Alexander Y Drozdov

List of Publications by Year
in descending order

45 papers	1,854 citations	430874 18 h-index	265206 42 g-index
45 all docs	45 docs citations	45 times ranked	1400 citing authors

#	Article	IF	Citations
1	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	8.1	332
2	Effect of EMIC waves on relativistic and ultrarelativistic electron populations: Groundâ€based and Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1375-1381.	4.0	294
3	Unusual stable trapping of the ultrarelativistic electrons in the Van Allen radiation belts. Nature Physics, 2013, 9, 699-703.	16.7	143
4	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1351-1358.	4.0	127
5	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. Nature Communications, 2016, 7, 12883.	12.8	127
6	Multiâ€MeV electron loss in the heart of the radiation belts. Geophysical Research Letters, 2017, 44, 1204-1209.	4.0	89
7	Combined convective and diffusive simulations: VERBâ€4D comparison with 17 March 2013 Van Allen Probes observations. Geophysical Research Letters, 2015, 42, 9600-9608.	4.0	67
8	Energetic, relativistic, and ultrarelativistic electrons: Comparison of longâ€term VERB code simulations with Van Allen Probes measurements. Journal of Geophysical Research: Space Physics, 2015, 120, 3574-3587.	2.4	67
9	EMIC wave parameterization in the longâ€term VERB code simulation. Journal of Geophysical Research: Space Physics, 2017, 122, 8488-8501.	2.4	55
10	Analytical Chorus Wave Model Derived from Van Allen Probe Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 1063-1084.	2.4	40
11	Observations and Fokkerâ€Planck Simulations of the Lâ€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.	2.4	37
12	An empirical model of the highâ€energy electron environment at Jupiter. Journal of Geophysical Research: Space Physics, 2016, 121, 9732-9743.	2.4	31
13	The dynamics of Van Allen belts revisited. Nature Physics, 2018, 14, 102-103.	16.7	31
14	Signatures of Ultrarelativistic Electron Loss in the Heart of the Outer Radiation Belt Measured by Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 10,102.	2.4	30
15	Dependence of radiation belt simulations to assumed radial diffusion rates tested for two empirical models of radial transport. Space Weather, 2017, 15, 150-162.	3.7	29
16	The Role of Hiss, Chorus, and EMIC Waves in the Modeling of the Dynamics of the Multiâ€MeV Radiation Belt Electrons. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028282.	2.4	28
17	The Effect of Plasma Boundaries on the Dynamic Evolution of Relativistic Radiation Belt Electrons. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027422.	2.4	24
18	Strong whistler mode waves observed in the vicinity of Jupiterâ€™s moons. Nature Communications, 2018, 9, 3131.	12.8	22

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19	Beating 1 Sievert: Optimal Radiation Shielding of Astronauts on a Mission to Mars. Space Weather, 2021, 19, e2021SW002749.	3.7	20
20	New hiss and chorus waves diffusion coefficient parameterizations from the Van Allen Probes and their effect on long-term relativistic electron radiation-belt VERB simulations. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 193, 105090.	1.6	19
21	Identifying Radiation Belt Electron Source and Loss Processes by Assimilating Spacecraft Data in a Threeâ€Dimensional Diffusion Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027514.	2.4	18
22	A Comparison of Radial Diffusion Coefficients in 1â€D and 3â€D Longâ€Term Radiation Belt Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028707.	2.4	18
23	Storm Time Depletions of Multiâ€MeV Radiation Belt Electrons Observed at Different Pitch Angles. Journal of Geophysical Research: Space Physics, 2019, 124, 8943-8953.	2.4	17
24	Numerical applications of the advectiveâ€diffusive codes for the inner magnetosphere. Space Weather, 2016, 14, 993-1010.	3.7	15
25	On the propagation of uncertainties in radiation belt simulations. Space Weather, 2016, 14, 982-992.	3.7	15
26	Simulation of highâ€energy radiation belt electron fluxes using NARMAXâ€VERB coupled codes. Journal of Geophysical Research: Space Physics, 2014, 119, 8073-8086.	2.4	13
27	A New Population of Ultraâ€Relativistic Electrons in the Outer Radiation Zone. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	13
28	Transport and Loss of Ring Current Electrons Inside Geosynchronous Orbit During the 17 March 2013 Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 915-933.	2.4	11
29	Bayesian Inference of Quasiâ€Linear Radial Diffusion Parameters using Van Allen Probes. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027618.	2.4	11
30	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. Geophysical Research Letters, 2021, 48, e2021GL095495.	4.0	11
31	Ion Dynamics and the Shock Profile of a Lowâ€Mach Number Shock. Journal of Geophysical Research: Space Physics, 2018, 123, 8913-8923.	2.4	10
32	Depletions of Multiâ€MeV Electrons and Their Association to Minima in Phase Space Density. Geophysical Research Letters, 2022, 49, .	4.0	10
33	Thunderstorm neutrons in near space: Analyses and numerical simulation. Journal of Geophysical Research, 2010, 115, .	3.3	9
34	Assessment of thunderstorm neutron radiation environment at altitudes of aviation flights. Journal of Geophysical Research: Space Physics, 2013, 118, 947-955.	2.4	9
35	Contamination in electron observations of the silicon detector on board Cluster/RAPID/IES instrument in Earth's radiation belts and ring current. Space Weather, 2016, 14, 449-462.	3.7	9
36	Preliminary Statistical Comparisons of Spinâ€Averaged Electron Data From Arase and Van Allen Probes Instruments. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028929.	2.4	8

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37	Scientific Objectives of Electron Losses and Fields INvestigation Onboard Lomonosov Satellite. Space Science Reviews, 2018, 214, 1.	8.1	7
38	Radial Transport Versus Local Acceleration: The Longâ€Standing Debate. Earth and Space Science, 2022, 9, .	2.6	7
39	Simulations of the inner magnetospheric energetic electrons using the IMPTAM-VERB coupled model. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 191, 105050.	1.6	6
40	Reconstruction of the Radiation Belts for Solar Cycles 17â€“24 (1933â€“2017). Space Weather, 2021, 19, e2020SW002524.	3.7	6
41	Experiment based on spacesuit â€œOrlanâ€Mâ€: Neutron fluxes from thunderstorms. Journal of Geophysical Research, 2010, 115, .	3.3	5
42	Neutrons from thunderstorms at low atmospheric altitudes and related doses at aircraft. Journal of Physics: Conference Series, 2013, 409, 012246.	0.4	5
43	Interactions between energetic electrons and realistic whistler mode waves in the Jovian magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 5355-5364.	2.4	5
44	Energetic Ion Reflections at Interplanetary Shocks: First Observations From ARTEMIS. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028174.	2.4	4
45	Analysis of thunderstorm neutron fluxes in the generation region and at orbital altitudes. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 587-589.	0.6	0