Elena Belenkaya

List of Publications by Year
in descending order

63	1,036	430874	434195
papers	citations	18 h-index	31 g-index

69	69	69	554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Can a Dynamo Mechanism Act at the Magnetopauses of Magnetic Rapidly Rotating Exoplanets?. Fluids, 2022, 7, 60.	1.7	0
2	Modeling of Magnetospheres of Terrestrial Exoplanets in the Habitable Zone around G-Type Stars. Universe, 2022, 8, 231.	2.5	1
3	Sliding Contacts in Planetary Magnetospheres. Symmetry, 2021, 13, 283.	2.2	1
4	Transient particle acceleration by a dawnâ€“dusk electric field in a current sheet. Physics of Plasmas, 2021, 28, 042902.	1.9	0
5	A Model of Jupiterâ€™s Current Disk Optimized for Juno and Galileo Magnetic Field Data. Cosmic Research, 2021, 59, 175-182.	0.6	1
6	What Density of Magnetosheath Sodium Ions Can Provide the Observed Decrease in the Magnetic Field of the â€œDouble Magnetopauseâ€•during the First MESSENGER Flyby?. Symmetry, 2021, 13, 1168.	2.2	3
7	Excess of Sodium Ions Density Required to Create a Wide Current at the Hermean Magnetopause. Universe, 2021, 7, 355.	2.5	0
8	Axially Asymmetric Steady State Model of Jupiter's Magnetosphereâ€“Ionosphere Coupling. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029608.	2.4	4
9	Dynamo beyond the Heliopause: Verification from the Available Data of Voyager 2. Astronomy Reports, 2021, 65, 1145-1149.	0.9	0
10	Callisto in the Magnetosphere of Jupiter. Solar System Research, 2020, 54, 85-95.	0.7	5
11	Possibility of the Existence of Trapped Radiation near Mercury. Astronomy Letters, 2020, 46, 762-773.	1.0	0
12	Model of Jupiter's Current Sheet With a Piecewise Current Density. Journal of Geophysical Research: Space Physics, 2019, 124, 1843-1854.	2.4	16
13	Magnetodisc modelling in Jupiter's magnetosphere using Juno magnetic field data and the paraboloid magnetic field model. Annales Geophysicae, 2019, 37, 101-109.	1.6	1
14	Calculation of the Initial Magnetic Field for Mercuryâ€™s Magnetosphere Hybrid Model. Cosmic Research, 2018, 56, 108-114.	0.6	2
15	Fieldâ€Aligned Currents in Saturn's Nightside Magnetosphere: Subcorotation and Planetary Period Oscillation Components During Northern Spring. Journal of Geophysical Research: Space Physics, 2018, 123, 3602-3636.	2.4	24
16	Self-consistent description of the tangential-discontinuity-type current sheet, using the particle trajectory method and angular variables. Physics of Plasmas, 2018, 25, 092110.	1.9	1
17	The influence of kinetic effect on the MHD scalings of a thin current sheet. Journal of Geophysical Research: Space Physics, 2017, 122, 493-500.	2.4	2
18	Simulation of Mercury's magnetosheath with a combined hybridâ€paraboloid model. Journal of Geophysical Research: Space Physics, 2017, 122, 8310-8326.	2.4	3

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19	Open and partially closed models of the solar wind interaction with outer planet magnetospheres: the case of Saturn. Annales Geophysicae, 2017, 35, 1293-1308.	1.6	1
20	Optimization of Saturn paraboloid magnetospheric field model parameters using Cassini equatorial magnetic field data. Annales Geophysicae, 2016, 34, 641-656.	1.6	4
21	Fieldâ€aligned currents in Saturn's magnetosphere: Local time dependence of southern summer currents in the dawn sector between midnight and noon. Journal of Geophysical Research: Space Physics, 2016, 121, 7785-7804.	2.4	21
22	The energyâ€based scaling of a thin current sheet: Case study. Geophysical Research Letters, 2015, 42, 9609-9616.	4.0	3
23	Fieldâ€aligned currents in Saturn's northern nightside magnetosphere: Evidence for interhemispheric current flow associated with planetary period oscillations. Journal of Geophysical Research: Space Physics, 2015, 120, 7552-7584.	2.4	70
24	Investigation of scaling properties of a thin current sheet by means of particle trajectories study. Journal of Geophysical Research: Space Physics, 2015, 120, 1633-1645.	2.4	6
25	Dynamo in the Outer Heliosheath: Necessary Conditions. Solar Physics, 2015, 290, 2077-2092.	2.5	4
26	Magnetospheric magnetic field modelling for the 2011 and 2012 HST Saturn aurora campaigns â€“ implications for auroral source regions. Annales Geophysicae, 2014, 32, 689-704.	1.6	18
27	Polar cap response to the solar wind density jump under constant southward IMF. Geomagnetism and Aeronomy, 2014, 54, 702-711.	0.8	1
28	Low-latitude variations in the geomagnetic field caused by solar wind disturbances. Geomagnetism and Aeronomy, 2014, 54, 445-448.	0.8	0
29	The response of the high-latitude ionosphere to the solar-wind pressure jump with a southward IMF on January 10, 1997. Geomagnetism and Aeronomy, 2014, 54, 203-206.	0.8	3
30	Response of currents in Earthâ€™s and Saturnâ€™s dayside magnetopause to a sudden change in the solar wind density. Geomagnetism and Aeronomy, 2014, 54, 287-291.	0.8	1
31	Fieldâ€aligned currents in Saturn's southern nightside magnetosphere: Subcorotation and planetary period oscillation components. Journal of Geophysical Research: Space Physics, 2014, 119, 9847-9899.	2.4	87
32	Saturn's dayside ultraviolet auroras: Evidence for morphological dependence on the direction of the upstream interplanetary magnetic field. Journal of Geophysical Research: Space Physics, 2014, 119, 1994-2008.	2.4	25
33	Magnetic interconnection of Saturn's polar regions: comparison of modelling results with Hubble Space Telescope UV auroral images. Annales Geophysicae, 2013, 31, 1447-1458.	1.6	3
34	Stellar CME activity and its possible influence on exoplanets' environments: Importance of magnetospheric protection. Proceedings of the International Astronomical Union, 2013, 8, 335-346.	0.0	5
35	Accretion and Current Discs Controlled by Strong Magnetic Field. International Journal of Astronomy and Astrophysics, 2012, 02, 81-96.	0.5	5
36	Magnetospheric mapping of the dayside UV auroral oval at Saturn using simultaneous HST images, Cassini IMF data, and a global magnetic field model. Annales Geophysicae, 2011, 29, 1233-1246.	1.6	20

