

Aleksandr Ukhorskiy

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

3,707
citations

109137

35
h-index

128067

60
g-index

78
all docs

78
docs citations

78
times ranked

1731
citing authors

#	ARTICLE	IF	CITATIONS
1	Van Allen Probes Observations of Symmetric Stormtime Compressional ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	7
2	Cross-scale energy cascade powered by magnetospheric convection. <i>Scientific Reports</i> , 2022, 12, 4446.	1.6	6
3	Untangling the Solar Wind and Magnetospheric Drivers of the Radiation Belt Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	15
4	Investigating the Link Between Outer Radiation Belt Losses and Energetic Electron Escape at the Magnetopause: A Case Study Using Multi-Mission Observations and Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029261.	0.8	2
5	Superposed Epoch Analysis of Dispersionless Particle Injections Inside Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029546.	0.8	9
6	Modeling Kelvin-Helmholtz Instability at the High-Latitude Boundary Layer in a Global Magnetosphere Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094002.	1.5	12
7	Outer radiation belt losses by magnetopause incursions and outward radial transport: new insight and outstanding questions from the Van Allen Probes era. , 2020, , 1-28.		14
8	Particle Dynamics in the Earth's Radiation Belts: Review of Current Research and Open Questions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026735.	0.8	81
9	Ballooning-Interchange Instability in the Near-Earth Plasma Sheet and Auroral Beads: Global Magnetospheric Modeling at the Limit of the MHD Approximation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088227.	1.5	59
10	Reconstruction of Extreme Geomagnetic Storms: Breaking the Data Paucity Curse. <i>Space Weather</i> , 2020, 18, e2020SW002561.	1.3	10
11	Dynamic Properties of Particle Injections Inside Geosynchronous Orbit: A Multisatellite Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028215.	0.8	4
12	Pitch Angle Dependence of Electron and Ion Flux Changes During Local Magnetic Dipolarization Inside Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027543.	0.8	8
13	Storm Time Plasma Pressure Inferred From Multimission Measurements and Its Validation Using Van Allen Probes Particle Data. <i>Space Weather</i> , 2020, 18, e2020SW002583.	1.3	9
14	How whistler mode hiss waves and the plasmasphere drive the quiet decay of radiation belts electrons following a geomagnetic storm. <i>Journal of Physics: Conference Series</i> , 2020, 1623, 012005.	0.3	8
15	Solar Wind Ion Entry Into the Magnetosphere During Northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5461-5481.	0.8	34
16	Global Empirical Picture of Magnetospheric Substorms Inferred From Multimission Magnetometer Data. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1085-1110.	0.8	41
17	Wave-Particle Interactions in Earth's Inner Magnetosphere: Experimental Results from BARREL. , 2019, , .		0
18	Contribution of Bursty Bulk Flows to the Global Dipolarization of the Magnetotail During an Isolated Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8647-8668.	0.8	58

#	ARTICLE	IF	CITATIONS
19	Kinetic Properties of Mesoscale Plasma Injections. , 2019, , .		1
20	Low-Energy ($< \text{keV} >$) O^{+} Ion Outflow Directly Into the Inner Magnetosphere: Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 405-419.	0.8	32
21	Observations and Fokker-Planck Simulations of the L -Shell, Energy, and Pitch Angle Structure of Earth's Electron Radiation Belts During Quiet Times. Journal of Geophysical Research: Space Physics, 2019, 124, 1125-1142.	0.8	37
22	Empirical Modeling of Extreme Events: Storm-Time Geomagnetic Field, Electric Current, and Pressure Distributions. , 2018, , 259-279.		11
23	Ion Trapping and Acceleration at Dipolarization Fronts: High-Resolution MHD and Test-Particle Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 5580-5589.	0.8	48
24	Energetic Ion Injections Inside Geosynchronous Orbit: Convection- and Drift-Dominated, Charge-Dependent Adiabatic Energization ($\langle W \rangle = \langle qEd \rangle$). Journal of Geophysical Research: Space Physics, 2018, 123, 6360-6382.	0.8	20
25	Modeling the Depletion and Recovery of the Outer Radiation Belt During a Geomagnetic Storm: Combined MHD and Test Particle Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 5590-5609.	0.8	47
26	A Census of Plasma Waves and Structures Associated With an Injection Front in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 2566-2587.	0.8	23
27	Response of Different Ion Species to Local Magnetic Dipolarization Inside Geosynchronous Orbit. Journal of Geophysical Research: Space Physics, 2018, 123, 5420-5434.	0.8	13
28	Ion acceleration at dipolarization fronts in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 3040-3054.	0.8	41
29	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 11,481.	0.8	42
30	Second harmonic poloidal waves observed by Van Allen Probes in the dusk-midnight sector. Journal of Geophysical Research: Space Physics, 2017, 122, 3013-3039.	0.8	39
31	Energetic particle loss through the magnetopause: A combined global MHD and test-particle study. Journal of Geophysical Research: Space Physics, 2017, 122, 9329-9343.	0.8	38
32	Reproducing the observed energy-dependent structure of Earth's electron radiation belts during storm recovery with an event-specific diffusion model. Geophysical Research Letters, 2016, 43, 5616-5625.	1.5	71
33	Empirical modeling of the storm time innermost magnetosphere using Van Allen Probes and THEMIS data: Eastward and banana currents. Journal of Geophysical Research: Space Physics, 2016, 121, 157-170.	0.8	40
34	Storm time dynamics of ring current protons: Implications for the long-term energy budget in the inner magnetosphere. Geophysical Research Letters, 2016, 43, 4736-4744.	1.5	44
35	Spatial structure and temporal evolution of energetic particle injections in the inner magnetosphere during the 14 July 2013 substorm event. Journal of Geophysical Research: Space Physics, 2015, 120, 1924-1938.	0.8	49
36	Link between premidnight second harmonic poloidal waves and auroral undulations: Conjugate observations with a Van Allen Probe spacecraft and a THEMIS all-sky imager. Journal of Geophysical Research: Space Physics, 2015, 120, 1814-1831.	0.8	14

