

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	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	3.7	332
2	Effect of EMIC waves on relativistic and ultrarelativistic electron populations: Ground-based and Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2014, 41, 1375-1381.	1.5	294
3	Unusual stable trapping of the ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature Physics</i> , 2013, 9, 699-703.	6.5	143
4	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2014, 41, 1351-1358.	1.5	127
5	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. <i>Nature Communications</i> , 2016, 7, 12883.	5.8	127
6	Multi-MeV electron loss in the heart of the radiation belts. <i>Geophysical Research Letters</i> , 2017, 44, 1204-1209.	1.5	89
7	Combined convective and diffusive simulations: VERB 4D comparison with 17 March 2013 Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2015, 42, 9600-9608.	1.5	67
8	Energetic, relativistic, and ultrarelativistic electrons: Comparison of long-term VERB code simulations with Van Allen Probes measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3574-3587.	0.8	67
9	EMIC wave parameterization in the long-term VERB code simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8488-8501.	0.8	55
10	Analytical Chorus Wave Model Derived from Van Allen Probe Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1063-1084.	0.8	40
11	Observations and Fokker-Planck Simulations of the L -Shell, Energy, and Pitch Angle Structure of Earth's Electron Radiation Belts During Quiet Times. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1125-1142.	0.8	37
12	An empirical model of the high-energy electron environment at Jupiter. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9732-9743.	0.8	31
13	The dynamics of Van Allen belts revisited. <i>Nature Physics</i> , 2018, 14, 102-103.	6.5	31
14	Signatures of Ultrarelativistic Electron Loss in the Heart of the Outer Radiation Belt Measured by Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,102.	0.8	30
15	Dependence of radiation belt simulations to assumed radial diffusion rates tested for two empirical models of radial transport. <i>Space Weather</i> , 2017, 15, 150-162.	1.3	29
16	The Role of Hiss, Chorus, and EMIC Waves in the Modeling of the Dynamics of the Multi-MeV Radiation Belt Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028282.	0.8	28
17	The Effect of Plasma Boundaries on the Dynamic Evolution of Relativistic Radiation Belt Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027422.	0.8	24
18	Strong whistler mode waves observed in the vicinity of Jupiter's moons. <i>Nature Communications</i> , 2018, 9, 3131.	5.8	22

#	ARTICLE	IF	CITATIONS
19	Beating 1 Sievert: Optimal Radiation Shielding of Astronauts on a Mission to Mars. <i>Space Weather</i> , 2021, 19, e2021SW002749.	1.3	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. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 193, 105090.	0.6	19
21	Identifying Radiation Belt Electron Source and Loss Processes by Assimilating Spacecraft Data in a Three-Dimensional Diffusion Model. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027514.	0.8	18
22	A Comparison of Radial Diffusion Coefficients in 1 \AA D and 3 \AA D Long-Term Radiation Belt Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028707.	0.8	18
23	Storm Time Depletions of Multi-MeV Radiation Belt Electrons Observed at Different Pitch Angles. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8943-8953.	0.8	17
24	Numerical applications of the advective-diffusive codes for the inner magnetosphere. <i>Space Weather</i> , 2016, 14, 993-1010.	1.3	15
25	On the propagation of uncertainties in radiation belt simulations. <i>Space Weather</i> , 2016, 14, 982-992.	1.3	15
26	Simulation of high-energy radiation belt electron fluxes using NARMAX-VERB coupled codes. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8073-8086.	0.8	13
27	A New Population of Ultra-Relativistic Electrons in the Outer Radiation Zone. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	13
28	Transport and Loss of Ring Current Electrons Inside Geosynchronous Orbit During the 17 March 2013 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 915-933.	0.8	11
29	Bayesian Inference of Quasi-Linear Radial Diffusion Parameters using Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027618.	0.8	11
30	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095495.	1.5	11
31	Ion Dynamics and the Shock Profile of a Low-Mach Number Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8913-8923.	0.8	10
32	Depletions of Multi-MeV Electrons and Their Association to Minima in Phase Space Density. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	10
33	Thunderstorm neutrons in near space: Analyses and numerical simulation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
34	Assessment of thunderstorm neutron radiation environment at altitudes of aviation flights. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 947-955.	0.8	9
35	Contamination in electron observations of the silicon detector on board Cluster/RAPID/IIES instrument in Earth's radiation belts and ring current. <i>Space Weather</i> , 2016, 14, 449-462.	1.3	9
36	Preliminary Statistical Comparisons of Spin-Averaged Electron Data From Arase and Van Allen Probes Instruments. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028929.	0.8	8

#	ARTICLE	IF	CITATIONS
37	Scientific Objectives of Electron Losses and Fields Investigation Onboard Lomonosov Satellite. Space Science Reviews, 2018, 214, 1.	3.7	7
38	Radial Transport Versus Local Acceleration: The Long-standing Debate. Earth and Space Science, 2022, 9, .	1.1	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.	0.6	6
40	Reconstruction of the Radiation Belts for Solar Cycles 17–24 (1933–2017). Space Weather, 2021, 19, e2020SW002524.	1.3	6
41	Experiment based on spacesuit –Orlan-M – 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.	0.3	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.	0.8	5
44	Energetic Ion Reflections at Interplanetary Shocks: First Observations From ARTEMIS. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028174.	0.8	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.	0.1	0