Lev M Zelenyi

List of Publications by Citations

Source: https://exaly.com/author-pdf/3378306/lev-m-zelenyi-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 183
 5,138
 40
 64

 papers
 citations
 h-index
 g-index

 187
 5,576
 2.6
 5.52

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
183	Regular and chaotic charged particle motion in magnetotaillike field reversals: 1. Basic theory of trapped motion. <i>Journal of Geophysical Research</i> , 1989 , 94, 11821		525
182	Shaping of the magnetotail from the mantle: Global and local structuring. <i>Journal of Geophysical Research</i> , 1993 , 98, 5651-5676		160
181	Fractal topology and strange kinetics: from percolation theory to problems in cosmic electrodynamics. <i>Physics-Uspekhi</i> , 2004 , 47, 749-788	2.8	157
180	Particle Acceleration in the Magnetotail and Aurora. Space Science Reviews, 2012, 173, 49-102	7.5	143
179	Thin current sheets in collisionless plasma: Equilibrium structure, plasma instabilities, and particle acceleration. <i>Plasma Physics Reports</i> , 2011 , 37, 118-160	1.2	119
178	Chaotization of the electron motion as the cause of an internal magnetotail instability and substorm onset. <i>Journal of Geophysical Research</i> , 1987 , 92, 13456		115
177	Thin current sheet embedded within a thicker plasma sheet: Self-consistent kinetic theory. <i>Journal of Geophysical Research</i> , 2000 , 105, 13029-13043		110
176	Circulation of Heavy Ions and Their Dynamical Effects in the Magnetosphere: Recent Observations and Models. <i>Space Science Reviews</i> , 2014 , 184, 173-235	7.5	109
175	Transient and localized processes in the magnetotail: a review. <i>Annales Geophysicae</i> , 2008 , 26, 955-100)62	100
174	Velocity-dispersed ion beams in the nightside auroral zone: AUREOL 3 observations. <i>Journal of Geophysical Research</i> , 1990 , 95, 12119		100
173	Consequences of magnetotail ion dynamics. <i>Journal of Geophysical Research</i> , 1994 , 99, 14891		99
172	Thin and superthin ion current sheets. Quasi-adiabatic and nonadiabatic models. <i>Nonlinear Processes in Geophysics</i> , 2000 , 7, 127-139	2.9	93
171	Nonlinear equilibrium structure of thin currents sheets: influence of electron pressure anisotropy. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 579-587	2.9	78
170	Embedded current sheets in the Earth magnetotail. Journal of Geophysical Research, 2011, 116,		71
169	Marginal stability of thin current sheets in the Earth's magnetotail. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 325-333	2	71
168	Generation of the energetic proton and electron bursts in planetary magnetotails. <i>Journal of Geophysical Research</i> , 1990 , 95, 3883		71
167	Low frequency eigenmodes of thin anisotropic current sheets and Cluster observations. <i>Annales Geophysicae</i> , 2009 , 27, 861-868	2	64

(2006-1998)

