. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	154
4	Imaging and modeling the ionospheric airglow response over Hawaii to the tsunami generated by the Tohoku earthquake of 11 March 2011. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	127
5	First observation of meteoritic charged dust in the tropical mesosphere. <i>Geophysical Research Letters</i> , 1998, 25, 4047-4050.	1.5	99
6	Observations of ion acoustic fluctuations in the auroral topside ionosphere by the FREJA S/C. <i>Geophysical Research Letters</i> , 1994, 21, 1835-1838.	1.5	82
7	Field-aligned 777.4-nm composite airglow images of equatorial plasma depletions. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	78
8	Longitudinal and seasonal dependence of nighttime equatorial plasma density irregularities during solar minimum detected on the C/NOFS satellite. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	77
9	Distinguishing Alfvén waves from quasi-static field structures associated with the discrete aurora: Sounding rocket and HILAT satellite measurements. <i>Geophysical Research Letters</i> , 1990, 17, 921-924.	1.5	74
10	Multiple sounding rocket observations of charged dust in the polar winter mesosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	63
11	Seeding of equatorial plasma depletions by polarization electric fields from middle latitudes: Experimental evidence. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	59
12	Evidence for two-dimensional inertial turbulence in a cosmic-scale low-beta plasma. <i>Astrophysical Journal</i> , 1978, 220, 339.	1.6	52
13	Intense ionospheric electric and magnetic field pulses generated by lightning. <i>Geophysical Research Letters</i> , 1990, 17, 2221-2224.	1.5	51
14	Observation and interpretation of particle and electric field measurements inside and adjacent to an active auroral arc. <i>Journal of Geophysical Research</i> , 1977, 82, 2349-2360.	3.3	50
15	Influence of an inertia-gravity wave on mesospheric dynamics: A case study with the Poker Flat Incoherent Scatter Radar. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	46
16	Rocket measurements within a polar cap arc: Plasma, particle, and electric circuit parameters. <i>Journal of Geophysical Research</i> , 1989, 94, 6692-6712.	3.3	45
17	Modeling of equatorial plasma bubbles triggered by non-equatorial traveling ionospheric disturbances. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	45
18	Highly structured tropical airglow and TEC signatures during strong geomagnetic activity. <i>Geophysical Research Letters</i> , 2000, 27, 465-468.	1.5	42

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19	Comparison of COSMIC occultation-based electron density profiles and TIP observations with Arecibo incoherent scatter radar data. <i>Radio Science</i> , 2009, 44, .	0.8	41
20	Lidar observations of elevated temperatures in bright chemiluminescent meteor trails during the 1998 Leonid Shower. <i>Geophysical Research Letters</i> , 2000, 27, 1815-1818.	1.5	40
21	Mesospheric charged dust layer: Implications for neutral chemistry. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	39
22	Thermospheric dark band structures observed in all-sky OI 630 nm emission images over the Brazilian low-latitude sector. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	39
23	Total electron content variations due to nonclassical traveling ionospheric disturbances: Theory and Global Positioning System observations. <i>Journal of Geophysical Research</i> , 1997, 102, 7279-7292.	3.3	37
24	First observations of long-lived meteor trains with resonance lidar and other optical instruments. <i>Geophysical Research Letters</i> , 2000, 27, 1811-1814.	1.5	37
25	First successful prediction of a convective equatorial ionospheric storm using solar wind parameters. <i>Space Weather</i> , 2008, 6, .	1.3	35
26	Large amplitude thermospheric oscillations induced by an earthquake. <i>Geophysical Research Letters</i> , 1985, 12, 577-580.	1.5	33
27	Imaging of Polar Mesosphere Summer Echoes with the 450 MHz Poker Flat Advanced Modular Incoherent Scatter Radar. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	33
28	C/NOFS observations of intermediate and transitional scale-size equatorial spread irregularities. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	31
29	Nonspecular meteor trails from non-aligned irregularities: Can they be explained by presence of charged meteor dust?. <i>Geophysical Research Letters</i> , 2014, 41, 3336-3343.	1.5	31
30	Large amplitude middle atmospheric electric fields: Fact or fiction?. <i>Geophysical Research Letters</i> , 1983, 10, 733-736.	1.5	30
31	Observations of overturning in the upper mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	29
32	Persistence of a Kelvin-Helmholtz instability complex in the upper troposphere. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	29
33	Two-dimensional turbulence, space shuttle plume transport in the thermosphere, and a possible relation to the Great Siberian Impact Event. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	28
34	Coordinated study of coherent radar backscatter and optical airglow depletions in the central Pacific. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
35	Structure and dynamics of sporadic layers of ionization in the ionospheric E region. <i>Radio Science</i> , 2002, 37, 18-1-18-12.	0.8	22
36	Optical observations of the development of secondary instabilities on the eastern wall of an equatorial plasma bubble. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	21

