

# Nikita A Aseev

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

597  
citations

759233

12  
h-index

610901

24  
g-index

31  
all docs

31  
docs citations

31  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. <i>Nature Communications</i> , 2016, 7, 12883.	12.8	127
2	Multi-MeV electron loss in the heart of the radiation belts. <i>Geophysical Research Letters</i> , 2017, 44, 1204-1209.	4.0	89
3	EMIC wave parameterization in the long-term VERB code simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8488-8501.	2.4	55
4	Analytical Chorus Wave Model Derived from Van Allen Probe Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1063-1084.	2.4	40
5	Medium Energy Electron Flux in Earth's Outer Radiation Belt (MERLIN): A Machine Learning Model. <i>Space Weather</i> , 2020, 18, e2020SW002532.	3.7	31
6	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.	2.4	30
7	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.	3.7	29
8	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.	2.4	24
9	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.	2.4	18
10	A Comparison of Radial Diffusion Coefficients in 1-D and 3-D Long-Term Radiation Belt Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028707.	2.4	18
11	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.	2.4	17
12	Numerical applications of the advective-diffusive codes for the inner magnetosphere. <i>Space Weather</i> , 2016, 14, 993-1010.	3.7	15
13	A Combined Neural Network and Physics-Based Approach for Modeling Plasmasphere Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028077.	2.4	15
14	Electron Intensity Measurements by the Cluster/RAPID/IES Instrument in Earth's Radiation Belts and Ring Current. <i>Space Weather</i> , 2019, 17, 553-566.	3.7	13
15	Quantifying the Effects of EMIC Wave Scattering and Magnetopause Shadowing in the Outer Electron Radiation Belt by Means of Data Assimilation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028208.	2.4	13
16	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.	2.4	11
17	Preliminary Statistical Comparisons of Spin-Averaged Electron Data From Arase and Van Allen Probe Instruments. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028929.	2.4	8
18	Reanalysis of Ring Current Electron Phase Space Densities Using Van Allen Probe Observations, Convection Model, and Log-Normal Kalman Filter. <i>Space Weather</i> , 2019, 17, 619-638.	3.7	7

#	ARTICLE	IF	CITATIONS
19	Adiabatic Invariants Calculations for Cluster Mission: A Long-Term Product for Radiation Belts Studies. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027576.	2.4	7
20	Storm-Time Evolution of the Equatorial Electron Pitch Angle Distributions in Earth's Outer Radiation Belt. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	7
21	Simulations of the inner magnetospheric energetic electrons using the IMPTAM-VERB coupled model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 191, 105050.	1.6	6
22	Reconstructing the Dynamics of the Outer Electron Radiation Belt by Means of the Standard and Ensemble Kalman Filter With the VERB-3D Code. <i>Space Weather</i> , 2021, 19, e2020SW002672.	3.7	6
23	NARX Neural Network Derivations of the Outer Boundary Radiation Belt Electron Flux. <i>Space Weather</i> , 2022, 20, .	3.7	5
24	An artificial neural network model of electron fluxes in the Earth's central plasma sheet: a THEMIS survey. <i>Astrophysics and Space Science</i> , 2020, 365, 1.	1.4	3
25	An Empirical Model of the Equatorial Electron Pitch Angle Distributions in Earth's Outer Radiation Belt. <i>Space Weather</i> , 2022, 20, .	3.7	3