Elizaveta Antonova

List of Publications by Year in descending order

92 papers	1,124 citations	448610 19 h-index	591227 27 g-index
94 all docs	94 docs citations	94 times ranked	458 citing authors

#	Article	IF	Citations
1	Adiabatic and non-adiabatic evolution of relativistic electrons in the heart of the outer radiation belt during the 1 June 2013 geomagnetic storm. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 212, 105479.	0.6	3
2	Formation of the Outer Radiation Belt during Geomagnetic Storms and the Adiabatic Mechanism of the Rise and Fall of Relativistic Electron Fluxes. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 309-313.	0.1	1
3	Influence of MHD Turbulence on Ion Kappa Distributions in the Earth's Plasma Sheet as a Function of Plasma Î² Parameter. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	1
4	Ion Pressure in the Precipitation Region of Dayside Low Latitude Boundary Layer. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 242-245.	0.1	0
5	The Impact of Turbulence on Physics of the Geomagnetic Tail. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	10
6	Ion Kappa Distribution Parameters in the Magnetosphere of the Earth at Geocentric Distances Smaller Than 20 R_E During Quiet Geomagnetic Conditions. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029409.	0.8	4
7	Variation of Plasma Pressure at the Auroral Oval Latitudes before, during, and after the Isolated Geomagnetic Substorm on December 22, 2008. Geomagnetism and Aeronomy, 2020, 60, 452-460.	0.2	3
8	Ion Pressure in Different Regions of the Dayside Auroral Precipitation. Geomagnetism and Aeronomy, 2020, 60, 727-736.	0.2	2
9	Dependencies of Kappa Parameter on the Core Energy of Kappa Distributions and Plasma Parameter in the Case of the Magnetosphere of the Earth. Astrophysical Journal, 2020, 891, 35.	1.6	13
10	Multisatellite Analysis of Plasma Pressure in the Inner Magnetosphere During the 1 June 2013 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 1187-1202.	0.8	8
11	Position of the Energetic Electron Trapping Boundary Relative to Auroral Oval Boundaries during the Magnetic Storm on December 19â€“22, 2015, Based on Data from the Meteor-M2 Satellite. Geomagnetism and Aeronomy, 2019, 59, 136-146.	0.2	2
12	Spectra and Pitch-Angular Distributions of Relativistic Electrons Near the Outer Radiation Belt Maximum During the Magnetic Storm of December 19â€“22, 2015. Geomagnetism and Aeronomy, 2019, 59, 651-659.	0.2	4
13	Ion Pressure at the Auroral Precipitation Boundaries and Its Relationship with the Solar Wind Dynamic Pressure. Geomagnetism and Aeronomy, 2019, 59, 543-553.	0.2	5
14	Structure of magnetospheric current systems and mapping of high latitude magnetospheric regions to the ionosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 177, 103-114.	0.6	26
15	Magnetic holes observed in the ring current region near the equatorial plane. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 177, 141-147.	0.6	12
16	Plasma Pressure Profiles in the Dark Sector of the Earthâ€™s Magnetosphere during the Magnetic Storm of May 29, 2010. Geomagnetism and Aeronomy, 2018, 58, 710-717.	0.2	5
17	Processes in auroral oval and outer electron radiation belt. Earth, Planets and Space, 2018, 70, 127.	0.9	13
18	Plasma Pressure under Magnetopause on the Dusk Flank in the Equatorial Plane for Large Negative Ð¥GSM. Geomagnetism and Aeronomy, 2018, 58, 701-709.	0.2	0

