

Lev M Zelenyi

List of Publications by Year in descending order

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185
papers

6,312
citations

61857

43
h-index

85405

71
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187
all docs

187
docs citations

187
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Electron-scale Current Layers in the Martian Magnetotail: Spatial Scaling and Properties of Embedding. <i>Astrophysical Journal</i> , 2022, 926, 160.	1.6	3
3	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.	0.3	2
4	Modified Kadomtsevâ€“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
5	Ulysses Flyby in the Heliosphere: Comparison of the Solar Wind Model with Observational Data. <i>Universe</i> , 2022, 8, 324.	0.9	2
6	Earth's Magnetotail as the Reservoir of Accelerated Singleâ€“and Multicharged Oxygen Ions Replenishing Radiation Belts. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028217.	0.8	1
7	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	32
8	Configuration of the Earthâ€™s Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092153.	1.5	14
9	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	24
10	Bursty Ion Escape Fluxes at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028920.	0.8	6
11	Albert Galeev: The Problem of Metastability and Explosive Reconnection. <i>Plasma Physics Reports</i> , 2021, 47, 857-877.	0.3	2
12	Spatial Scales of Super Thin Current Sheets with MMS Observations in the Earthâ€™s Magnetotail. <i>Geomagnetism and Aeronomy</i> , 2021, 61, 688-695.	0.2	4
13	MMS Observations of Super Thin Electronâ€“scale Current Sheets in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029641.	0.8	10
14	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
15	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
16	Impact of Martian Crustal Magnetic Field on the Ion Escape. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028010.	0.8	19
17	Universal Scaling of Thin Current Sheets. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088422.	1.5	16
18	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.	0.9	17

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19	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
20	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar-Terrestrial Relation. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	18
21	Atmospheric escape from the Earth during geomagnetic reversal. <i>Annals of Geophysics</i> , 2020, 63, .	0.5	2
22	Lunar Dust: Properties and Potential Hazards. <i>Solar System Research</i> , 2020, 54, 455-476.	0.3	23
23	Expansion and Shrinking of the Martian Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9725-9738.	0.8	16
24	The Induced Magnetosphere of Mars: Asymmetrical Topology of the Magnetic Field Lines. <i>Geophysical Research Letters</i> , 2019, 46, 12722-12730.	1.5	25
25	Thin Current Sheets of Sub-ion Scales observed by MAVEN in the Martian Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 6214-6222.	1.5	21
26	Current sheets in planetary magnetospheres. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 054002.	0.9	12
27	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
28	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
29	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
30	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
31	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
32	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.	0.6	0
33	Current Structures with Magnetic Shear in Space Plasma. <i>JETP Letters</i> , 2018, 108, 557-569.	0.4	2
34	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
35	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
36	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

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37	Modeling of Magnetic Dipolarizations and Turbulence in Earth's Magnetotail as Factors of Plasma Acceleration and Transfer. <i>Cosmic Research</i> , 2018, 56, 453-461.	0.2	2
38	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
39	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
40	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.	0.9	17
41	High-latitude Conic Current Sheets in the Solar Wind. <i>Astrophysical Journal</i> , 2017, 836, 108.	1.6	21
42	Mars's magnetotail: Nature's current sheet laboratory. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5404-5417.	0.8	22
43	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
44	Structure of the current sheets in the near-Mars magnetotail. Mavén observations. <i>Solar System Research</i> , 2017, 51, 347-361.	0.3	3
45	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.	0.8	20
46	Impacts of fast meteoroids and a plasma "dust cloud over the lunar surface. <i>JETP Letters</i> , 2017, 105, 635-640.	0.4	23
47	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
48	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
49	Properties of the Equatorial Magnetotail Flanks $\sim 45^{\circ}$ – 200° R_E Downtail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,917.	0.8	6
50	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.	0.8	44
51	Acceleration and particle transport in collisionless plasma in the process of dipolarization and nonstationary turbulence. <i>Cosmic Research</i> , 2017, 55, 417-425.	0.2	1
52	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
53	Thin current sheets: from the work of Ginzburg and Syrovatskii to the present day. <i>Physics-Uspexhi</i> , 2016, 59, 1057-1090.	0.8	25
54	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

