

Michael J Nicolls

List of Publications by Year in Descending Order

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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.

47
papers

1,251
citations

20
h-index

34
g-index

47
ext. papers

1,379
ext. citations

3
avg, IF

4.25
L-index

#	Paper	IF	Citations
47	PFISR observation of intense ion upflow fluxes associated with an SED during the 1 June 2013 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2589-2604	2.6	13
46	RISR-N observations of the IMF By influence on reverse convection during extreme northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3707-3720	2.6	4
45	Strong ambipolar-driven ion upflow within the cleft ion fountain during low geomagnetic activity. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6950-6969	2.6	7
44	Ionospheric ion temperature climate and upper atmospheric long-term cooling. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8951-8968	2.6	31
43	Investigation of a rare event where the polar ionospheric reverse convection potential does not saturate during a period of extreme northward IMF solar wind driving. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5422-5435	2.6	10
42	Localized field-aligned currents in the polar cap associated with airglow patches. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,172-10,189	2.6	13
41	Excitation of gravity waves by ocean surface wave packets: Upward propagation and reconstruction of the thermospheric gravity wave field. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 9748-9780	2.6	25
40	Ionospheric ion temperature forecasting in multiples of 27 days. <i>Space Weather</i> , 2014 , 12, 148-160	3.7	2
39	Direct measurement of lower thermospheric neutral density using multifrequency incoherent scattering. <i>Geophysical Research Letters</i> , 2014 , 41, 8147-8154	4.9	6
38	Estimating the vector electric field using monostatic, multibeam incoherent scatter radar measurements. <i>Radio Science</i> , 2014 , 49, 1124-1139	1.4	18
37	A top to bottom evaluation of IRI 2007 within the polar cap. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6689-6703	2.6	48
36	On the generation/decay of the storm-enhanced density plumes: Role of the convection flow and field-aligned ion flow. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8543-8559	2.6	47
35	Horizontal parameters of daytime thermospheric gravity waves and E region neutral winds over Puerto Rico. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 575-600	2.6	30
34	Comparison of SuperDARN irregularity drift measurements and F-region ion velocities from the resolute bay ISR. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013 , 105-106, 325-331	2	7
33	Statistical comparison of TEC derived from GPS and ISR observations at high latitudes. <i>Radio Science</i> , 2013 , 48, 441-452	1.4	13
32	Electrodynamics of the high-latitude trough: Its relationship with convection flows and field-aligned currents. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2565-2572	2.6	18
31	Multi-instrument observations of SED during 24-25 October 2011 storm: Implications for SED formation processes. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7798-7809	2.6	41

30	Global observations of E region plasma density morphology and variability. <i>Journal of Geophysical Research</i> , 2012 , 117,		6
29	The electron density dependence of polar mesospheric summer echoes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011 , 73, 2153-2165	2	29
28	24/7 Solar minimum polar cap and auroral ion temperature observations. <i>Advances in Space Research</i> , 2011 , 48, 1-11	2.4	3
27	Initial ionospheric observations made by the new Resolute incoherent scatter radar and comparison to solar wind IMF. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	32
26	Spectacular low- and mid-latitude electrical fields and neutral winds during a superstorm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 285-291	2	19
25	Determination of physical and radiant meteor properties using PFISR interferometry measurements of head echoes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 1221-1230 ²		11
24	Spectral observations of polar mesospheric summer echoes at 33 cm (450 MHz) with the Poker Flat Incoherent Scatter Radar. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 662-674	2	19
23	Meteor-head echo observations using an antenna compression approach with the 450MHz Poker Flat Incoherent Scatter Radar. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 636-643	2	13
22	Volumetric imaging of the auroral ionosphere: Initial results from PFISR. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 738-743	2	29
21	Observations of polar mesospheric summer echoes using PFISR during the summer of 2007. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 470-476	2	8
20	Temporal evolution of neutral, thermospheric winds and plasma response using PFISR measurements of gravity waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 744-770 ²		48
19	Using PFISR measurements and gravity wave dissipative theory to determine the neutral, background thermospheric winds. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	18
18	Inferring D region parameters using improved incoherent scatter radar techniques at Arecibo. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		8
17	A Bayesian approach to electric field and E-region neutral wind estimation with the Poker Flat Advanced Modular Incoherent Scatter Radar. <i>Radio Science</i> , 2008 , 43, n/a-n/a	1.4	94
16	Observations of plasma line splitting in the ionospheric incoherent scatter spectrum. <i>Physical Review Letters</i> , 2008 , 100, 045005	7.4	7
15	Diurnal variability of the gyro resonance line observed with the Arecibo incoherent scatter radar at E- and F1-region altitudes. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	2
14	Molecular ion composition measurements in the F1 region at Arecibo. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		12
13	Three-dimensional measurements of traveling ionospheric disturbances with the Poker Flat Incoherent Scatter Radar. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	63

12	The spectral properties of low latitude daytime electric fields inferred from magnetometer observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 1160-1173	2	23
11	Discrepancy between the nighttime molecular ion composition given by the International Reference Ionosphere model and airglow measurements at low latitudes. <i>Journal of Geophysical Research</i> , 2006 , 111,		9
10	Daytime F region ion energy balance at Arecibo for moderate to high solar flux conditions. <i>Journal of Geophysical Research</i> , 2006 , 111,		17
9	Modeling of airglow and ionospheric parameters at Arecibo during quiet and disturbed periods in October 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		23
8	Strong evidence for gravity wave seeding of an ionospheric plasma instability. <i>Geophysical Research Letters</i> , 2005 , 32,	4-9	33
7	Instantaneous electric field measurements and derived neutral winds at Arecibo. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4-9	21
6	An energy balance study of the lower topside ionosphere using the Arecibo incoherent scatter radar and heating facilities. <i>Journal of Geophysical Research</i> , 2005 , 110,		6
5	Solar cycle variability of nighttime topside helium ion concentrations over Arecibo. <i>Journal of Geophysical Research</i> , 2004 , 109,		21
4	Imaging the structure of a large-scale TID using ISR and TEC data. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4-9	82
3	Intense nighttime flux from the plasmasphere during a modest magnetic storm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003 , 65, 1099-1105	2	9
2	Penetration of the solar wind electric field into the magnetosphere/ionosphere system. <i>Geophysical Research Letters</i> , 2003 , 30,	4-9	202
1	Case studies of coupling between the E and F regions during unstable sporadic-E conditions. <i>Journal of Geophysical Research</i> , 2003 , 108,		51