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19	Relative positions of the polar boundary of the outer electron radiation belt and the equatorial boundary of the auroral oval. Annales Geophysicae, 2018, 36, 1131-1140.	0.6	4
20	Ion and Electron Î¹ Distribution Functions Along the Plasma Sheet. Geophysical Research Letters, 2018, 45, 6362-6370.	1.5	29
21	Influence of Solar Wind Plasma Parameters on the Intensity of Isolated Magnetospheric Substorms. Geomagnetism and Aeronomy, 2018, 58, 295-306.	0.2	10
22	Perturbation of the magnetic field in the Earthâ€™s magnetosphere due to plateau creation in the radial distribution of plasma pressure. Geomagnetism and Aeronomy, 2017, 57, 257-265.	0.2	2
23	Ion leakage at dayside magnetopause in case of high and low magnetic shears. Journal of Geophysical Research: Space Physics, 2017, 122, 8078-8095.	0.8	7
24	Turbulent transport of the Earth magnitisphere: Review of the results of observations and modeling. Geomagnetism and Aeronomy, 2017, 57, 655-663.	0.2	8
25	Position of projections of the nightside auroral oval equatorward and poleward edges in the magnetosphere equatorial plane. Geomagnetism and Aeronomy, 2016, 56, 407-414.	0.2	13
26	Variations in plasma parameters and magnetic field upon magnetopause crossing at the main phase maximum of the magnetic storm of November 14, 2012. Geomagnetism and Aeronomy, 2016, 56, 673-681.	0.2	2
27	The dependence of the LLBL thickness on IMF <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mi>z</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si13.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mi>y</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> components. Advances in Space Research, 2016, 58, 268-275.	1.2	2
28	Role of turbulent transport in the evolution of the Î¹ distribution functions in the plasma sheet. Journal of Geophysical Research: Space Physics, 2015, 120, 3702-3714.	0.8	28
29	The problem of the acceleration of electrons of the outer radiation belt and magnetospheric substorms. Earth, Planets and Space, 2015, 67, .	0.9	19
30	Problems with mapping the auroral oval and magnetospheric substorms. Earth, Planets and Space, 2015, 67, 166.	0.9	23
31	Features of the planetary distribution of ion precipitation at different levels of magnetic activity. Geomagnetism and Aeronomy, 2015, 55, 585-595.	0.2	6
32	Thickness of the low-latitude boundary layer at different levels of magnetic field fluctuations in the magnetosheath. Geomagnetism and Aeronomy, 2015, 55, 573-581.	0.2	1
33	Evolution of spectral index of energetic protons in the magnetopause crossing at the subsolar point. Geomagnetism and Aeronomy, 2015, 55, 709-714.	0.2	3
34	Comparison of the magnetic field before the subsolar magnetopause with the magnetic field in the solar wind before the bow shock. Advances in Space Research, 2014, 54, 604-616.	1.2	15
35	Estimation of the current density and analysis of the geometry of the current system surrounding the Earth. Cosmic Research, 2014, 52, 52-60.	0.2	9
36	Dipole magnetic-field disturbance and generation of current systems by asymmetric plasma pressure. Geomagnetism and Aeronomy, 2014, 54, 164-172.	0.2	4

