Alexander Y Drozdov

List of Publications by Year
in descending order

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45 papers	1,854 citations	430754 18 h-index	265120 42 g-index
45 all docs	45 docs citations	45 times ranked	1400 citing authors

#	Article	IF	Citations
1	Radial Transport Versus Local Acceleration: The Longâ€Standing Debate. Earth and Space Science, 2022, 9, .	1.1	7
2	Depletions of Multiâ€MeV Electrons and Their Association to Minima in Phase Space Density. Geophysical Research Letters, 2022, 49, .	1.5	10
3	A New Population of Ultraâ€Relativistic Electrons in the Outer Radiation Zone. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	13
4	Reconstruction of the Radiation Belts for Solar Cycles 17â€“24 (1933â€“2017). Space Weather, 2021, 19, e2020SW002524.	1.3	6
5	Preliminary Statistical Comparisons of Spinâ€Averaged Electron Data From Arase and Van Allen Probes Instruments. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028929.	0.8	8
6	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.	0.8	18
7	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. Geophysical Research Letters, 2021, 48, e2021GL095495.	1.5	11
8	Beating 1 Sievert: Optimal Radiation Shielding of Astronauts on a Mission to Mars. Space Weather, 2021, 19, e2021SW002749.	1.3	20
9	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.	0.8	18
10	Energetic Ion Reflections at Interplanetary Shocks: First Observations From ARTEMIS. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028174.	0.8	4
11	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.	0.8	28
12	Bayesian Inference of Quasiâ€Linear Radial Diffusion Parameters using Van Allen Probes. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027618.	0.8	11
13	The Effect of Plasma Boundaries on the Dynamic Evolution of Relativistic Radiation Belt Electrons. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027422.	0.8	24
14	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.	0.8	11
15	Simulations of the inner magnetospheric energetic electrons using the IMPTAM-VERB coupled model. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 191, 105050.	0.6	6
16	Storm Time Depletions of Multiâ€MeV Radiation Belt Electrons Observed at Different Pitch Angles. Journal of Geophysical Research: Space Physics, 2019, 124, 8943-8953.	0.8	17
17	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.	0.6	19
18	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	3.7	332

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19	Analytical Chorus Wave Model Derived from Van Allen Probe Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 1063-1084.	0.8	40
20	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.	0.8	37
21	The dynamics of Van Allen belts revisited. Nature Physics, 2018, 14, 102-103.	6.5	31
22	Scientific Objectives of Electron Losses and Fields INvestigation Onboard Lomonosov Satellite. Space Science Reviews, 2018, 214, 1.	3.7	7
23	Ion Dynamics and the Shock Profile of a Lowâ€Mach Number Shock. Journal of Geophysical Research: Space Physics, 2018, 123, 8913-8923.	0.8	10
24	Strong whistler mode waves observed in the vicinity of Jupiterâ€™s moons. Nature Communications, 2018, 9, 3131.	5.8	22
25	Multiâ€MeV electron loss in the heart of the radiation belts. Geophysical Research Letters, 2017, 44, 1204-1209.	1.5	89
26	Interactions between energetic electrons and realistic whistler mode waves in the Jovian magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 5355-5364.	0.8	5
27	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.	0.8	30
28	EMIC wave parameterization in the longâ€term VERB code simulation. Journal of Geophysical Research: Space Physics, 2017, 122, 8488-8501.	0.8	55
29	Dependence of radiation belt simulations to assumed radial diffusion rates tested for two empirical models of radial transport. Space Weather, 2017, 15, 150-162.	1.3	29
30	Numerical applications of the advectiveâ€diffusive codes for the inner magnetosphere. Space Weather, 2016, 14, 993-1010.	1.3	15
31	On the propagation of uncertainties in radiation belt simulations. Space Weather, 2016, 14, 982-992.	1.3	15
32	An empirical model of the highâ€energy electron environment at Jupiter. Journal of Geophysical Research: Space Physics, 2016, 121, 9732-9743.	0.8	31
33	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. Nature Communications, 2016, 7, 12883.	5.8	127
34	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.	1.3	9
35	Combined convective and diffusive simulations: VERBâ€4D comparison with 17 March 2013 Van Allen Probes observations. Geophysical Research Letters, 2015, 42, 9600-9608.	1.5	67
36	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.	0.8	67

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37	Effect of EMIC waves on relativistic and ultrarelativistic electron populations: Groundâ€based and Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1375-1381.	1.5	294
38	Simulation of highâ€energy radiation belt electron fluxes using NARMAXâ€VERB coupled codes. Journal of Geophysical Research: Space Physics, 2014, 119, 8073-8086.	0.8	13
39	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1351-1358.	1.5	127
40	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.	0.1	0
41	Unusual stable trapping of the ultrarelativistic electrons in the Van Allen radiation belts. Nature Physics, 2013, 9, 699-703.	6.5	143
42	Assessment of thunderstorm neutron radiation environment at altitudes of aviation flights. Journal of Geophysical Research: Space Physics, 2013, 118, 947-955.	0.8	9
43	Neutrons from thunderstorms at low atmospheric altitudes and related doses at aircraft. Journal of Physics: Conference Series, 2013, 409, 012246.	0.3	5
44	Thunderstorm neutrons in near space: Analyses and numerical simulation. Journal of Geophysical Research, 2010, 115, .	3.3	9
45	Experiment based on spacesuit â€œOrlanâ€Mâ€: Neutron fluxes from thunderstorms. Journal of Geophysical Research, 2010, 115, .	3.3	5