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37	Global storm time depletion of the outer electron belt. Journal of Geophysical Research: Space Physics, 2015, 120, 2543-2556.	0.8	45
38	The role of small-scale ion injections in the buildup of Earth's ring current pressure: Van Allen Probes observations of the 17 March 2013 storm. Journal of Geophysical Research: Space Physics, 2014, 119, 7327-7342.	0.8	91
39	Rotationally driven "zebra stripes" in Earth's inner radiation belt. Nature, 2014, 507, 338-340.	13.7	42
40	Preferential acceleration of heavy ions in the reconnection outflow region. Astronomy and Astrophysics, 2014, 562, A58.	2.1	14
41	Enhanced radial transport and energization of radiation belt electrons due to drift orbit bifurcations. Journal of Geophysical Research: Space Physics, 2014, 119, 163-170.	0.8	24
42	Dynamics of Radiation Belt Particles. Space Science Reviews, 2013, 179, 545-578.	3.7	51
43	Rapid acceleration of protons upstream of earthward propagating dipolarization fronts. Journal of Geophysical Research: Space Physics, 2013, 118, 4952-4962.	0.8	41
44	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission. Space Science Reviews, 2013, 179, 3-27.	3.7	841
45	Radiation Belt Storm Probes Ion Composition Experiment (RBSPICE). Space Science Reviews, 2013, 179, 263-308.	3.7	155
46	Acceleration of ions in the Jupiter magnetotail: Particle resonant interaction with dipolarization fronts. Planetary and Space Science, 2013, 82-83, 134-148.	0.9	18
47	Global characteristics of electromagnetic ion cyclotron waves: Occurrence rate and its storm dependence. Journal of Geophysical Research: Space Physics, 2013, 118, 4135-4150.	0.8	120
48	Forecasting of global data binning parameters for high-resolution empirical geomagnetic field models. Space Weather, 2012, 10, .	1.3	12
49	Dynamics of Radiation Belt Particles. , 2012, , 545-578.		8
50	The role of drift orbit bifurcations in energization and loss of electrons in the outer radiation belt. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	51
51	Radiation belt storm probes: Resolving fundamental physics with practical consequences. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1417-1424.	0.6	22
52	Empirical modeling of a CIR-driven magnetic storm. Journal of Geophysical Research, 2010, 115, .	3.3	38
53	Rapid scattering of radiation belt electrons by storm-time EMIC waves. Geophysical Research Letters, 2010, 37, .	1.5	135
54	Spatial distribution of relativistic electron precipitation during a radiation belt depletion event. Geophysical Research Letters, 2010, 37, .	1.5	27

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55	Radial transport of radiation belt electrons due to stormtime Pc5 waves. <i>Annales Geophysicae</i> , 2009, 27, 2173-2181.	0.6	80
56	Radial transport in the outer radiation belt due to global magnetospheric compressions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1714-1726.	0.6	40
57	Title is missing!. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, v.	0.6	1
58	Dynamical data-based modeling of the storm-time geomagnetic field with enhanced spatial resolution. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	77
59	Timing analysis of the relationship between solar wind parameters and geosynchronous Pc5 amplitude. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	29
60	Solar wind control of Pc5 pulsation power at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
61	Impact of ULF oscillations in solar wind dynamic pressure on the outer radiation belt electrons. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	61
62	Storm time evolution of the outer radiation belt: Transport and losses. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	155
63	Impact of toroidal ULF waves on the outer radiation belt electrons. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	72
64	Storm time dawn-dusk asymmetry of the large-scale Birkeland currents. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	39
65	Global and Multiscale Phenomena of the Magnetosphere. , 2005, , 117-143.		5
66	ROLES OF CHAOS, SELF-ORGANIZED CRITICALITY AND PHASE TRANSITIONS IN MAGNETOSPHERIC PHYSICS. , 2005, , 195-215.		0
67	Global and multi-scale features of solar wind-magnetosphere coupling: From modeling to forecasting. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	41
68	Data-derived forecasting model for relativistic electron intensity at geosynchronous orbit. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	44
69	Modeling the magnetosphere using time series data. <i>Geophysical Monograph Series</i> , 2003, , 231-241.	0.1	3
70	Combining global and multi-scale features in a description of the solar wind-magnetosphere coupling. <i>Annales Geophysicae</i> , 2003, 21, 1913-1929.	0.6	21
71	Global and multiscale aspects of magnetospheric dynamics in local-linear filters. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 15-1.	3.3	20
72	Observations of electromagnetic ion cyclotron waves during geomagnetic storms: Wave occurrence and pitch angle scattering. <i>Journal of Geophysical Research</i> , 2001, 106, 3883-3895.	3.3	198

#	ARTICLE	IF	CITATIONS
73	Nonlinear Radial Transport in the Earth's Radiation Belts. Geophysical Monograph Series, 0, , 151-160.	0.1	6