

Lev M Zelenyi

List of Publications by Year in descending order

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185
papers

6,312
citations

61857

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187
docs citations

187
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	Regular and chaotic charged particle motion in magnetotail-like field reversals: 1. Basic theory of trapped motion. <i>Journal of Geophysical Research</i> , 1989, 94, 11821-11842.	3.3	619
2	Fractal topology and strange kinetics: from percolation theory to problems in cosmic electrodynamics. <i>Physics-Usppekhi</i> , 2004, 47, 749-788.	0.8	196
3	Shaping of the magnetotail from the mantle: Global and local structuring. <i>Journal of Geophysical Research</i> , 1993, 98, 5651-5676.	3.3	184
4	Particle Acceleration in the Magnetotail and Aurora. <i>Space Science Reviews</i> , 2012, 173, 49-102.	3.7	173
5	Thin current sheets in collisionless plasma: Equilibrium structure, plasma instabilities, and particle acceleration. <i>Plasma Physics Reports</i> , 2011, 37, 118-160.	0.3	142
6	Chaotization of the electron motion as the cause of an internal magnetotail instability and substorm onset. <i>Journal of Geophysical Research</i> , 1987, 92, 13456-13466.	3.3	135
7	Thin current sheet embedded within a thicker plasma sheet: Self-consistent kinetic theory. <i>Journal of Geophysical Research</i> , 2000, 105, 13029-13043.	3.3	131
8	Circulation of Heavy Ions and Their Dynamical Effects in the Magnetosphere: Recent Observations and Models. <i>Space Science Reviews</i> , 2014, 184, 173-235.	3.7	130
9	Velocity-dispersed ion beams in the nightside auroral zone: AUREOL 3 observations. <i>Journal of Geophysical Research</i> , 1990, 95, 12119-12139.	3.3	120
10	Consequences of magnetotail ion dynamics. <i>Journal of Geophysical Research</i> , 1994, 99, 14891.	3.3	113
11	Transient and localized processes in the magnetotail: a review. <i>Annales Geophysicae</i> , 2008, 26, 955-1006.	0.6	112
12	Thin and superthin ion current sheets. Quasi-adiabatic and nonadiabatic models. <i>Nonlinear Processes in Geophysics</i> , 2000, 7, 127-139.	0.6	105
13	Nonlinear equilibrium structure of thin currents sheets: influence of electron pressure anisotropy. <i>Nonlinear Processes in Geophysics</i> , 2004, 11, 579-587.	0.6	94
14	Marginal stability of thin current sheets in the Earth's magnetotail. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 325-333.	0.6	84
15	Dusty plasma at the surface of the moon. <i>Solar System Research</i> , 2013, 47, 419-429.	0.3	80
16	Embedded current sheets in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	78
17	Generation of the energetic proton and electron bursts in planetary magnetotails. <i>Journal of Geophysical Research</i> , 1990, 95, 3883-3891.	3.3	77
18	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-Usppekhi</i> , 2011, 54, 875-918.	0.8	77

