

Phil Richards

List of Publications by Year in descending order

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49
papers

2,822
citations

249298

26
h-index

242451

47
g-index

50
all docs

50
docs citations

50
times ranked

1895
citing authors

#	ARTICLE	IF	CITATIONS
1	Weak Magnetic Storms Can Modulate Ionosphere-Plasmasphere Interaction Significantly: Mechanisms and Manifestations at Mid-Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9665-9675.	0.8	13
2	Investigation of the Electron Density Variation During the 21 August 2017 Solar Eclipse. <i>Geophysical Research Letters</i> , 2018, 45, 1253-1261.	1.5	29
3	Investigation of the Causes of the Longitudinal and Solar Cycle Variation of the Electron Density in the Bering Sea and Weddell Sea Anomalies. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7825-7842.	0.8	9
4	Coincident Observations by the Kharkiv IS Radar and Ionosonde, DMSP and Arase (ERG) Satellites, and FLIP Model Simulations: Implications for the NRLMSISE-00 Hydrogen Density, Plasmasphere, and Ionosphere. <i>Geophysical Research Letters</i> , 2018, 45, 8062-8071.	1.5	17
5	Investigation of the causes of the longitudinal variation of the electron density in the Weddell Sea Anomaly. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6562-6583.	0.8	23
6	Ionospheric total electron content: Spatial patterns of variability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,367.	0.8	29
7	The importance of neutral hydrogen for the maintenance of the midlatitude winter nighttime ionosphere: Evidence from IS observations at Kharkiv, Ukraine, and field line interhemispheric plasma model simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7013-7025.	0.8	14
8	The collapse of the midnight ionosphere and behavior of meridional neutral winds at Townsville over a full solar cycle. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9826-9838.	0.8	4
9	Investigation of sudden electron density depletions observed in the dusk sector by the Poker Flat, Alaska incoherent scatter radar in summer. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,608.	0.8	7
10	How does solar eclipse influence the complex behavior of midlatitude ionosphere? Two case studies. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1157-1171.	0.8	4
11	The International Reference Ionosphere 2012 – a model of international collaboration. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A07.	1.1	503
12	Reevaluation of thermosphere heating by auroral electrons. <i>Advances in Space Research</i> , 2013, 51, 610-619.	1.2	10
13	O ⁺ , H ⁺ , and He ⁺ Densities from the 200-1600 km Altitude Ionosphere at Arecibo: A Comparison of Theory and Measurement. <i>Geophysical Monograph Series</i> , 2013, , 167-171.	0.1	1
14	Energy Characterization of a Dynamic Auroral Event Using GGS UVI Images. <i>Geophysical Monograph Series</i> , 2013, , 143-147.	0.1	8
15	Re-evaluation of thermosphere heating by solar EUV and UV radiation ¹This article is part of a Special issue that honours the work of Dr. Donald M. Hunten FRSC who passed away in December 2010 after a very illustrious career.. <i>Canadian Journal of Physics</i> , 2012, 90, 759-767.	0.4	4
16	Dawnward shift of the dayside O ⁺ outflow distribution: The importance of field line history in O ⁺ escape from the ionosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
17	Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
18	Solar flux variation of the electron temperature morning overshoot in the equatorial <i>F</i> region. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	25