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37	LF and MF observations of the lightning electromagnetic pulse at ionospheric altitudes. <i>Geophysical Research Letters</i> , 1997, 24, 1111-1114.	1.5	20
38	Mesospheric turbulence measurements from persistent Leonid meteor train observations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	19
39	Detection of spatial density irregularities with the Viking plasma wave interferometer. <i>Geophysical Research Letters</i> , 1987, 14, 467-470.	1.5	18
40	C/NOFS and radar observations during a convective ionospheric storm event over South America. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	18
41	Radar, lidar, and optical observations in the polar summer mesosphere shortly after a space shuttle launch. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
42	Nonlinear saturation spectra of electric fields and density fluctuations in drift wave turbulence. <i>Physics of Fluids</i> , 1982, 25, 1002.	1.4	16
43	Simultaneous lidar observations of a noctilucent cloud and an internal wave in the polar mesosphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	16
44	Spectral evidence for stirring scales and two-dimensional turbulence in the auroral ionosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 11543-11548.	3.3	15
45	Gradient drift instability in midlatitude sporadic E layers: Localization of physical and wavenumber space. <i>Geophysical Research Letters</i> , 2000, 27, 457-460.	1.5	15
46	Three-dimensional modeling of the electromagnetic characteristics of equatorial plasma depletions. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3505-3514.	0.8	14
47	The semidiurnal variation in GPS-derived zenith neutral delay. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	13
48	On the local time dependence of the penetration of solar wind-induced electric fields to the magnetic equator. <i>Annales Geophysicae</i> , 2009, 27, 3027-3030.	0.6	12
49	In situ observations during an HF heating experiment at Arecibo: Evidence for Z-mode and electron cyclotron harmonic effects. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	11
50	Observations of midlatitude ionospheric instabilities generating meter-scale waves at the magnetic equator. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	11
51	Formation and eruption of Sun-aligned arcs at the polar cap-auroral oval boundary. <i>Journal of Geophysical Research</i> , 1994, 99, 17577.	3.3	10
52	Simultaneous observations of convective ionospheric storms: ROCSAT-1 and ground-based imagers. <i>Space Weather</i> , 2005, 3, n/a-n/a.	1.3	10
53	Multipoint measurements of large DC electric fields and shears in the auroral zone. <i>Geophysical Research Letters</i> , 1999, 26, 3369-3372.	1.5	9
54	A new explanation of persistent double meteor trains. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	9

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55	Radar scatter from equatorial electrojet waves: An explanation for the constancy of the Type I Doppler shift with zenith angle. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	9
56	On the Possible Detection of Lightning Storms by Elephants. <i>Animals</i> , 2013, 3, 349-355.	1.0	9
57	On the turbulent spectrum of equatorial spread F: A comparison between laboratory and space results. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 5-1-SIA 5-6.	3.3	8
58	On measuring the off-equatorial conductivity before and during convective ionospheric storms. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	8
59	Understanding Animal Detection of Precursor Earthquake Sounds. <i>Animals</i> , 2017, 7, 66.	1.0	8
60	Double laminar and turbulent meteor trails observed in space and simulated in the laboratory. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3622-3625.	0.8	7
61	Evidence for Gravity Wave Seeding of Convective Ionospheric Storms Possibly Initiated by Thunderstorms. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4046-4052.	0.8	7
62	Observations of strong gyro line spectra at Arecibo near dawn. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	6
63	On the distribution of ion density depletion along magnetic field lines as deduced using C/NOFS. <i>Radio Science</i> , 2012, 47, .	0.8	6
64	Unexpected rapid decrease in phase velocity of submeter Farley-Buneman waves with altitude. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	5
65	On structuring of the plasmopause. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	4
66	The main types of electron energy distribution determined by model fitting to optical emissions during HF wave ionospheric modification experiments. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3877-3890.	0.8	4
67	Reconciliation of rocket-based magnetic field measurements in the equatorial electrojet with classical collision theory. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	3
68	An explanation for parallel electric field pulses observed over thunderstorms. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	2
69	On a Correlation between the Ionospheric Electric Field and the Time Derivative of the Magnetic Field. <i>International Journal of Geophysics</i> , 2012, 2012, 1-5.	0.4	2
70	New observations of artificial aurora associated with TMA releases. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	1
71	Large-scale structures in the equatorial ionosphere and their connection to the generalized Rayleigh-Taylor instability. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2618-2622.	0.8	1
72	Waves from whistlers. <i>Nature Geoscience</i> , 2008, 1, 93-94.	5.4	0

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73	Interaction of a high-power UHF beam with the ionosphere. <i>Radio Science</i> , 2010, 45, n/a-n/a.	0.8	0
74	A suggestion that two-dimensional turbulence contributes to polar cap convection for <i>B_z</i> north. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	0