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19	Quasiadiabatic dynamics of charged particles in a space plasma. <i>Physics-Usppekhi</i> , 2013, 56, 347-394.	0.8	76
20	Effect of magnetic turbulence on the ion dynamics in the distant magnetotail. <i>Journal of Geophysical Research</i> , 1998, 103, 14897-14910.	3.3	73
21	Low frequency eigenmodes of thin anisotropic current sheets and Cluster observations. <i>Annales Geophysicae</i> , 2009, 27, 861-868.	0.6	69
22	Current Sheets in the Earth Magnetotail: Plasma and Magnetic Field Structure with Cluster Project Observations. <i>Space Science Reviews</i> , 2015, 188, 311-337.	3.7	69
23	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.	3.3	68
24	Fractal structures and power law spectra in the distant Earth's magnetotail. <i>Journal of Geophysical Research</i> , 1996, 101, 19903-19910.	3.3	66
25	The quasiadiabatic ion distribution in the central plasma sheet and its boundary layer. <i>Journal of Geophysical Research</i> , 1991, 96, 1601-1609.	3.3	63
26	Proton velocity distributions in the magnetotail: Theory and observations. <i>Journal of Geophysical Research</i> , 1996, 101, 2587-2598.	3.3	61
27	Thin embedded current sheets: Cluster observations of ion kinetic structure and analytical models. <i>Annales Geophysicae</i> , 2009, 27, 4075-4087.	0.6	61
28	Kinetic Structure of Current Sheets in the Earth Magnetotail. <i>Space Science Reviews</i> , 2013, 178, 419-440.	3.7	61
29	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.	1.5	58
30	Strange-Fermi processes and power-law nonthermal tails from a self-consistent fractional kinetic equation. <i>Physical Review E</i> , 2001, 64, 052101.	0.8	58
31	Proton velocity distribution in thin current sheets: Cluster observations and theory of transient trajectories. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
32	Dispersed ion structures at the poleward edge of the auroral oval: Lowaltitude observations and numerical modeling. <i>Journal of Geophysical Research</i> , 1993, 98, 19181-19204.	3.3	54
33	Matreshka-model of multilayered current sheet. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	54
34	Metastability of current sheets. <i>Physics-Usppekhi</i> , 2010, 53, 933-941.	0.8	53
35	Magnetic reconnection in collisionless field reversals the universality of the ion tearing mode. <i>Geophysical Research Letters</i> , 1991, 18, 1825-1828.	1.5	52
36	Aging of the magnetotail thin current sheets. <i>Geophysical Research Letters</i> , 2002, 29, 49-1.	1.5	52

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37	Intense current sheets in the magnetotail: Peculiarities of electron physics. Journal of Geophysical Research: Space Physics, 2013, 118, 2789-2799.	0.8	51
38	Substorm-associated pressure variations in the magnetotail plasma sheet and lobe. Journal of Geophysical Research, 1999, 104, 4501-4513.	3.3	50
39	â€œGeographyâ€ of ion acceleration in the magnetotail: $\langle i \rangle_X$ versus current sheet effects. Journal of Geophysical Research, 2009, 114, .	3.3	50
40	On the distributions of photoelectrons over the illuminated part of the moon. JETP Letters, 2014, 99, 115-120.	0.4	50
41	Universal properties of the nonadiabatic acceleration of ions in current sheets. JETP Letters, 2007, 85, 187-193.	0.4	49
42	Hemean Magnetosphere-Solar Wind Interaction. Space Science Reviews, 2007, 132, 529-550.	3.7	48
43	The Effect of Solar Wind Variations on the Escape of Oxygen Ions From Mars Through Different Channels: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,285.	0.8	44
44	Splitting of thin current sheets in the Earth's magnetosphere. JETP Letters, 2003, 78, 296-299.	0.4	42
45	Spatial-Temporal characteristics of ion beamlets in the plasma sheet boundary layer of magnetotail. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	42
46	Dusty plasma sheath-like structure in the region of lunar terminator. Physics of Plasmas, 2015, 22, .	0.7	42
47	The mosaic structure of plasma bulk flows in the Earth's magnetotail. Journal of Geophysical Research, 1995, 100, 19191.	3.3	41
48	Comparison of multi-point measurements of current sheet structure and analytical models. Annales Geophysicae, 2008, 26, 2749-2758.	0.6	39
49	Ion sources and acceleration mechanisms inferred from local distribution functions. Geophysical Research Letters, 1997, 24, 955-958.	1.5	38
50	LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme. Experimental Astronomy, 2009, 23, 849-892.	1.6	38
51	Plasma sheet ion injections into the auroral bulge: Correlative study of spacecraft and ground observations. Journal of Geophysical Research, 2000, 105, 18465-18481.	3.3	37
52	Earthward electric field in the magnetotail: Cluster observations and theoretical estimates. Geophysical Research Letters, 2010, 37, .	1.5	37
53	Adiabatic electron heating in the magnetotail current sheet: Cluster observations and analytical models. Journal of Geophysical Research, 2012, 117, .	3.3	37
54	Origin of low proton-to-electron temperature ratio in the Earth's plasma sheet. Journal of Geophysical Research: Space Physics, 2016, 121, 9985.	0.8	37

