

Lev M Zelenyi

List of Publications by Year in Descending Order

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

183
papers

5,138
citations

40
h-index

64
g-index

187
ext. papers

5,576
ext. citations

2.6
avg, IF

5.52
L-index

#	Paper	IF	Citations
183	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
182	Electron-scale Current Layers in the Martian Magnetotail: Spatial Scaling and Properties of Embedding. <i>Astrophysical Journal</i> , 2022 , 926, 160	4.7	0
181	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	0
180	Modified Kadomtsev-Betviashvili Equation for Description of Nonlinear Perturbations in Plasma of Dusty Lunar Exosphere. <i>Plasma Physics Reports</i> , 2022 , 48, 361-366	1.2	1
179	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
178	Spatial Scales of Super Thin Current Sheets with MMS Observations in the Earth's Magnetotail. <i>Geomagnetism and Aeronomy</i> , 2021 , 61, 688-695	0.9	1
177	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, e2020JA028217	2.6	0
176	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	14
175	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092153	4.9	1
174	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	12
173	Bursty Ion Escape Fluxes at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028920	2.0	1
172	Albert Galeev: The Problem of Metastability and Explosive Reconnection. <i>Plasma Physics Reports</i> , 2021 , 47, 857-877	1.2	0
171	Moon dust As a Risk Factor in Lunar Exploration. <i>Herald of the Russian Academy of Sciences</i> , 2021 , 91, 637-646	0.7	0
170	Universal Scaling of Thin Current Sheets. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088422	4.9	9
169	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
168	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
167	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

166	Lunar Dust: Properties and Potential Hazards. <i>Solar System Research</i> , 2020 , 54, 455-476	0.8	5
165	Atmospheric escape from the Earth during geomagnetic reversal. <i>Annals of Geophysics</i> , 2020 , 63,	1.1	2
164	Impact of Martian Crustal Magnetic Field on the Ion Escape. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028010	2.6	9
163	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
162	Current sheets in planetary magnetospheres. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 054002	2	6
161	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
160	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
159	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
158	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
157	Expansion and Shrinking of the Martian Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9725-9738	2.6	8
156	The Induced Magnetosphere of Mars: Asymmetrical Topology of the Magnetic Field Lines. <i>Geophysical Research Letters</i> , 2019 , 46, 12722-12730	4.9	7
155	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
154	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	
153	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
152	Current Structures with Magnetic Shear in Space Plasma. <i>JETP Letters</i> , 2018 , 108, 557-569	1.2	0
151	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
150	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
149	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

148	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	0.6	2
147	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
146	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	1.2	8
145	High-latitude Conic Current Sheets in the Solar Wind. <i>Astrophysical Journal</i> , 2017 , 836, 108	4.7	18
144	Mars's magnetotail: Nature's current sheet laboratory. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5404-5417	2.6	15
143	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
142	Structure of the current sheets in the near-Mars magnetotail. Maven observations. <i>Solar System Research</i> , 2017 , 51, 347-361	0.8	2
141	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
140	Impacts of fast meteoroids and a plasma-dust cloud over the lunar surface. <i>JETP Letters</i> , 2017 , 105, 635-640	6.4	18
139	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
138	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
137	Properties of the Equatorial Magnetotail Flanks ~50°-90° RE Downtail. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,917-11,930	2.6	4
136	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, 11,285-11,301	2.6	26
135	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
134	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
133	Charged particle dynamics in turbulent current sheets. <i>Physical Review E</i> , 2016 , 93, 053207	2.4	0
132	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	1	14
131	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

130	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
129	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
128	Properties of Magnetic Field Fluctuations in the Earth's Magnetotail and Implications for the General Problem of Structure Formation in Hot Plasmas. <i>Space Sciences Series of ISSI</i> , 2016 , 307-330	0.1	
127	Current Sheets in the Earth Magnetotail: Plasma and Magnetic Field Structure with Cluster Project Observations. <i>Space Sciences Series of ISSI</i> , 2016 , 331-357	0.1	
126	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
125	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
124	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
123	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
122	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	1.2	8
121	Modeling of different scenarios of thin current sheet equilibria in the Earth's magnetotail. <i>Plasma Physics Reports</i> , 2015 , 41, 154-170	1.2	
120	Statistics of intense dawn-dusk currents in the Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3804-3820	2.6	13
119	Automated vehicles can do everything!. <i>Solar System Research</i> , 2015 , 49, 453-459	0.8	3
118	Space weather today and the day after tomorrow. <i>Herald of the Russian Academy of Sciences</i> , 2015 , 85, 292-294	0.7	
117	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
116	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	7.5	14
115	Intermittency of magnetic field turbulence: Astrophysical applications of in-situ observations. <i>Journal of Plasma Physics</i> , 2015 , 81,	2.7	3
114	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
113	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