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55	â€œEffectiveâ€™ collisions in weakly magnetized collisionless plasma: importance of Pitaevskiâ€™s effect for magnetic reconnection. Journal of Plasma Physics, 2016, 82, .	0.7	2
56	Impacts of fast meteoroids and the separation of dust particles from the surface of the Moon. JETP Letters, 2016, 103, 563-567.	0.4	35
57	Charged particle dynamics in turbulent current sheets. Physical Review E, 2016, 93, 053207.	0.8	1
58	Current sheets in the Earthâ€™s magnetosphere and in laboratory experiments: The magnetic field structure and the Hall effect. Journal of Experimental and Theoretical Physics, 2016, 123, 699-715.	0.2	22
59	Formation of sub-ion scale filamentary force-free structures in the vicinity of reconnection region. Plasma Physics and Controlled Fusion, 2016, 58, 054002.	0.9	15
60	Origin of low protonâ€™toâ€™electron temperature ratio in the Earth's plasma sheet. Journal of Geophysical Research: Space Physics, 2016, 121, 9985.	0.8	37
61	Properties of Magnetic Field Fluctuations in the Earthâ€™s Magnetotail and Implications for the General Problem of Structure Formation in Hot Plasmas. Space Sciences Series of ISSI, 2016, , 307-330.	0.0	0
62	Current Sheets in the Earth Magnetotail: Plasma and Magnetic Field Structure with Cluster Project Observations. Space Sciences Series of ISSI, 2016, , 331-357.	0.0	0
63	Intermittency of magnetic field turbulence: Astrophysical applications of <i>in-situ</i> observations. Journal of Plasma Physics, 2015, 81, .	0.7	4
64	Formation of selfâ€™organized shear structures in thin current sheets. Journal of Geophysical Research: Space Physics, 2015, 120, 4802-4824.	0.8	9
65	Earth's distant magnetotail current sheet near and beyond lunar orbit. Journal of Geophysical Research: Space Physics, 2015, 120, 8663-8680.	0.8	35
66	Dusty plasma sheath-like structure in the region of lunar terminator. Physics of Plasmas, 2015, 22, .	0.7	42
67	Twoâ€™dimensional configuration of the magnetotail current sheet: THEMIS observations. Geophysical Research Letters, 2015, 42, 3662-3667.	1.5	12
68	PLASMA-F experiment: Three years of on-orbit operation. Solar System Research, 2015, 49, 580-603.	0.3	1
69	Chaotic Charged Particle Motion and Acceleration in Reconnected Current Sheet. Solar Physics, 2015, 290, 787-810.	1.0	3
70	Current Sheets in the Earth Magnetotail: Plasma and Magnetic Field Structure with Cluster Project Observations. Space Science Reviews, 2015, 188, 311-337.	3.7	69
71	A possible mechanism of the enhancement and maintenance of the shear magnetic field component in the current sheet of the Earthâ€™s magnetotail. Plasma Physics Reports, 2015, 41, 88-101.	0.3	10
72	Modeling of different scenarios of thin current sheet equilibria in the Earthâ€™s magnetotail. Plasma Physics Reports, 2015, 41, 154-170.	0.3	0

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73	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
74	Automated vehicles can do everything!. <i>Solar System Research</i> , 2015, 49, 453-459.	0.3	3
75	Space weather today and the day after tomorrow. <i>Herald of the Russian Academy of Sciences</i> , 2015, 85, 292-294.	0.2	0
76	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
77	Properties of Magnetic Field Fluctuations in the Earth's Magnetotail and Implications for the General Problem of Structure Formation in Hot Plasmas. <i>Space Science Reviews</i> , 2015, 188, 287-310.	3.7	19
78	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
79	The structure of strongly tilted current sheets in the Earth magnetotail. <i>Annales Geophysicae</i> , 2014, 32, 133-146.	0.6	27
80	Dusty plasmas over the Moon. <i>Journal of Plasma Physics</i> , 2014, 80, 885-893.	0.7	17
81	Rapid geometrical chaotization in slow-fast Hamiltonian systems. <i>Physical Review E</i> , 2014, 89, 060902.	0.8	14
82	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
83	On the distributions of photoelectrons over the illuminated part of the moon. <i>JETP Letters</i> , 2014, 99, 115-120.	0.4	50
84	Quasiadiabatic dynamics of charged particles in a space plasma. <i>Physics-Usppekhi</i> , 2013, 56, 347-394.	0.8	76
85	Quasi-adiabatic dynamics of ions in a bifurcated current sheet. <i>Plasma Physics Reports</i> , 2013, 39, 307-315.	0.3	2
86	Kinetic Structure of Current Sheets in the Earth Magnetotail. <i>Space Science Reviews</i> , 2013, 178, 419-440.	3.7	61
87	Dusty plasma at the surface of the moon. <i>Solar System Research</i> , 2013, 47, 419-429.	0.3	80
88	Future lunar missions and investigation of dusty plasma processes on the Moon. <i>Journal of Plasma Physics</i> , 2013, 79, 405-411.	0.7	20
89	Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma. <i>Space Science Reviews</i> , 2013, 178, 441-457.	3.7	23
90	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