166	Effect of magnetic turbulence on the ion dynamics in the distant magnetotail. <i>Journal of Geophysical Research</i> , 1998 , 103, 14897-14910		64
165	Dusty plasma at the surface of the moon. Solar System Research, 2013, 47, 419-429	0.8	60
164	Cluster statistics of thin current sheets in the Earth magnetotail: Specifics of the dawn flank, proton temperature profiles and electrostatic effects. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/	/a	59
163	Thin embedded current sheets: Cluster observations of ion kinetic structure and analytical models. <i>Annales Geophysicae</i> , 2009 , 27, 4075-4087	2	58
162	Quasiadiabatic dynamics of charged particles in a space plasma. <i>Physics-Uspekhi</i> , 2013 , 56, 347-394	2.8	57
161	The quasi-adiabatic ion distribution in the central plasma sheet and its boundary layer. <i>Journal of Geophysical Research</i> , 1991 , 96, 1601-1609		57
160	Current Sheets in the Earth Magnetotail: Plasma and Magnetic Field Structure with Cluster Project Observations. <i>Space Science Reviews</i> , 2015 , 188, 311-337	7.5	56
159	Proton velocity distributions in the magnetotail: Theory and observations. <i>Journal of Geophysical Research</i> , 1996 , 101, 2587-2598		55
158	"Strange" Fermi processes and power-law nonthermal tails from a self-consistent fractional kinetic equation. <i>Physical Review E</i> , 2001 , 64, 052101	2.4	53
157	Proton velocity distribution in thin current sheets: Cluster observations and theory of transient trajectories. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		52
156	Fractal structures and power law spectra in the distant Earth's magnetotail. <i>Journal of Geophysical Research</i> , 1996 , 101, 19903-19910		52
155	Large and small scale structures in the plasma sheet: A signature of chaotic motion and resonance effects. <i>Geophysical Research Letters</i> , 1991 , 18, 1603-1606	4.9	52
154	Investigation of intermittency and generalized self-similarity of turbulent boundary layers in laboratory and magnetospheric plasmas: towards a quantitative definition of plasma transport features. <i>Physics-Uspekhi</i> , 2011 , 54, 875-918	2.8	51
153	Kinetic Structure of Current Sheets in the Earth Magnetotail. <i>Space Science Reviews</i> , 2013 , 178, 419-440	7.5	50
152	Magnetic reconnection in collisionless field reversals the universality of the ion tearing mode. Geophysical Research Letters, 1991 , 18, 1825-1828	4.9	49
151	Hermean Magnetosphere-Solar Wind Interaction. Space Science Reviews, 2007, 132, 529-550	7.5	47
150	Geographylof ion acceleration in the magnetotail: X-line versus current sheet effects. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		44
149	Matreshkalmodel of multilayered current sheet. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	44

148	Substorm-associated pressure variations in the magnetotail plasma sheet and lobe. <i>Journal of Geophysical Research</i> , 1999 , 104, 4501-4513		44
147	Universal properties of the nonadiabatic acceleration of ions in current sheets. <i>JETP Letters</i> , 2007 , 85, 187-193	1.2	43
146	Dispersed ion structures at the poleward edge of the auroral oval: Low-altitude observations and numerical modeling. <i>Journal of Geophysical Research</i> , 1993 , 98, 19181-19204		43
145	Metastability of current sheets. <i>Physics-Uspekhi</i> , 2010 , 53, 933-941	2.8	42
144	Intense current sheets in the magnetotail: Peculiarities of electron physics. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2789-2799	2.6	41
143	Aginglof the magnetotail thin current sheets. <i>Geophysical Research Letters</i> , 2002 , 29, 49-1	4.9	39
142	On the distributions of photoelectrons over the illuminated part of the moon. <i>JETP Letters</i> , 2014 , 99, 115-120	1.2	37
141	Comparison of multi-point measurements of current sheet structure and analytical models. <i>Annales Geophysicae</i> , 2008 , 26, 2749-2758	2	37
140	Spatial-Temporal characteristics of ion beamlets in the plasma sheet boundary layer of magnetotail. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		36
139	Earthward electric field in the magnetotail: Cluster observations and theoretical estimates. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	34
138	Ion sources and acceleration mechanisms inferred from local distribution functions. <i>Geophysical Research Letters</i> , 1997 , 24, 955-958	4.9	34
137	Dusty plasma sheath-like structure in the region of lunar terminator. <i>Physics of Plasmas</i> , 2015 , 22, 1237	01 .1	33
136	LAPLACE: A mission to Europa and the Jupiter System for ESAE Cosmic Vision Programme. <i>Experimental Astronomy</i> , 2009 , 23, 849-892	1.3	33
135	Splitting of thin current sheets in the Earth magnetosphere. <i>JETP Letters</i> , 2003 , 78, 296-299	1.2	32
134	Instabilities of collisionless current sheets: Theory and simulations. <i>Physics of Plasmas</i> , 2002 , 9, 1104-11	12 1	32
133	The mosaic structure of plasma bulk flows in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 1995 , 100, 19191		32
132	Non-adiabatic Ion Acceleration in the Earth Magnetotail and Its Various Manifestations in the Plasma Sheet Boundary Layer. <i>Space Science Reviews</i> , 2011 , 164, 133-181	7.5	31
131	Adiabatic electron heating in the magnetotail current sheet: Cluster observations and analytical models. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		31