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37	Mercuryâ€™s magnetospheric magnetic field after the first two MESSENGER flybys. Icarus, 2010, 209, 23-39.	2.5	110
38	IMF dependence of Saturn's auroras: modelling study of HST and Cassini data from 12â€“15 February 2008. Annales Geophysicae, 2010, 28, 1559-1570.	1.6	12
39	Magnetospheres of planets with an intrinsic magnetic field. Physics-Uspekhi, 2009, 52, 765-788.	2.2	17
40	Ring current asymmetry during a magnetic storm. Geomagnetism and Aeronomy, 2008, 48, 747-758.	0.8	9
41	Paraboloid model of Mercury's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	59
42	Dependence of the open-closed field line boundary in Saturn's ionosphere on both the IMF and solar wind dynamic pressure: comparison with the UV auroral oval observed by the HST. Annales Geophysicae, 2008, 26, 159-166.	1.6	23
43	Magnetic field of the transition current system: dawn-dusk asymmetry. Annales Geophysicae, 2007, 25, 1899-1911.	1.6	4
44	Magnetopause mapping to the ionosphere for northward IMF. Annales Geophysicae, 2007, 25, 2615-2625.	1.6	5
45	Selection of parameters for the Saturnâ€™s magnetospheric model based on the pioneer 11 data. Geomagnetism and Aeronomy, 2007, 47, 29-36.	0.8	1
46	IMF dependence of the open-closed field line boundary in Saturn's ionosphere, and its relation to the UV auroral oval observed by the Hubble Space Telescope. Annales Geophysicae, 2007, 25, 1215-1226.	1.6	15
47	A global magnetic model of Saturn's magnetosphere and a comparison with Cassini SOI data. Geophysical Research Letters, 2006, 33, .	4.0	44
48	Magnetic field influence on aurorae and the Jovian plasma disk radial structure. Annales Geophysicae, 2006, 24, 973-988.	1.6	4
49	Saturn's aurora in the January 2004 events. Annales Geophysicae, 2006, 24, 1649-1663.	1.6	18
50	Definition of Saturn's magnetospheric model parameters for the Pioneer 11 flyby. Annales Geophysicae, 2006, 24, 1145-1156.	1.6	19
51	Transition current systems in the Earthâ€™s and Saturnâ€™s magnetospheres. Geomagnetism and Aeronomy, 2006, 46, 555-562.	0.8	3
52	Transpolar aurora: time evolution, associated convection patterns, and a possible cause. Annales Geophysicae, 2005, 23, 1917-1930.	1.6	12
53	Modeling of the Jovian Magnetosphere. Annales Geophysicae, 2005, 23, 809-826.	1.6	72
54	A simple axisymmetric model of magnetosphere-ionosphere coupling currents in Jupiter's polar ionosphere. Journal of Geophysical Research, 2005, 110, .	3.3	58

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55	Magnetic Storms in October 2003. Cosmic Research, 2004, 42, 489-535.	0.6	53
56	Field-aligned current distribution in the transition current system. Journal of Geophysical Research, 2004, 109, .	3.3	11
57	Modelling of the electromagnetic field in the interplanetary space and in the Earth's magnetosphere. Space Science Reviews, 2003, 107, 7-26.	8.1	37
58	Dynamic model of the magnetosphere: Case study for January 9-12, 1997. Journal of Geophysical Research, 2001, 106, 25683-25693.	3.3	55
59	Currents at the subsolar low shear magnetopause. Journal of Geophysical Research, 2001, 106, 25437-25450.	3.3	7
60	Title is missing!. Astrophysics and Space Science, 2001, 277, 289-292.	1.4	2
61	Reconnection modes for near-radial interplanetary magnetic field. Journal of Geophysical Research, 1998, 103, 26487-26494.	3.3	16
62	Generation of the magnetic field at the magnetopauses of the rapidly rotating planets. Journal of Geophysical Research, 1996, 101, 41-47.	3.3	7
63	Electric fields and fieldâ€aligned current generation in the magnetosphere. Journal of Geophysical Research, 1993, 98, 4041-4051.	3.3	22