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37	Comparison of the plasma pressure distributions over the equatorial plane and at low altitudes under magnetically quiet conditions. Geomagnetism and Aeronomy, 2014, 54, 278-281.	0.2	21
38	Plasma pressure distribution in the surrounding the Earth plasma ring and its role in the magnetospheric dynamics. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 115-116, 32-40.	0.6	39
39	Determining the thickness of the low-latitude boundary layer in the Earthâ€™s magnetosphere. Geomagnetism and Aeronomy, 2013, 53, 699-710.	0.2	1
40	Characteristics of plasma ring, surrounding the Earth at geocentric distances âˆ¼7â€“10RE, and magnetospheric current systems. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 99, 85-91.	0.6	37
41	Wave structure of magnetic substorms at high latitudes. Geomagnetism and Aeronomy, 2012, 52, 746-754.	0.2	24
42	Enhanced energetic electron fluxes at the region of the auroral oval during quiet geomagnetic conditions November 2009. Advances in Space Research, 2012, 50, 623-631.	1.2	7
43	Dependence of magnetic field parameters at the subsolar point of the magnetosphere on the interplanetary magnetic field according to the data of the THEMIS experiment. Geomagnetism and Aeronomy, 2012, 52, 730-739.	0.2	12
44	Magnetospheric substorms and discrete arcs of the polar aurora. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2012, 67, 500-507.	0.1	7
45	Dependence of volumes of magnetic flux tubes on plasma pressure and disturbance in the magnetic field in the axially symmetric case. Geomagnetism and Aeronomy, 2012, 52, 49-59.	0.2	8
46	Spatial distribution of the eddy diffusion coefficients in the plasma sheet during quiet time and substorms from THEMIS satellite data. Journal of Geophysical Research, 2011, 116, .	3.3	34
47	Pressure balance on the magnetopause near the subsolar point according to observational data of the THEMIS project satellites. Cosmic Research, 2011, 49, 3-20.	0.2	15
48	Plasma pressure distribution in the equatorial plane of the Earthâ€™s magnetosphere at geocentric distances of 6â€“10R E according to the international THEMIS mission data. Geomagnetism and Aeronomy, 2011, 51, 450-455.	0.2	29
49	Modeling of the turbulent plasma sheet during quiet geomagnetic conditions. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1636-1642.	0.6	9
50	Local particle traps in the high latitude magnetosphere and the acceleration of relativistic electrons. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1465-1471.	0.6	14
51	Estimation of the eddy-diffusion coefficients in the plasma sheet using THEMIS satellite data. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1472-1477.	0.6	18
52	Enhancements of fluxes of precipitating energetic electrons on the boundary of the outer radiation belt of the earth and position of the auroral oval boundaries. Cosmic Research, 2010, 48, 165-173.	0.2	5
53	Nonlinear disturbance of the dipole field by an axisymmetric plasma distribution. Geomagnetism and Aeronomy, 2010, 50, 739-748.	0.2	8
54	10.1007/s11478-008-1002-y. , 2010, 48, 7.		0

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55	High latitude magnetospheric topology and magnetospheric substorm. Annales Geophysicae, 2009, 27, 4069-4073.	0.6	22
56	Topology of the high latitude magnetosphere during large magnetic storms and the main mechanisms of relativistic electron acceleration. Advances in Space Research, 2009, 43, 628-633.	1.2	25
57	Precipitation of energetic electrons and Pi3 geomagnetic pulsations at polar latitudes. Geomagnetism and Aeronomy, 2009, 49, 741-749.	0.2	2
58	Topology of currents in the high-latitude magnetosphere and magnetospheric response to variations in solar wind parameters. Geomagnetism and Aeronomy, 2009, 49, 1172-1175.	0.2	0
59	Spatial variation of eddy-diffusion coefficients in the turbulent plasma sheet during substorms. Annales Geophysicae, 2009, 27, 1407-1411.	0.6	28
60	Radial distribution of the inner magnetosphere plasma pressure using low-altitude satellite data during geomagnetic storm: The March 1â€“8, 1982 event. Advances in Space Research, 2008, 41, 1658-1665.	1.2	14
61	Kappa distribution functions and the main properties of auroral particle acceleration. Advances in Space Research, 2008, 42, 987-991.	1.2	19
62	Formation and characteristics of low latitude boundary layer. Advances in Space Research, 2008, 41, 1545-1550.	1.2	4
63	Turbulent fluctuations of plasma and magnetic field parameters in the magnetosheath and the low-latitude boundary layer formation: Multisatellite observations on March 2, 1996. Cosmic Research, 2008, 46, 373-382.	0.2	16
64	Fine structure of auroras during auroral breakup according to the ground-based and satellite observations. Geomagnetism and Aeronomy, 2008, 48, 7-19.	0.2	8
65	Particle acceleration by double layers during kappa distributions. Geomagnetism and Aeronomy, 2007, 47, 423-428.	0.2	4
66	Medium-scale splitting of outflowing field-aligned currents and kappa distribution of magnetospheric ions. Geomagnetism and Aeronomy, 2006, 46, 317-321.	0.2	5
67	Scales of the field-aligned current structures in the high-latitude magnetosphere according to the Intercosmos-Bulgaria-1300 satellite data. Geomagnetism and Aeronomy, 2006, 46, 467-472.	0.2	2
68	Plasma sheet and magnetosheath plasma mixing in LLBL: Case study. Advances in Space Research, 2006, 38, 1744-1749.	1.2	5
69	Quasiturbulent transport and LLBL properties. Advances in Space Research, 2006, 37, 532-536.	1.2	7
70	Study of plasma pressure distribution in the inner magnetosphere using low-altitude satellites and its importance for the large-scale magnetospheric dynamics. Advances in Space Research, 2006, 38, 1631-1636.	1.2	18
71	Stability of the magnetospheric plasma pressure distribution and magnetospheric storms. Advances in Space Research, 2006, 38, 1626-1630.	1.2	15
72	Field-aligned current mapping and the problem of the generation of magnetospheric convection. Advances in Space Research, 2006, 38, 1637-1641.	1.2	21