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55	Earth's distant magnetotail current sheet near and beyond lunar orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8663-8680.	0.8	35
56	Impacts of fast meteoroids and the separation of dust particles from the surface of the Moon. <i>JETP Letters</i> , 2016, 103, 563-567.	0.4	35
57	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.	0.3	34
58	Localized reconnection and substorm onset on Dec. 22, 1996. <i>Geophysical Research Letters</i> , 1999, 26, 3545-3548.	1.5	33
59	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.	3.7	33
60	Precipitation of fast ion beams from the plasma sheet boundary layer. <i>Geophysical Research Letters</i> , 1992, 19, 617-620.	1.5	32
61	Instabilities of collisionless current sheets: Theory and simulations. <i>Physics of Plasmas</i> , 2002, 9, 1104-1112.	0.7	32
62	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	32
63	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.	0.8	30
64	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.	0.8	29
65	Asymmetric thin current sheets in the Earth's magnetotail. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	28
66	Dynamics of charged particles in bifurcated current sheets: The $\beta \ll 1$ regime. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	27
67	Acceleration and transport of ions in turbulent current sheets: formation of non-maxwellian energy distribution. <i>Nonlinear Processes in Geophysics</i> , 2009, 16, 631-639.	0.6	27
68	Kinetic models of current sheets with a sheared magnetic field. <i>Plasma Physics Reports</i> , 2012, 38, 300-314.	0.3	27
69	The structure of strongly tilted current sheets in the Earth magnetotail. <i>Annales Geophysicae</i> , 2014, 32, 133-146.	0.6	27
70	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.	0.6	26
71	Profiles of electron temperature and B_z along Earth's magnetotail. <i>Annales Geophysicae</i> , 2013, 31, 1109-1114.	0.6	25
72	Thin current sheets: from the work of Ginzburg and Syrovatskii to the present day. <i>Physics-Usppekhi</i> , 2016, 59, 1057-1090.	0.8	25

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73	EVIDENCE FOR QUASI-ADIABATIC MOTION OF CHARGED PARTICLES IN STRONG CURRENT SHEETS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2017, 834, 34.	1.6	25
74	The Induced Magnetosphere of Mars: Asymmetrical Topology of the Magnetic Field Lines. <i>Geophysical Research Letters</i> , 2019, 46, 12722-12730.	1.5	25
75	A stochastic sea: The source of plasma sheet boundary layer ion structures observed by Cluster. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	24
76	Thin current sheets in the presence of a guiding magnetic field in Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
77	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	24
78	Multiplet structure of acceleration processes in the distant magnetotail. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	23
79	Dynamics of ionospheric O ⁺ ions in the magnetosphere during the 24 th -25 September 1998 magnetic storm. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	23
80	Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma. <i>Space Science Reviews</i> , 2013, 178, 441-457.	3.7	23
81	Scientific objectives of the scientific equipment of the landing platform of the ExoMars-2018 mission. <i>Solar System Research</i> , 2015, 49, 509-517.	0.3	23
82	Impacts of fast meteoroids and a plasma ⁺ dust cloud over the lunar surface. <i>JETP Letters</i> , 2017, 105, 635-640.	0.4	23
83	Lunar Dust: Properties and Potential Hazards. <i>Solar System Research</i> , 2020, 54, 455-476.	0.3	23
84	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.	0.9	22
85	Current sheets in the Earth ⁺ s 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.	0.2	22
86	Mars's magnetotail: Nature's current sheet laboratory. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5404-5417.	0.8	22
87	Multiscale Magnetic Structure of the Distant Tail: Self-Consistent Fractal Approach. <i>Geophysical Monograph Series</i> , 0, , 321-339.	0.1	21
88	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.	0.6	21
89	High-latitude Conic Current Sheets in the Solar Wind. <i>Astrophysical Journal</i> , 2017, 836, 108.	1.6	21
90	Solar Wind Deflection by Mass Loading in the Martian Magnetosheath Based on MAVEN Observations. <i>Geophysical Research Letters</i> , 2018, 45, 2574-2579.	1.5	21