(2006-1999)

130	Localized reconnection and substorm onset on Dec. 22, 1996. <i>Geophysical Research Letters</i> , 1999 , 26, 3545-3548	4.9	31	
129	Plasma sheet ion injections into the auroral bulge: Correlative study of spacecraft and ground observations. <i>Journal of Geophysical Research</i> , 2000 , 105, 18465-18481		30	
128	Origin of low proton-to-electron temperature ratio in the Earth's plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 9985-10,004	2.6	29	•
127	Precipitation of fast ion beams from the plasma sheet boundary layer. <i>Geophysical Research Letters</i> , 1992 , 19, 617-620	4.9	29	
126	Earth's distant magnetotail current sheet near and beyond lunar orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8663-8680	2.6	28	
125	Impacts of fast meteoroids and the separation of dust particles from the surface of the Moon. <i>JETP Letters</i> , 2016 , 103, 563-567	1.2	27	
124	The Effect of Solar Wind Variations on the Escape of Oxygen Ions From Mars Through Different Channels: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,285-11,30	2.6	26	
123	Acceleration and transport of ions in turbulent current sheets: formation of non-maxwelian energy distribution. <i>Nonlinear Processes in Geophysics</i> , 2009 , 16, 631-639	2.9	26	
122	Numerical simulations of plasma equilibrium in a one-dimensional current sheet with a nonzero normal magnetic field component. <i>Plasma Physics Reports</i> , 2007 , 33, 942-955	1.2	26	
121	Effects of solar irradiance on the upper ionosphere and oxygen ion escape at Mars: MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7142-7152	2.6	25	
120	Current sheet structure and kinetic properties of plasma flows during a near-Earth magnetic reconnection under the presence of a guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3265-3287	2.6	25	
119	Kinetic models of current sheets with a sheared magnetic field. <i>Plasma Physics Reports</i> , 2012 , 38, 300-37	l 4 .2	24	
118	The structure of strongly tilted current sheets in the Earth magnetotail. <i>Annales Geophysicae</i> , 2014 , 32, 133-146	2	22	
117	Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma. <i>Space Science Reviews</i> , 2013 , 178, 441-457	7.5	22	
116	Profiles of electron temperature and <l>B</l>_z along Earth's magnetotail. <i>Annales Geophysicae</i> , 2013 , 31, 1109-1114	2	22	
115	Asymmetric thin current sheets in the Earth's magnetotail. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	22	
114	EVIDENCE FOR QUASI-ADIABATIC MOTION OF CHARGED PARTICLES IN STRONG CURRENT SHEETS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2017 , 834, 34	4.7	21	
113	Dynamics of ionospheric O+ ions in the magnetosphere during the 24\(\textit{D}\)5 September 1998 magnetic storm. <i>Journal of Geophysical Research</i> , 2006 , 111,		21	

