

Alexander Koustov

List of Publications by Year in descending order

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62
papers

879
citations

430874

18
h-index

580821

25
g-index

72
all docs

72
docs citations

72
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	Refractive index effects on the scatter volume location and Doppler velocity estimates of ionospheric HF backscatter echoes. <i>Annales Geophysicae</i> , 2009, 27, 4207-4219.	1.6	50
2	Comparison of DMSP cross-track ion drifts and SuperDARN line-of-sight velocities. <i>Annales Geophysicae</i> , 2005, 23, 2479-2486.	1.6	48
3	Evolution of ionospheric multicell convection during northward interplanetary magnetic field with $ B_z/B_y > 1$. <i>Journal of Geophysical Research</i> , 2000, 105, 27095-27107.	3.3	40
4	On the factors controlling occurrence of F-region coherent echoes. <i>Annales Geophysicae</i> , 2002, 20, 1385-1397.	1.6	34
5	On the relationship between the velocity of E-region HF echoes and $\mathbf{E} \times \mathbf{B}$ plasma drift. <i>Annales Geophysicae</i> , 2005, 23, 371-378.	1.6	30
6	Seasonal variation of HF radar F-region echo occurrence in the midnight sector. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	29
7	Observations of high-velocity SAPS-like flows with the King Salmon SuperDARN radar. <i>Annales Geophysicae</i> , 2006, 24, 1591-1608.	1.6	29
8	SuperDARN convection and Sondrestrom plasma drift. <i>Annales Geophysicae</i> , 2001, 19, 749-759.	1.6	25
9	IMF By effects in the magnetospheric convection on closed magnetic field lines. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	25
10	Simultaneous HF measurements of E- and F-region Doppler velocities at large flow angles. <i>Annales Geophysicae</i> , 2004, 22, 1177-1185.	1.6	24
11	HF ground scatter from the polar cap: Ionospheric propagation and ground surface effects. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
12	Examining the Potential of the Super Dual Auroral Radar Network for Monitoring the Space Weather Impact of Solar X-ray Flares. <i>Space Weather</i> , 2018, 16, 1348-1362.	3.7	23
13	PCN magnetic index and average convection velocity in the polar cap inferred from SuperDARN radar measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	21
14	Monitoring the F-region peak electron density using HF backscatter interferometry. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	21
15	Observations of 50- and 12-MHz auroral coherent echoes at the Antarctic Syowa station. <i>Journal of Geophysical Research</i> , 2001, 106, 12875-12887.	3.3	20
16	Velocities of auroral coherent echoes at 12 and 144 MHz. <i>Annales Geophysicae</i> , 2002, 20, 1647-1661.	1.6	19
17	Time evolution of the subauroral electric fields: A case study during a sequence of two substorms. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
18	Velocity of E-region HF echoes under strongly-driven electrojet conditions. <i>Annales Geophysicae</i> , 2012, 30, 235-250.	1.6	19

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19	A Comparison of Cross-Track Ion Drift Measured by the Swarm Satellites and Plasma Convection Velocity Measured by SuperDARN. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4710-4724.	2.4	17
20	Three-way validation of the Rankin Inlet PolarDARN radar velocity measurements. <i>Radio Science</i> , 2009, 44, .	1.6	16
21	Coordinated observations of nighttime medium-scale traveling ionospheric disturbances in 630-nm airglow and HF radar echoes at midlatitudes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16
22	Spherical cap harmonic analysis of Super Dual Auroral Radar Network (SuperDARN) observations for generating maps of ionospheric convection. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
23	Seasonal and diurnal variations of PolarDARN F region echo occurrence in the polar cap and their causes. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,426.	2.4	16
24	CUTLASS HF radar observations of high-velocity E-region echoes. <i>Annales Geophysicae</i> , 2001, 19, 411-424.	1.6	15
25	Multifrequency measurements of HF Doppler velocity in the auroral region. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 25-1-SIA 25-12.	3.3	13
26	Aspect angle dependence of the $\langle v_E \rangle$ region irregularity velocity at large flow angles. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
27	Dependence of SuperDARN cross polar cap potential upon the solar wind electric field and magnetopause subsolar distance. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	13
28	On the power-velocity relationship for 12- and 50-MHz auroral coherent echoes. <i>Journal of Geophysical Research</i> , 2001, 106, 15455-15469.	3.3	12
29	Response of ionospheric convection to sharp southward IMF turnings inferred from magnetometer and radar data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
30	Variations in the occurrence of SuperDARN F region echoes. <i>Annales Geophysicae</i> , 2014, 32, 147-156.	1.6	12
31	Substorm onset times as derived from geomagnetic indices. <i>Geophysical Research Letters</i> , 2002, 29, 1341-1344.	4.0	11
32	Heights of SuperDARN F region echoes estimated from the analysis of HF radio wave propagation. <i>Annales Geophysicae</i> , 2007, 25, 1987-1994.	1.6	11
33	On the SuperDARN cross polar cap potential saturation effect. <i>Annales Geophysicae</i> , 2009, 27, 3755-3764.	1.6	11
34	Seasonal and solar cycle variations in the ionospheric convection reversal boundary location inferred from monthly SuperDARN data sets. <i>Annales Geophysicae</i> , 2016, 34, 227-239.	1.6	11
35	A study of aspect angle effects in the E-region irregularity velocity using multi-point electric field measurements. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	10
36	Electron density and electric field over Resolute Bay and F region ionospheric echo detection with the Rankin Inlet and Inuvik SuperDARN radars. <i>Radio Science</i> , 2014, 49, 1194-1205.	1.6	10