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91	Thin Current Sheets of Sub-ion Scales observed by MAVEN in the Martian Magnetotail. Geophysical Research Letters, 2019, 46, 6214-6222.	1.5	21
92	Particle Acceleration in Mercury's Magnetosphere. Space Science Reviews, 2007, 132, 593-609.	3.7	20
93	Future lunar missions and investigation of dusty plasma processes on the Moon. Journal of Plasma Physics, 2013, 79, 405-411.	0.7	20
94	Imprints of Quasi-Adiabatic Ion Dynamics on the Current Sheet Structures Observed in the Martian Magnetotail by MAVEN. Journal of Geophysical Research: Space Physics, 2017, 122, 10,176.	0.8	20
95	Magnetic moment scattering in a field reversal with non-zero Y component. Journal of Geophysical Research, 2000, 105, 349-359.	3.3	19
96	Properties of Magnetic Field Fluctuations in the Earth's Magnetotail and Implications for the General Problem of Structure Formation in Hot Plasmas. Space Science Reviews, 2015, 188, 287-310.	3.7	19
97	Impact of Martian Crustal Magnetic Field on the Ion Escape. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028010.	0.8	19
98	Regular and chaotic aspects of charged particle motion in a magnetotail-like field with a neutral line. Geophysical Research Letters, 1991, 18, 1587-1590.	1.5	18
99	Dynamical properties of self-consistent magnetotail configurations. Journal of Geophysical Research, 2000, 105, 18807-18818.	3.3	18
100	Triple splitting of a thin current sheet: A new type of plasma equilibrium. Plasma Physics Reports, 2008, 34, 128-134.	0.3	18
101	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar-Terrestrial Relation. Frontiers in Physics, 2020, 8, .	1.0	18
102	A comparison of solar wind and ionospheric plasma contributions to the September 24-25, 1998 magnetic storm. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 212-222.	0.6	17
103	Project of the mission to Phobos. Solar System Research, 2010, 44, 15-25.	0.3	17
104	Dusty plasmas over the Moon. Journal of Plasma Physics, 2014, 80, 885-893.	0.7	17
105	Martian ionosphere observed by MAVEN. 3. Influence of solar wind and IMF on upper ionosphere. Planetary and Space Science, 2018, 160, 56-65.	0.9	17
106	Lower-hybrid turbulence in the near-surface lunar dusty plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126627.	0.9	17
107	Asymmetric configurations of a thin current sheet with a constant normal magnetic field component. Plasma Physics Reports, 2009, 35, 76-83.	0.3	16
108	Expansion and Shrinking of the Martian Topside Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 9725-9738.	0.8	16

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109	Universal Scaling of Thin Current Sheets. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088422.	1.5	16
110	Spatial-temporal ion structures in the earth's magnetotail: Beamlets as a result of nonadiabatic impulse acceleration of the plasma. <i>JETP Letters</i> , 2004, 80, 663-673.	0.4	15
111	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.	0.6	15
112	Statistics of intense dawn-dusk currents in the Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3804-3820.	0.8	15
113	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.	0.9	15
114	Dust dynamics in the lunar dusty plasmas: Effects of magnetic fields and dust charge variations. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	15
115	Rapid geometrical chaotization in slow-fast Hamiltonian systems. <i>Physical Review E</i> , 2014, 89, 060902.	0.8	14
116	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.	0.8	14
117	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.	0.9	14
118	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092153.	1.5	14
119	Induced Magnetic Fields and Plasma Motions in the Inner Part of the Martian Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	14
120	Effects of nonlinearity on the structure of PSBL beamlets. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	13
121	Charged particle acceleration by intermittent electromagnetic turbulence. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	12
122	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.	0.8	12
123	Two-dimensional configuration of the magnetotail current sheet: THEMIS observations. <i>Geophysical Research Letters</i> , 2015, 42, 3662-3667.	1.5	12
124	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.	0.8	12
125	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.	0.3	12
126	Current sheets in planetary magnetospheres. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 054002.	0.9	12