112	Dynamics of charged particles in bifurcated current sheets: The 🔟 regime. <i>Journal of Geophysical Research</i> , 2004 , 109,		21
111	Thin current sheets in the presence of a guiding magnetic field in Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
110	A stochastic sea: The source of plasma sheet boundary layer ion structures observed by Cluster. Journal of Geophysical Research, 2005 , 110,		20
109	Thin current sheets: from the work of Ginzburg and Syrovatskii to the present day. <i>Physics-Uspekhi</i> , 2016 , 59, 1057-1090	2.8	20
108	Particle Acceleration in Mercury Magnetosphere. Space Science Reviews, 2007, 132, 593-609	7.5	19
107	Particle transport and acceleration in a time-varying electromagnetic field with a multi-scale structure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6284-6287	2.3	19
106	Multiplet structure of acceleration processes in the distant magnetotail. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	19
105	Statistical study of transient plasma structures in magnetotail lobes and plasma sheet boundary layer: Interball-1 observations. <i>Annales Geophysicae</i> , 2002 , 20, 329-340	2	19
104	High-latitude Conic Current Sheets in the Solar Wind. Astrophysical Journal, 2017, 836, 108	4.7	18
103	Impacts of fast meteoroids and a plasmadust cloud over the lunar surface. JETP Letters, 2017, 105, 63.	5-6 <u>4</u> 9	18
102	Ion motion in the current sheet with sheared magnetic field Part 1: Quasi-adiabatic theory. <i>Nonlinear Processes in Geophysics</i> , 2013 , 20, 163-178	2.9	18
101	Dynamical properties of self-consistent magnetotail configurations. <i>Journal of Geophysical Research</i> , 2000 , 105, 18807-18818		17
100	Regular and chaotic aspects of charged particle motion in a magnetotail-like field with a neutral line. <i>Geophysical Research Letters</i> , 1991 , 18, 1587-1590	4.9	17
99	Imprints of Quasi-Adiabatic Ion Dynamics on the Current Sheet Structures Observed in the Martian Magnetotail by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,176-10,193	2.6	16
98	Future lunar missions and investigation of dusty plasma processes on the Moon. <i>Journal of Plasma Physics</i> , 2013 , 79, 405-411	2.7	16
97	Project of the mission to Phobos. Solar System Research, 2010 , 44, 15-25	0.8	16
96	A comparison of solar wind and ionospheric plasma contributions to the September 24\(\mathbb{Z}\)5, 1998 magnetic storm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 212-222	2	16
95	Triple splitting of a thin current sheet: A new type of plasma equilibrium. <i>Plasma Physics Reports</i> , 2008 , 34, 128-134	1.2	16

(2021-2000)

94	Magnetic moment scattering in a field reversal with nonzero BY component. <i>Journal of Geophysical Research</i> , 2000 , 105, 349-359		16	
93	Mars's magnetotail: Nature's current sheet laboratory. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5404-5417	2.6	15	
92	Scientific objectives of the scientific equipment of the landing platform of the ExoMars-2018 mission. <i>Solar System Research</i> , 2015 , 49, 509-517	0.8	15	
91	Large-scale fluctuations of PSBL magnetic flux tubes induced by the field-aligned motion of highly accelerated ions. <i>Annales Geophysicae</i> , 2010 , 28, 1273-1288	2	15	
90	Asymmetric configurations of a thin current sheet with a constant normal magnetic field component. <i>Plasma Physics Reports</i> , 2009 , 35, 76-83	1.2	15	
89	Properties of Magnetic Field Fluctuations in the Earth® Magnetotail and Implications for the General Problem of Structure Formation in Hot Plasmas. <i>Space Science Reviews</i> , 2015 , 188, 287-310	7.5	14	
88	Current sheets in the Earth magnetosphere and in laboratory experiments: The magnetic field structure and the Hall effect. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 123, 699-715	1	14	
87	Dusty plasmas over the Moon. <i>Journal of Plasma Physics</i> , 2014 , 80, 885-893	2.7	14	
86	Multiscale Magnetic Structure of the Distant Tail: Self-Consistent Fractal Approach. <i>Geophysical Monograph Series</i> , 2013 , 321-339	1.1	14	
85	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	14	
84	Thin Current Sheets of Sub-ion Scales observed by MAVEN in the Martian Magnetotail. <i>Geophysical Research Letters</i> , 2019 , 46, 6214-6222	4.9	13	
83	Statistics of intense dawn-dusk currents in the Earth's magnetotail. <i>Journal of Geophysical Research:</i> Space Physics, 2015 , 120, 3804-3820	2.6	13	
82	Solar Wind Deflection by Mass Loading in the Martian Magnetosheath Based on MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 2574-2579	4.9	13	
81	Formation of sub-ion scale filamentary force-free structures in the vicinity of reconnection region. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 054002	2	13	
80	Martian ionosphere observed by MAVEN. 3. Influence of solar wind and IMF on upper ionosphere. <i>Planetary and Space Science</i> , 2018 , 160, 56-65	2	13	
79	Spatial-temporal ion structures in the earths magnetotail: Beamlets as a result of nonadiabatic impulse acceleration of the plasma. <i>JETP Letters</i> , 2004 , 80, 663-673	1.2	13	
78	Rapid geometrical chaotization in slow-fast Hamiltonian systems. <i>Physical Review E</i> , 2014 , 89, 060902	2.4	12	
77	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	12	

