

Michael Kelley

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

2,256
citations

27
h-index

46
g-index

74
ext. papers

2,453
ext. citations

4.3
avg, IF

4.16
L-index

#	Paper	IF	Citations
70	Polar cap electric field structures with a northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1979 , 6, 21-24	4.9	274
69	Gravity wave initiation of equatorial spread F: A case study. <i>Journal of Geophysical Research</i> , 1981 , 86, 9087		266
68	Longitudinal structure of the vertical E \times B drift and ion density seen from ROCSAT-1. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	128
67	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	4.9	112
66	First observation of meteoritic charged dust in the tropical mesosphere. <i>Geophysical Research Letters</i> , 1998 , 25, 4047-4050	4.9	84
65	Observations of ion acoustic fluctuations in the auroral topside ionosphere by the FREJA S/C. <i>Geophysical Research Letters</i> , 1994 , 21, 1835-1838	4.9	73
64	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	4.9	70
63	Field-aligned 777.4-nm composite airglow images of equatorial plasma depletions. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	56
62	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	4.9	53
61	Multiple sounding rocket observations of charged dust in the polar winter mesosphere. <i>Journal of Geophysical Research</i> , 2005 , 110,		53
60	Seeding of equatorial plasma depletions by polarization electric fields from middle latitudes: Experimental evidence. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	51
59	Intense ionospheric electric and magnetic field pulses generated by lightning. <i>Geophysical Research Letters</i> , 1990 , 17, 2221-2224	4.9	45
58	Evidence for two-dimensional inertial turbulence in a cosmic-scale low-beta plasma. <i>Astrophysical Journal</i> , 1978 , 220, 339	4.7	45
57	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		44
56	Rocket measurements within a polar cap arc: Plasma, particle, and electric circuit parameters. <i>Journal of Geophysical Research</i> , 1989 , 94, 6692-6712		42
55	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,		40
54	Modeling of equatorial plasma bubbles triggered by non-equatorial traveling ionospheric disturbances. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	38

53	Lidar observations of elevated temperatures in bright chemiluminescent meteor trails during the 1998 Leonid Shower. <i>Geophysical Research Letters</i> , 2000 , 27, 1815-1818	4.9	36
52	Comparison of COSMIC occultation-based electron density profiles and TIP observations with Arecibo incoherent scatter radar data. <i>Radio Science</i> , 2009 , 44, n/a-n/a	1.4	34
51	First observations of long-lived meteor trains with resonance lidar and other optical instruments. <i>Geophysical Research Letters</i> , 2000 , 27, 1811-1814	4.9	33
50	Imaging of Polar Mesosphere Summer Echoes with the 450 MHz Poker Flat Advanced Modular Incoherent Scatter Radar. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	30
49	Mesospheric charged dust layer: Implications for neutral chemistry. <i>Journal of Geophysical Research</i> , 2005 , 110,		30
48	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		29
47	First successful prediction of a convective equatorial ionospheric storm using solar wind parameters. <i>Space Weather</i> , 2008 , 6, n/a-n/a	3.7	29
46	Highly structured tropical airglow and TEC signatures during strong geomagnetic activity. <i>Geophysical Research Letters</i> , 2000 , 27, 465-468	4.9	29
45	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, n/a-n/a		28
44	Large amplitude middle atmospheric electric fields: Fact or fiction?. <i>Geophysical Research Letters</i> , 1983 , 10, 733-736	4.9	28
43	Large amplitude thermospheric oscillations induced by an earthquake. <i>Geophysical Research Letters</i> , 1985 , 12, 577-580	4.9	27
42	C/NOFS observations of intermediate and transitional scale-size equatorial spread F irregularities. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	26
41	Persistence of a Kelvin-Helmholtz instability complex in the upper troposphere. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		25
40	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,	4.9	24
39	Observations of overturning in the upper mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2004 , 109,		23
38	Nonspecular meteor trails from non-field-aligned irregularities: Can they be explained by presence of charged meteor dust?. <i>Geophysical Research Letters</i> , 2014 , 41, 3336-3343	4.9	22
37	LF and MF observations of the lightning electromagnetic pulse at ionospheric altitudes. <i>Geophysical Research Letters</i> , 1997 , 24, 1111-1114	4.9	18
36	Coordinated study of coherent radar backscatter and optical airglow depletions in the central Pacific. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		17

35	C/NOFS and radar observations during a convective ionospheric storm event over South America. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	17
34	Structure and dynamics of sporadic layers of ionization in the ionospheric E region. <i>Radio Science</i> , 2002 , 37, 18-1-18-12	1.4	17
33	Detection of spatial density irregularities with the Viking plasma wave interferometer. <i>Geophysical Research Letters</i> , 1987 , 14, 467-470	4.9	17
32	Mesospheric turbulence measurements from persistent Leonid meteor train observations. <i>Journal of Geophysical Research</i> , 2003 , 108,		16
31	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,		15
30	Simultaneous lidar observations of a noctilucent cloud and an internal wave in the polar mesosphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		15
29	Nonlinear saturation spectra of electric fields and density fluctuations in drift wave turbulence. <i>Physics of Fluids</i> , 1982 , 25, 1002		15
28	Radar, lidar, and optical observations in the polar summer mesosphere shortly after a space shuttle launch. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		14
27	Gradient drift instability in midlatitude sporadic E layers: Localization of physical and wavenumber space. <i>Geophysical Research Letters</i> , 2000 , 27, 457-460	4.9	13
26	Spectral evidence for stirring scales and two-dimensional turbulence in the auroral ionosphere. <i>Journal of Geophysical Research</i> , 1993 , 98, 11543		13
25	The semidiurnal variation in GPS-derived zenith neutral delay. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	11
24	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	2	10
23	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,		10
22	Observations of midlatitude ionospheric instabilities generating meter-scale waves at the magnetic equator. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		9
21	Simultaneous observations of convective ionospheric storms: ROCSAT-1 and ground-based imagers. <i>Space Weather</i> , 2005 , 3, n/a-n/a	3.7	9
20	On the Possible Detection of Lightning Storms by Elephants. <i>Animals</i> , 2013 , 3, 349-55	3.1	7
19	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,	4.9	7
18	On measuring the off-equatorial conductivity before and during convective ionospheric storms. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	7

17	A new explanation of persistent double meteor trains. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	7
16	Multipoint measurements of large DC electric fields and shears in the auroral zone. <i>Geophysical Research Letters</i> , 1999 , 26, 3369-3372	4.9	7
15	Formation and eruption of Sun-aligned arcs at the polar cap-auroral oval boundary. <i>Journal of Geophysical Research</i> , 1994 , 99, 17577		7
14	Three-dimensional modeling of the electromagnetic characteristics of equatorial plasma depletions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3505-3514	2.6	6
13	Observations of strong gyro line spectra at Arecibo near dawn. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	6
12	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		6
11	Understanding Animal Detection of Precursor Earthquake Sounds. <i>Animals</i> , 2017 , 7,	3.1	5
10	On the distribution of ion density depletion along magnetic field lines as deduced using C/NOFS. <i>Radio Science</i> , 2012 , 47, n/a-n/a	1.4	5
9	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	2.6	3
8	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	2.6	3
7	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	2.6	3
6	Reconciliation of rocket-based magnetic field measurements in the equatorial electrojet with classical collision theory. <i>Journal of Geophysical Research</i> , 2012 , 117,		3
5	On structuring of the plasmopause. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	3
4	Unexpected rapid decrease in phase velocity of submeter Farley-Buneman waves with altitude. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	3
3	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	2	2
2	An explanation for parallel electric field pulses observed over thunderstorms. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		2
1	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	2.6	1