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127	Europa Lander mission and the context of international cooperation. <i>Advances in Space Research</i> , 2011, 48, 615-628.	1.2	11
128	Formation of Dusty Plasma Clouds at Meteoroid Impact on the Surface of the Moon. <i>JETP Letters</i> , 2018, 108, 356-363.	0.4	11
129	Ion Anisotropy in Earth's Magnetotail Current Sheet: Multicomponent Ion Population. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3454-3467.	0.8	11
130	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.	0.6	10
131	A possible mechanism of the enhancement and maintenance of the shear magnetic field component in the current sheet of the Earth's magnetotail. <i>Plasma Physics Reports</i> , 2015, 41, 88-101.	0.3	10
132	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.	0.8	10
133	Large-Scale Kinetic Modeling of Magnetotail Dynamics. <i>Space Science Reviews</i> , 2001, 95, 257-271.	3.7	9
134	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.	1.2	9
135	Formation of self-organized shear structures in thin current sheets. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4802-4824.	0.8	9
136	Model of a Thin Current Sheet in the Earth's Magnetotail with a Kinetic Description of Magnetized Electrons. <i>Plasma Physics Reports</i> , 2018, 44, 899-919.	0.3	9
137	Transient properties of spatial structures in the plasma sheet boundary layer. <i>Cosmic Research</i> , 2007, 45, 535-543.	0.2	8
138	Effect of the normal component of the magnetic field on the kink instability of the Earth's magnetospheric current sheet. <i>Plasma Physics Reports</i> , 2008, 34, 771-779.	0.3	8
139	Tearing mode in thin current sheets of the Earth's magnetosphere: A scenario of transition to unstable state. <i>Cosmic Research</i> , 2009, 47, 352-360.	0.2	8
140	Prospective spacecraft for venus research: Venera-D design. <i>Solar System Research</i> , 2011, 45, 710-714.	0.3	8
141	Role of Electrostatic Effects in Thin Current Sheets. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2005, , 275-288.	0.1	8
142	Earthward electric field and its reversal in the near-Earth current sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,803.	0.8	7
143	Structure of Current Sheets with Quasi-Adiabatic Dynamics of Particles in the Solar Wind. <i>Cosmic Research</i> , 2018, 56, 462-470.	0.2	7
144	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.	0.3	7

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145	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.	1.6	7
146	Properties of the Equatorial Magnetotail Flanks $\sim 1/450 \sim 200 \text{ R}_E$ Downtail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,917.	0.8	6
147	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.	0.7	6
148	Bursty Ion Escape Fluxes at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028920.	0.8	6
149	Project "Phobos-grunt" Instruments for scientific research. <i>Solar System Research</i> , 2012, 46, 489-492.	0.3	4
150	Intermittency of magnetic field turbulence: Astrophysical applications of <i>in-situ</i> observations. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	4
151	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.	0.2	4
152	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.	0.8	4
153	Spatial Scales of Super Thin Current Sheets with MMS Observations in the Earth's Magnetotail. <i>Geomagnetism and Aeronomy</i> , 2021, 61, 688-695.	0.2	4
154	Modified Kadomtsev-Petviashvili Equation for Description of Nonlinear Perturbations in Plasma of Dusty Lunar Exosphere. <i>Plasma Physics Reports</i> , 2022, 48, 361-366.	0.3	4
155	Accelerated ions observed in the plasma sheet boundary layer: Beams or streams?. <i>Geomagnetism and Aeronomy</i> , 2010, 50, 720-732.	0.2	3
156	Chaotic Charged Particle Motion and Acceleration in Reconnected Current Sheet. <i>Solar Physics</i> , 2015, 290, 787-810.	1.0	3
157	Automated vehicles can do everything!. <i>Solar System Research</i> , 2015, 49, 453-459.	0.3	3
158	Structure of the current sheets in the near-Mars magnetotail. <i>Maven observations</i> . <i>Solar System Research</i> , 2017, 51, 347-361.	0.3	3
159	Electron-scale Current Layers in the Martian Magnetotail: Spatial Scaling and Properties of Embedding. <i>Astrophysical Journal</i> , 2022, 926, 160.	1.6	3
160	Moon dust As a Risk Factor in Lunar Exploration. <i>Herald of the Russian Academy of Sciences</i> , 2021, 91, 637-646.	0.2	3
161	Effect of the global topology of the interplanetary magnetic field on the properties of impulsive acceleration processes in distant regions of the Earth's magnetospheric tail. <i>Plasma Physics Reports</i> , 2005, 31, 212-228.	0.3	2
162	Drift modes of a quasi-two-dimensional current sheet. <i>Plasma Physics Reports</i> , 2012, 38, 207-218.	0.3	2

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163	Quasi-adiabatic dynamics of ions in a bifurcated current sheet. Plasma Physics Reports, 2013, 39, 307-315.	0.3	2
164	“Effective” collisions in weakly magnetized collisionless plasma: importance of Pitaevski’s effect for magnetic reconnection. Journal of Plasma Physics, 2016, 82, .	0.7	2
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