76	Charged particle acceleration by intermittent electromagnetic turbulence. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	11
75	Europa Lander mission and the context of international cooperation. <i>Advances in Space Research</i> , 2011 , 48, 615-628	2.4	11
74	Effects of nonlinearity on the structure of PSBL beamlets. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n,	/a 4.9	10
73	Formation of Dusty Plasma Clouds at Meteoroid Impact on the Surface of the Moon. <i>JETP Letters</i> , 2018 , 108, 356-363	1.2	10
72	Universal Scaling of Thin Current Sheets. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088422	4.9	9
71	THEMIS observations of the current sheet dynamics in response to the intrusion of the high-velocity plasma flow into the near-Earth magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6553-6568	2.6	9
70	Martian ionosphere observed by Mars Express. 2. Influence of solar irradiance on upper ionosphere and escape fluxes. <i>Planetary and Space Science</i> , 2017 , 145, 1-8	2	9
69	Two-dimensional configuration of the magnetotail current sheet: THEMIS observations. <i>Geophysical Research Letters</i> , 2015 , 42, 3662-3667	4.9	9
68	Antisunward structure of thin current sheets in the Earth's magnetotail: Implications of quasi-adiabatic theory. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4308-4318	2.6	9
67	Impact of Martian Crustal Magnetic Field on the Ion Escape. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028010	2.6	9
66	A possible mechanism of the enhancement and maintenance of the shear magnetic field component in the current sheet of the Earth magnetotail. <i>Plasma Physics Reports</i> , 2015 , 41, 88-101	1.2	8
65	Expansion and Shrinking of the Martian Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9725-9738	2.6	8
64	Transient properties of spatial structures in the plasma sheet boundary layer. <i>Cosmic Research</i> , 2007 , 45, 535-543	0.6	8
63	Imprints of small-scale nonadiabatic particle dynamics on large-scale properties of dynamical magnetotail equilibria. <i>Advances in Space Research</i> , 2002 , 30, 2657-2662	2.4	8
62	Large-Scale Kinetic Modeling of Magnetotail Dynamics. Space Science Reviews, 2001, 95, 257-271	7.5	8
61	Evolution of the Solar Wind Speed with Heliocentric Distance and Solar Cycle. Surprises from Ulysses and Unexpectedness from Observations of the Solar Corona. <i>Plasma Physics Reports</i> , 2018 , 44, 840-853	1.2	8
60	Model of a Thin Current Sheet in the Earth Magnetotail with a Kinetic Description of Magnetized Electrons. <i>Plasma Physics Reports</i> , 2018 , 44, 899-919	1.2	8
59	Modeling of Proton Acceleration in a Magnetic Island Inside the Ripple of the Heliospheric Current Sheet. <i>Solar System Research</i> , 2019 , 53, 30-55	0.8	7

(2017-2019)