112	Dusty plasma sheath-like structure in the region of lunar terminator. <i>Physics of Plasmas</i> , 2015 , 22, 123701.1	1.1	33
111	Two-dimensional configuration of the magnetotail current sheet: THEMIS observations. <i>Geophysical Research Letters</i> , 2015 , 42, 3662-3667	4.9	9
110	PLASMA-F experiment: Three years of on-orbit operation. <i>Solar System Research</i> , 2015 , 49, 580-603	0.8	
109	Chaotic Charged Particle Motion and Acceleration in Reconnected Current Sheet. <i>Solar Physics</i> , 2015 , 290, 787-810	2.6	3
108	Rapid geometrical chaotization in slow-fast Hamiltonian systems. <i>Physical Review E</i> , 2014 , 89, 060902	2.4	12
107	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
106	On the distributions of photoelectrons over the illuminated part of the moon. <i>JETP Letters</i> , 2014 , 99, 115-120	1.2	37
105	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
104	The structure of strongly tilted current sheets in the Earth magnetotail. <i>Annales Geophysicae</i> , 2014 , 32, 133-146	2	22
103	Dusty plasmas over the Moon. <i>Journal of Plasma Physics</i> , 2014 , 80, 885-893	2.7	14
102	Quasiadiabatic dynamics of charged particles in a space plasma. <i>Physics-Uspekhi</i> , 2013 , 56, 347-394	2.8	57
101	Quasi-adiabatic dynamics of ions in a bifurcated current sheet. <i>Plasma Physics Reports</i> , 2013 , 39, 307-315.1.2	1.2	2
100	Kinetic Structure of Current Sheets in the Earth Magnetotail. <i>Space Science Reviews</i> , 2013 , 178, 419-440	7.5	50
99	Dusty plasma at the surface of the moon. <i>Solar System Research</i> , 2013 , 47, 419-429	0.8	60
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	Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma. <i>Space Science Reviews</i> , 2013 , 178, 441-457	7.5	22
96	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
95	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

94	Profiles of electron temperature and B_z along Earth's magnetotail. <i>Annales Geophysicae</i> , 2013 , 31, 1109-1114	2	22
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	2.6	9
92	Multiscale Magnetic Structure of the Distant Tail: Self-Consistent Fractal Approach. <i>Geophysical Monograph Series</i> , 2013 , 321-339	1.1	14
91	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
90	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
89	Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma. <i>Space Sciences Series of ISSI</i> , 2013 , 365-381	0.1	1
88	Drift modes of a quasi-two-dimensional current sheet. <i>Plasma Physics Reports</i> , 2012 , 38, 207-218	1.2	2
87	Particle Acceleration in the Magnetotail and Aurora. <i>Space Science Reviews</i> , 2012 , 173, 49-102	7.5	143
86	Project "hobos-grunt" Instruments for scientific research. <i>Solar System Research</i> , 2012 , 46, 489-492	0.8	1
85	Kinetic models of current sheets with a sheared magnetic field. <i>Plasma Physics Reports</i> , 2012 , 38, 300-314	4.2	24
84	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
83	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
82	Kinetic Structure of Current Sheets in the Earth Magnetotail. <i>Space Sciences Series of ISSI</i> , 2012 , 343-364	0.1	
81	Particle Acceleration in the Magnetotail and Aurora. <i>Space Sciences Series of ISSI</i> , 2012 , 49-102	0.1	1
80	Embedded current sheets in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2011 , 116,		71
79	Charged particle acceleration by intermittent electromagnetic turbulence. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	11
78	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
77	Prospective spacecraft for venus research: Venera-D design. <i>Solar System Research</i> , 2011 , 45, 710-714	0.8	5