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91	Intense current sheets in the magnetotail: Peculiarities of electron physics. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2789-2799.	0.8	51
92	Profiles of electron temperature and $\frac{B}{l}$ and $\frac{I}{z}$ along Earth's magnetotail. <i>Annales Geophysicae</i> , 2013, 31, 1109-1114.	0.6	25
93	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
94	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
95	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
96	Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma. <i>Space Sciences Series of ISSI</i> , 2013, , 365-381.	0.0	1
97	Adiabatic electron heating in the magnetotail current sheet: Cluster observations and analytical models. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	37
98	Particle Acceleration in the Magnetotail and Aurora. <i>Space Science Reviews</i> , 2012, 173, 49-102.	3.7	173
99	Project ‘‘Phobos-grunt’’: Instruments for scientific research. <i>Solar System Research</i> , 2012, 46, 489-492.	0.3	4
100	Kinetic models of current sheets with a sheared magnetic field. <i>Plasma Physics Reports</i> , 2012, 38, 300-314.	0.3	27
101	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
102	Drift modes of a quasi-two-dimensional current sheet. <i>Plasma Physics Reports</i> , 2012, 38, 207-218.	0.3	2
103	Particle Acceleration in the Magnetotail and Aurora. <i>Space Sciences Series of ISSI</i> , 2012, , 49-102.	0.0	2
104	Kinetic Structure of Current Sheets in the Earth Magnetotail. <i>Space Sciences Series of ISSI</i> , 2012, , 343-364.	0.0	0
105	Embedded current sheets in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	78
106	Charged particle acceleration by intermittent electromagnetic turbulence. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	12
107	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
108	Prospective spacecraft for venus research: Venera-D design. <i>Solar System Research</i> , 2011, 45, 710-714.	0.3	8

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109	Will the lunar renaissance come forth?. Solar System Research, 2011, 45, 697-704.	0.3	1
110	Thin current sheets in collisionless plasma: Equilibrium structure, plasma instabilities, and particle acceleration. Plasma Physics Reports, 2011, 37, 118-160.	0.3	142
111	Non-adiabatic Ion Acceleration in the Earth Magnetotail and Its Various Manifestations in the Plasma Sheet Boundary Layer. Space Science Reviews, 2011, 164, 133-181.	3.7	33
112	Europa Lander mission and the context of international cooperation. Advances in Space Research, 2011, 48, 615-628.	1.2	11
113	Investigation of intermittency and generalized self-similarity of turbulent boundary layers in laboratory and magnetospheric plasmas: towards a quantitative definition of plasma transport features. Physics-Uspekhi, 2011, 54, 875-918.	0.8	77
114	Project of the mission to Phobos. Solar System Research, 2010, 44, 15-25.	0.3	17
115	Accelerated ions observed in the plasma sheet boundary layer: Beams or streams?. Geomagnetism and Aeronomy, 2010, 50, 720-732.	0.2	3
116	Metastability of current sheets. Physics-Uspekhi, 2010, 53, 933-941.	0.8	53
117	Large-scale fluctuations of PSBL magnetic flux tubes induced by the field-aligned motion of highly accelerated ions. Annales Geophysicae, 2010, 28, 1273-1288.	0.6	15
118	Earthward electric field in the magnetotail: Cluster observations and theoretical estimates. Geophysical Research Letters, 2010, 37, .	1.5	37
119	Proton velocity distribution in thin current sheets: Cluster observations and theory of transient trajectories. Journal of Geophysical Research, 2010, 115, .	3.3	57
120	Spatial and Temporal Structures in the Vicinity of the Earth's Tail Magnetic Separatrix Cluster Observations. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 435-451.	0.3	2
121	10.1007/s11452-008-2005-5. , 2010, 34, 128.		0
122	Low frequency eigenmodes of thin anisotropic current sheets and Cluster observations. Annales Geophysicae, 2009, 27, 861-868.	0.6	69
123	Thin embedded current sheets: Cluster observations of ion kinetic structure and analytical models. Annales Geophysicae, 2009, 27, 4075-4087.	0.6	61
124	Acceleration and transport of ions in turbulent current sheets: formation of non-maxwellian energy distribution. Nonlinear Processes in Geophysics, 2009, 16, 631-639.	0.6	27
125	LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme. Experimental Astronomy, 2009, 23, 849-892.	1.6	38
126	Tearing mode in thin current sheets of the Earth's magnetosphere: A scenario of transition to unstable state. Cosmic Research, 2009, 47, 352-360.	0.2	8