58	Geophysical Research Letters, 2019 , 46, 12722-12730	4.9	7
57	Ion motion in the current sheet with sheared magnetic field Part 2: Non-adiabatic effects. <i>Nonlinear Processes in Geophysics</i> , 2013 , 20, 899-919	2.9	7
56	Current sheets in planetary magnetospheres. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 054002	2	6
55	Ion Anisotropy in Earth's Magnetotail Current Sheet: Multicomponent Ion Population. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3454-3467	2.6	6
54	Formation of self-organized shear structures in thin current sheets. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4802-4824	2.6	6
53	Tearing mode in thin current sheets of the Earth magnetosphere: A scenario of transition to unstable state. <i>Cosmic Research</i> , 2009 , 47, 352-360	0.6	6
52	Effect of the normal component of the magnetic field on the kink instability of the Earth magnetospheric current sheet. <i>Plasma Physics Reports</i> , 2008 , 34, 771-779	1.2	6
51	The Structure of Martian Magnetosphere at the Dayside Terminator Region as Observed on MAVEN Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2679-2695	2.6	6
50	Structure of Current Sheets with Quasi-Adiabatic Dynamics of Particles in the Solar Wind. <i>Cosmic Research</i> , 2018 , 56, 462-470	0.6	6
49	Acceleration of plasma in current sheet during substorm dipolarizations in the Earth's magnetotail: Comparison of different mechanisms. <i>Physics of Plasmas</i> , 2019 , 26, 042901	2.1	5
48	Lower-hybrid turbulence in the near-surface lunar dusty plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126627	2.3	5
47	Magnetohydrodynamic Modeling of the Solar Wind Key Parameters and Current Sheets in the Heliosphere: Radial and Solar Cycle Evolution. <i>Astrophysical Journal</i> , 2020 , 892, 12	4.7	5
46	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar Terrestrial Relation. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	5
45	Prospective spacecraft for venus research: Venera-D design. <i>Solar System Research</i> , 2011 , 45, 710-714	0.8	5
44	Lunar Dust: Properties and Potential Hazards. Solar System Research, 2020, 54, 455-476	0.8	5
43	Thin current sheets: from the work of Ginzburg and Syrovatskii to the present day. <i>Uspekhi Fizicheskikh Nauk</i> , 2016 , 186, 1153-1188	0.5	5
42	Earthward electric field and its reversal in the near-Earth current sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,803-10,812	2.6	5
41	Properties of the Equatorial Magnetotail Flanks ~50000 RE Downtail. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,917-11,930	2.6	4

40 Configuration of the Earth Magnetotail Current Sheet. Geophysical Research Letters, 2021, 48, e2020GL 4921534

39	Automated vehicles can do everything!. <i>Solar System Research</i> , 2015 , 49, 453-459	0.8	3
39	Accomaced vehicles can do everyening. Social System Mesearch, 2015 , 157, 155, 155	0.0)
38	Intermittency of magnetic field turbulence: Astrophysical applications of in-situ observations. <i>Journal of Plasma Physics</i> , 2015 , 81,	2.7	3
37	Unfinished Debates On the 120th anniversary of the birthday of A.L. Chizhevsky. <i>Herald of the Russian Academy of Sciences</i> , 2017 , 87, 535-542	0.7	3
36	Chaotic Charged Particle Motion and Acceleration in Reconnected Current Sheet. <i>Solar Physics</i> , 2015 , 290, 787-810	2.6	3
35	Accelerated ions observed in the plasma sheet boundary layer: Beams or streams?. <i>Geomagnetism and Aeronomy</i> , 2010 , 50, 720-732	0.9	3
34	MMS Observations of Super Thin Electron-Scale Current Sheets in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029641	2.6	3
33	Role of Electrostatic Effects in Thin Current Sheets. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2005 , 275-288		3
32	Structure of the current sheets in the near-Mars magnetotail. Maven observations. <i>Solar System Research</i> , 2017 , 51, 347-361	0.8	2
31	Particle Beams in the Vicinity of Magnetic Separatrix According to Near-Lunar ARTEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1883-1903	2.6	2
30	Drift modes of a quasi-two-dimensional current sheet. <i>Plasma Physics Reports</i> , 2012 , 38, 207-218	1.2	2
29	Quasi-adiabatic dynamics of ions in a bifurcated current sheet. <i>Plasma Physics Reports</i> , 2013 , 39, 307-3	15 _{1.2}	2
28	Effect of the global topology of the interplanetary magnetic field on the properties of impulsive acceleration processes in distant regions of the Earth magnetospheric tail. <i>Plasma Physics Reports</i> , 2005 , 31, 212-228	1.2	2
27	Atmospheric escape from the Earth during geomagnetic reversal. <i>Annals of Geophysics</i> , 2020 , 63,	1.1	2
26	Spatial and Temporal Structures in the Vicinity of the Earth® Tail Magnetic Separatrix Cluster Observations. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010 , 435-451	0.3	2
25	Modeling of Magnetic Dipolarizations and Turbulence in Earth Magnetotail as Factors of Plasma Acceleration and Transfer. <i>Cosmic Research</i> , 2018 , 56, 453-461	0.6	2
24	Acceleration and particle transport in collisionless plasma in the process of dipolarization and nonstationary turbulence. <i>Cosmic Research</i> , 2017 , 55, 417-425	0.6	1
23	Project phobos-grunt[Instruments for scientific research. <i>Solar System Research</i> , 2012 , 46, 489-492	0.8	1