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73	The structure of the magnetospheric boundary layers and the magnetospheric turbulence. Planetary and Space Science, 2005, 53, 161-168.	0.9	16
74	The features of the ion plasma pressure distributions in the near Earth plasma sheet. Planetary and Space Science, 2005, 53, 209-215.	0.9	8
75	Magnetospheric substorms and the sources of inner magnetosphere particle acceleration. Geophysical Monograph Series, 2005, , 105-111.	0.1	5
76	Radial plasma pressure gradients in the high latitude magnetosphere as sources of instabilities leading to the substorm onset. Advances in Space Research, 2004, 33, 761-768.	1.2	8
77	Magnetostatic equilibrium and current systems in the Earthâ€™s magnetosphere. Advances in Space Research, 2004, 33, 752-760.	1.2	31
78	The influence of the energetic tails of ion distribution function on the main parameter of the theory of field-aligned current splitting and intercosmos-Bulgaria-1300 observations. Advances in Space Research, 2003, 31, 1229-1234.	1.2	36
79	Intermittency of magnetospheric dynamics through non-Gaussian distribution function of PC-index fluctuations. Geophysical Research Letters, 2003, 30, .	1.5	21
80	Asymmetry of auroral electron precipitations and its relationship to the substorm expansion phase onset. Journal of Geophysical Research, 2002, 107, SMP 25-1.	3.3	32
81	The ion differential spectra in outer boundary of the ring current: November 17, 1995 case study. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 573-583.	0.6	30
82	Reconnection in the conditions of developed turbulence. Advances in Space Research, 2002, 29, 1063-1068.	1.2	6
83	Plasma sheet heating during substorm and the values of the plasma sheet diffusion coefficient obtained on the base of interball/tail probe observations. Advances in Space Research, 2002, 30, 1821-1824.	1.2	3
84	INTERBALL/Tail observations of high latitude pressure distribution. Advances in Space Research, 2002, 30, 2289-2293.	1.2	8
85	Inconsistency of magnetic field and plasma velocity variations in the distant plasma sheet: Violation of the â€œfrozen-inâ€•criterion?. Advances in Space Research, 2002, 30, 2683-2687.	1.2	18
86	The Structure of Ion Spectra in Outer Regions of the Ring Current: The November 13, 1995 Event. Cosmic Research, 2002, 40, 15-24.	0.2	5
87	Title is missing!. Cosmic Research, 2002, 40, 521-528.	0.2	3
88	The model of turbulent plasma sheet during IMF Bz > 0. Advances in Space Research, 2001, 28, 1747-1752.	1.2	12
89	Title is missing!. Cosmic Research, 2000, 38, 557-561.	0.2	14
90	Quasi-three dimensional modelling of the plasma sheet including turbulence on medium scales. Advances in Space Research, 1999, 24, 121-124.	1.2	5

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91	Azimuthal hot plasma pressure gradients and dawn-dusk electric field formation. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 1343-1354.	0.6	45
92	Current sheet with medium scale developed turbulence and the formation of the plasma sheet of Earth's magnetosphere and solar prominences. Advances in Space Research, 1997, 19, 1919-1922.	1.2	10