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127	Asymmetric configurations of a thin current sheet with a constant normal magnetic field component. Plasma Physics Reports, 2009, 35, 76-83.	0.3	16
128	â€œGeographyâ€ of ion acceleration in the magnetotail: X -line versus current sheet effects. Journal of Geophysical Research, 2009, 114, .	3.3	50
129	Marginal stability of thin current sheets in the Earth's magnetotail. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 325-333.	0.6	84
130	Particle transport and acceleration in a time-varying electromagnetic field with a multi-scale structure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6284-6287.	0.9	22
131	Triple splitting of a thin current sheet: A new type of plasma equilibrium. Plasma Physics Reports, 2008, 34, 128-134.	0.3	18
132	Effect of the normal component of the magnetic field on the kink instability of the Earth's magnetospheric current sheet. Plasma Physics Reports, 2008, 34, 771-779.	0.3	8
133	Transient and localized processes in the magnetotail: a review. Annales Geophysicae, 2008, 26, 955-1006.	0.6	112
134	Comparison of multi-point measurements of current sheet structure and analytical models. Annales Geophysicae, 2008, 26, 2749-2758.	0.6	39
135	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
136	Asymmetric thin current sheets in the Earth's magnetotail. Geophysical Research Letters, 2007, 34, .	1.5	28
137	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
138	Transient properties of spatial structures in the plasma sheet boundary layer. Cosmic Research, 2007, 45, 535-543.	0.2	8
139	Universal properties of the nonadiabatic acceleration of ions in current sheets. JETP Letters, 2007, 85, 187-193.	0.4	49
140	Numerical simulations of plasma equilibrium in a one-dimensional current sheet with a nonzero normal magnetic field component. Plasma Physics Reports, 2007, 33, 942-955.	0.3	34
141	Particle Acceleration in Mercury's Magnetosphere. Space Science Reviews, 2007, 132, 593-609.	3.7	20
142	Hermean Magnetosphere-Solar Wind Interaction. Space Science Reviews, 2007, 132, 529-550.	3.7	48
143	Multiplet structure of acceleration processes in the distant magnetotail. Geophysical Research Letters, 2006, 33, .	1.5	23
144	â€œMatreshkaâ€ model of multilayered current sheet. Geophysical Research Letters, 2006, 33, .	1.5	54

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145	Effects of nonlinearity on the structure of PSBL beamlets. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	13
146	Dynamics of ionospheric O ⁺ ions in the magnetosphere during the 24–25 September 1998 magnetic storm. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	23
147	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
148	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
149	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
150	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
151	Fractal topology and strange kinetics: from percolation theory to problems in cosmic electrodynamics. <i>Physics-Usppekhi</i> , 2004, 47, 749-788.	0.8	196
152	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
153	Dynamics of charged particles in bifurcated current sheets: The $\beta \ll 1$ regime. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	27
154	Splitting of thin current sheets in the Earth's magnetosphere. <i>JETP Letters</i> , 2003, 78, 296-299.	0.4	42
155	Instabilities of collisionless current sheets: Theory and simulations. <i>Physics of Plasmas</i> , 2002, 9, 1104-1112.	0.7	32
156	“Aging” of the magnetotail thin current sheets. <i>Geophysical Research Letters</i> , 2002, 29, 49-1.	1.5	52
157	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
158	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
159	Large-Scale Kinetic Modeling of Magnetotail Dynamics. <i>Space Science Reviews</i> , 2001, 95, 257-271.	3.7	9
160	“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
161	Thin and superthin ion current sheets. Quasi-adiabatic and nonadiabatic models. <i>Nonlinear Processes in Geophysics</i> , 2000, 7, 127-139.	0.6	105
162	Dynamical properties of self-consistent magnetotail configurations. <i>Journal of Geophysical Research</i> , 2000, 105, 18807-18818.	3.3	18

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163	Thin current sheet embedded within a thicker plasma sheet: Self-consistent kinetic theory. Journal of Geophysical Research, 2000, 105, 13029-13043.	3.3	131
164	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
165	Magnetic moment scattering in a field reversal with nonzero BY component. Journal of Geophysical Research, 2000, 105, 349-359.	3.3	19
166	Substorm-associated pressure variations in the magnetotail plasma sheet and lobe. Journal of Geophysical Research, 1999, 104, 4501-4513.	3.3	50
167	Localized reconnection and substorm onset on Dec. 22, 1996. Geophysical Research Letters, 1999, 26, 3545-3548.	1.5	33
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