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19	Reexamination of ionospheric photochemistry. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	58
20	Ion density calculator (IDC): A new efficient model of ionospheric ion densities. <i>Radio Science</i> , 2010, 45, n/a-n/a.	0.8	33
21	On the consistency of satellite measurements of thermospheric composition and solar EUV irradiance with Australian ionosonde electron density data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30
22	Photoelectrons as a tool to evaluate spectral variations in solar EUV irradiance over solar cycle timescales. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	18
23	Measured and modeled ionospheric densities, temperatures, and winds during the international polar year. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	25
24	Temporal and spectral variations of the photoelectron flux and solar irradiance during an X class solar flare. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	6
25	On the increases in nitric oxide density at midlatitudes during ionospheric storms. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	51
26	Simulating plasmaspheric field-aligned density profiles measured with IMAGE/RPI: Effects of plasmasphere refilling and ion heating. <i>Journal of Geophysical Research</i> , 2003, 108, SMP 12-1.	3.3	30
27	Ion and neutral density variations during ionospheric storms in September 1974: Comparison of measurement and models. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 8-1.	3.3	43
28	An investigation of ionospheric responses, and disturbance thermospheric winds, during magnetic storms over South American sector. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 12-1.	3.3	27
29	Seasonal and solar cycle variations of the ionospheric peak electron density: Comparison of measurement and models. <i>Journal of Geophysical Research</i> , 2001, 106, 12803-12819.	3.3	142
30	On the relative importance of convection and temperature to the behavior of the ionosphere in North America during January 6-12, 1997. <i>Journal of Geophysical Research</i> , 2000, 105, 12763-12776.	3.3	49
31	Behavior of the ionosphere and thermosphere at a southern midlatitude station during magnetic storms in early March 1995. <i>Journal of Geophysical Research</i> , 1998, 103, 26421-26432.	3.3	30
32	Analysis of auroral morphology: Substorm precursor and onset on January 10, 1997. <i>Geophysical Research Letters</i> , 1998, 25, 3043-3046.	1.5	30
33	The ionosphere and thermosphere at southern midlatitudes during the November 1993 ionospheric storm: A comparison of measurement and modeling. <i>Journal of Geophysical Research</i> , 1998, 103, 9373-9389.	3.3	36
34	Thermospheric neutral winds at southern mid-latitudes: A comparison of optical and ionosonde/mF2 methods. <i>Journal of Geophysical Research</i> , 1997, 102, 27189-27196.	3.3	46
35	Remote determination of auroral energy characteristics during substorm activity. <i>Geophysical Research Letters</i> , 1997, 24, 995-998.	1.5	108
36	Comparison of techniques for derivation of neutral meridional winds from ionospheric data. <i>Journal of Geophysical Research</i> , 1997, 102, 14477-14484.	3.3	34

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37	EUVAC: A solar EUV Flux Model for aeronomic calculations. Journal of Geophysical Research, 1994, 99, 8981.	3.3	779
38	Mesospheric nightglow spectral survey taken by the ISO Spectral Spatial Imager on ATLAS 1. Geophysical Research Letters, 1993, 20, 515-518.	1.5	10
39	Reevaluation of the $O^{+}(\hat{A}^2P)$ reaction rate coefficients derived from Atmosphere Explorer C observations. Journal of Geophysical Research, 1993, 98, 15589-15597.	3.3	35
40	An improved algorithm for determining neutral winds from the height of the F_2 peak electron density. Journal of Geophysical Research, 1991, 96, 17839-17846.	3.3	107
41	A midlatitude interhemispheric model of the $O^{+}(2P)$ airglow emission at 7320 Å... Geophysical Research Letters, 1990, 17, 65-68.	1.5	7
42	Auroral modeling of the 3371 Å... emission rate: Dependence on characteristic electron energy. Journal of Geophysical Research, 1990, 95, 10337-10344.	3.3	43
43	Mid- and low-latitude model of thermospheric emissions: 1. $O^{+}(\hat{A}^2P)$ 7320 Å... and $N_2(2P)$ 3371 Å... Journal of Geophysical Research, 1990, 95, 21147-21168.	3.3	96
44	Thermal electron quenching of $N(2D)$: Consequences for the ionospheric photoelectron flux and the thermal electron temperature. Planetary and Space Science, 1986, 34, 689-694.	0.9	25
45	Seasonal, diurnal, and solar cyclical variations of the limiting H^{+} flux in the Earth's topside ionosphere. Journal of Geophysical Research, 1985, 90, 5261-5268.	3.3	93
46	Results of a comprehensive study of the photochemistry of N_2^{+} in the ionosphere. Journal of Geophysical Research, 1984, 89, 9069-9079.	3.3	47
47	A Simple theoretical model for calculating and parameterizing the ionospheric photoelectron flux. Journal of Geophysical Research, 1983, 88, 2155-2162.	3.3	34
48	Solar EUV energy budget of the thermosphere. Advances in Space Research, 1981, 1, 53-61.	1.2	11
49	Preliminary Results from the Imaging Spectrometric Observatory Flown on ATLAS 1. Geophysical Monograph Series, 0, , 305-322.	0.1	1