76	Will the lunar renaissance come forth?. <i>Solar System Research</i> , 2011 , 45, 697-704	0.8	1
75	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
74	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
73	Europa Lander mission and the context of international cooperation. <i>Advances in Space Research</i> , 2011 , 48, 615-628	2.4	11
72	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
71	Accelerated ions observed in the plasma sheet boundary layer: Beams or streams?. <i>Geomagnetism and Aeronomy</i> , 2010 , 50, 720-732	0.9	3
70	Metastability of current sheets. <i>Physics-Uspekhi</i> , 2010 , 53, 933-941	2.8	42
69	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
68	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
67	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
66	Project of the mission to Phobos. <i>Solar System Research</i> , 2010 , 44, 15-25	0.8	16
65	Spatial and Temporal Structures in the Vicinity of the Earth's Tail Magnetic Separatrix Cluster Observations. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010 , 435-451	0.3	2
64	Triple splitting of a thin current sheet: A new type of plasma equilibrium 2010 , 34, 128		
63	Low frequency eigenmodes of thin anisotropic current sheets and Cluster observations. <i>Annales Geophysicae</i> , 2009 , 27, 861-868	2	64
62	Thin embedded current sheets: Cluster observations of ion kinetic structure and analytical models. <i>Annales Geophysicae</i> , 2009 , 27, 4075-4087	2	58
61	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	2.9	26
60	LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme. <i>Experimental Astronomy</i> , 2009 , 23, 849-892	1.3	33
59	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	0.6	6

58	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
57	Geography of ion acceleration in the magnetotail: X-line versus current sheet effects. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		44
56	Transient and localized processes in the magnetotail: a review. <i>Annales Geophysicae</i> , 2008 , 26, 955-1006	2	100
55	Comparison of multi-point measurements of current sheet structure and analytical models. <i>Annales Geophysicae</i> , 2008 , 26, 2749-2758	2	37
54	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
53	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
52	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
51	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	1.2	6
50	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
49	Asymmetric thin current sheets in the Earth's magnetotail. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	22
48	A comparison of solar wind and ionospheric plasma contributions to the September 24-25, 1998 magnetic storm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 212-222	2	16
47	Transient properties of spatial structures in the plasma sheet boundary layer. <i>Cosmic Research</i> , 2007 , 45, 535-543	0.6	8
46	Universal properties of the nonadiabatic acceleration of ions in current sheets. <i>JETP Letters</i> , 2007 , 85, 187-193	1.2	43
45	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
44	Particle Acceleration in Mercury's Magnetosphere. <i>Space Science Reviews</i> , 2007 , 132, 593-609	7.5	19
43	Hermean Magnetosphere-Solar Wind Interaction. <i>Space Science Reviews</i> , 2007 , 132, 529-550	7.5	47
42	Multiplet structure of acceleration processes in the distant magnetotail. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	19
41	Matreshka model of multilayered current sheet. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	44

40	Effects of nonlinearity on the structure of PSBL beamlets. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a.9		10
39	Dynamics of ionospheric O ⁺ ions in the magnetosphere during the 24-25 September 1998 magnetic storm. <i>Journal of Geophysical Research</i> , 2006 , 111,		21
38	A stochastic sea: The source of plasma sheet boundary layer ion structures observed by Cluster. <i>Journal of Geophysical Research</i> , 2005 , 110,		20
37	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	1.2	2
36	Role of Electrostatic Effects in Thin Current Sheets. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2005 , 275-288		3
35	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
34	Fractal topology and strange kinetics: from percolation theory to problems in cosmic electrodynamics. <i>Physics-USpekhi</i> , 2004 , 47, 749-788	2.8	157
33	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	1.2	13
32	Dynamics of charged particles in bifurcated current sheets: The $\beta \ll 1$ regime. <i>Journal of Geophysical Research</i> , 2004 , 109,		21
31	Splitting of thin current sheets in the Earth's magnetosphere. <i>JETP Letters</i> , 2003 , 78, 296-299	1.2	32
30	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
29	Instabilities of collisionless current sheets: Theory and simulations. <i>Physics of Plasmas</i> , 2002 , 9, 1104-1112	1	32
28	Aging of the magnetotail thin current sheets. <i>Geophysical Research Letters</i> , 2002 , 29, 49-1	4.9	39
27	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
26	Large-Scale Kinetic Modeling of Magnetotail Dynamics. <i>Space Science Reviews</i> , 2001 , 95, 257-271	7.5	8
25	"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
24	Thin and superthin ion current sheets. Quasi-adiabatic and nonadiabatic models. <i>Nonlinear Processes in Geophysics</i> , 2000 , 7, 127-139	2.9	93
23	Dynamical properties of self-consistent magnetotail configurations. <i>Journal of Geophysical Research</i> , 2000 , 105, 18807-18818		17

22	Thin current sheet embedded within a thicker plasma sheet: Self-consistent kinetic theory. <i>Journal of Geophysical Research</i> , 2000 , 105, 13029-13043		110
21	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
20	Magnetic moment scattering in a field reversal with nonzero BY component. <i>Journal of Geophysical Research</i> , 2000 , 105, 349-359		16
19	Substorm-associated pressure variations in the magnetotail plasma sheet and lobe. <i>Journal of Geophysical Research</i> , 1999 , 104, 4501-4513		44
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