22	Will the lunar renaissance come forth?. Solar System Research, 2011, 45, 697-704	0.8	1
21	Dust dynamics in the lunar dusty plasmas: Effects of magnetic fields and dust charge variations. <i>Physics of Plasmas</i> , 2022 , 29, 013701	2.1	1
20	Spatial Scales of Super Thin Current Sheets with MMS Observations in the Earth Magnetotail. <i>Geomagnetism and Aeronomy</i> , 2021 , 61, 688-695	0.9	1
19	Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma. <i>Space Sciences Series of ISSI</i> , 2013 , 365-381	0.1	1
18	Bursty Ion Escape Fluxes at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA02	8920	1
17	Particle Acceleration in the Magnetotail and Aurora. Space Sciences Series of ISSI, 2012, 49-102	0.1	1
16	Modified Kadomtsev P etviashvili Equation for Description of Nonlinear Perturbations in Plasma of Dusty Lunar Exosphere. <i>Plasma Physics Reports</i> , 2022 , 48, 361-366	1.2	1
15	Charged particle dynamics in turbulent current sheets. <i>Physical Review E</i> , 2016 , 93, 053207	2.4	О
14	Earth's Magnetotail as the Reservoir of Accelerated Single- and Multicharged Oxygen Ions Replenishing Radiation Belts. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA02821	7 ^{2.6}	0
13	Current Structures with Magnetic Shear in Space Plasma. <i>JETP Letters</i> , 2018 , 108, 557-569	1.2	О
12	Albert Galeev: The Problem of Metastability and Explosive Reconnection. <i>Plasma Physics Reports</i> , 2021 , 47, 857-877	1.2	O
11	Electron-scale Current Layers in the Martian Magnetotail: Spatial Scaling and Properties of Embedding. <i>Astrophysical Journal</i> , 2022 , 926, 160	4.7	O
10	Role of Oxygen Ions in the Structure of the Current Sheet of the Near-Earth Magnetotail. <i>Plasma Physics Reports</i> , 2022 , 48, 242-262	1.2	O
9	Moondust As a Risk Factor in Lunar Exploration. <i>Herald of the Russian Academy of Sciences</i> , 2021 , 91, 637-646	0.7	O
8	Modeling of different scenarios of thin current sheet equilibria in the Earth magnetotail. <i>Plasma Physics Reports</i> , 2015 , 41, 154-170	1.2	
7	Space weather today and the day after tomorrow. <i>Herald of the Russian Academy of Sciences</i> , 2015 , 85, 292-294	0.7	
6	A shear B field in the Earth's magnetotail and its variations in the current sheet. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018 , 177, 46-53	2	
5	PLASMA-F experiment: Three years of on-orbit operation. <i>Solar System Research</i> , 2015 , 49, 580-603	0.8	

- Properties of Magnetic Field Fluctuations in the Earth Magnetotail and Implications for the 0.1 General Problem of Structure Formation in Hot Plasmas. Space Sciences Series of ISSI, 2016, 307-330
- Current Sheets in the Earth Magnetotail: Plasma and Magnetic Field Structure with Cluster Project Observations. Space Sciences Series of ISSI, 2016, 331-357

- Triple splitting of a thin current sheet: A new type of plasma equilibrium 2010, 34, 128
- Kinetic Structure of Current Sheets in the Earth Magnetotail. Space Sciences Series of ISSI, 2012, 343-364_{0.1}