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37	Calibration and assessment of Swarm ion drift measurements using a comparison with a statistical convection model. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	10
38	Signatures of moving polar cap arcs in the F-region PolarDARN echoes. <i>Annales Geophysicae</i> , 2012, 30, 441-455.	1.6	9
39	Resolute Bay CADI ionosonde drifts, PolarDARN HF velocities, and cross polar cap potential. <i>Radio Science</i> , 2012, 47, .	1.6	9
40	Occurrence of F region echoes for the polar cap SuperDARN radars. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	8
41	E�CHAIM as a Model of Total Electron Content: Performance and Diagnostics. <i>Space Weather</i> , 2021, 19, e2021SW002872.	3.7	8
42	A Comparison of the Topside Electron Density Measured by the Swarm Satellites and Incoherent Scatter Radars Over Resolute Bay, Canada. <i>Radio Science</i> , 2021, 56, e2021RS007326.	1.6	8
43	A first comparison of irregularity and ion drift velocity measurements in the E-region. <i>Annales Geophysicae</i> , 2006, 24, 2375-2389.	1.6	7
44	Statistical study of midlatitude E region echoes observed by the Hokkaido SuperDARN HF radar. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9959-9976.	2.4	7
45	On the consistency of the SuperDARN radar velocity and E� plasma drift. <i>Radio Science</i> , 2016, 51, 1792-1805.	1.6	7
46	Seasonal effect for polar cap sunward plasma flows at strongly northward IMF B _z . <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2530-2541.	2.4	7
47	Observations of double-peaked Eregion coherent spectra with the CUTLASS Finland HF radar. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	6
48	Volume cross section of auroral radar backscatter and RMS plasma fluctuations inferred from coherent and incoherent scatter data: a response on backscatter volume parameters. <i>Annales Geophysicae</i> , 2011, 29, 1081-1092.	1.6	6
49	Hokkaido HF radar signatures of periodically reoccurring nighttime medium-scale traveling ionospheric disturbances detected at short ranges. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1200-1218.	2.4	6
50	Large-scale Comparison of Polar Cap Ionospheric Velocities Measured by RISR�, RISR�N, and SuperDARN. <i>Radio Science</i> , 2018, 53, 624-639.	1.6	6
51	Comparison of SuperDARN peak electron density estimates based on elevation angle measurements to ionosonde and incoherent scatter radar measurements. <i>Earth, Planets and Space</i> , 2020, 72, 43.	2.5	6
52	STARE velocity at large flow angles: is it related to the ion acoustic speed?. <i>Annales Geophysicae</i> , 2006, 24, 873-885.	1.6	5
53	Poker Flat Incoherent Scatter Radar observations of anomalous electron heating in the E region. <i>Annales Geophysicae</i> , 2013, 31, 1163-1176.	1.6	5
54	Interhemispheric Asymmetry of the Sunward Plasma Flows for Strongly Dominant IMF B _z < Z >. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 315-325.	2.4	5

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55	Long-term variations in the intensity of polar cap plasma flows inferred from SuperDARN. Journal of Geophysical Research: Space Physics, 2015, 120, 9722-9737.	2.4	4
56	A comparison of CADL-inferred $\langle i \rangle F \langle /i \rangle$ region plasma convection and DMSP ion drift above Resolute Bay. Radio Science, 2007, 42, .	1.6	3
57	Dependence of spectral width of ionospheric F region HF echoes on electric field. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	3
58	Optimal $\langle i \rangle F \langle /i \rangle$ Region Electron Density for the PolarDARN Radar Echo Detection Near the Resolute Bay Zenith. Radio Science, 2018, 53, 1002-1013.	1.6	3
59	Echo occurrence in the southern polar ionosphere for the SuperDARN Dome C East and Dome C North radars. Polar Science, 2021, 28, 100684.	1.2	3
60	Interplanetary magnetic field control and magnetic conjugacy of auroral $\langle i \rangle E \langle /i \rangle$ region backscatter. Journal of Geophysical Research, 2012, 117, .	3.3	2
61	Validation of Clyde River SuperDARN radar velocity measurements with the RISR-C incoherent scatter radar. Annales Geophysicae, 2018, 36, 1657-1666.	1.6	1
62	Velocity of SuperDARN Echoes at Intermediate Radar Ranges. Radio Science, 2020, 55, .	1.6	1