

Anatoli Petrukovich

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.

61
papers

1,847
citations

27
h-index

42
g-index

64
ext. papers

2,005
ext. citations

2.5
avg, IF

4.62
L-index

#	Paper	IF	Citations
61	Electron magnetosonic waves and sub-ion magnetic holes in the magnetotail plasma. <i>Physics of Plasmas</i> , 2022 , 29, 012902	2.1	0
60	Thermodynamics of the Magnetotail Current Sheet Thinning. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028969	2.6	3
59	Detailed Structure of Very High-Earth Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029004	2.6	0
58	On application of stochastic differential equations for simulation of nonlinear waveparticle resonant interactions. <i>Physics of Plasmas</i> , 2021 , 28, 092904	2.1	1
57	Charged particle scattering in dipolarized magnetotail. <i>Physics of Plasmas</i> , 2021 , 28, 102901	2.1	0
56	Contribution of Anisotropic Electron Current to the Magnetotail Current Sheet as a Function of Location and Plasma Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027251	2.6	9
55	Comparison of the Flank Magnetopause at Near-Earth and Lunar Distances: MMS and ARTEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028406	2.6	1
54	Global View of Current Sheet Thinning: Plasma Pressure Gradients and Large-Scale Currents. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 264-278	2.6	7
53	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
52	Spatial Scales and Plasma Properties of the Distant Magnetopause: Evidence for Selective Ion and Electron Transport. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5027-5041	2.6	2
51	Statistical Properties of Sub-Ion Magnetic Holes in the Dipolarized Magnetotail: Formation, Structure, and Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 342-359	2.6	20
50	Detailed Regression Model of Plasma Sheet By. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2872-2883	2.6	4
49	Cluster Observations of a Dispersive Flapping Event of Magnetotail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5571-5579	2.6	7
48	The Distribution of Two Flapping Types of Magnetotail Current Sheet: Implication for the Flapping Mechanism. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7413-7423	2.6	11
47	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1260-1278	2.6	27
46	Foreshock waves as observed in energetic ion flux. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4895-4904	2.6	3
45	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10891-10909	2.6	8

44	Relationship between electron field-aligned anisotropy and dawn-dusk magnetic field: Nine years of Cluster observations in the Earth magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9294-9305	2.6	2
43	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
42	Magnetotail Reconnection. <i>Astrophysics and Space Science Library</i> , 2016 , 277-313	0.3	11
41	Current sheet flapping in the near-Earth magnetotail: peculiarities of propagation and parallel currents. <i>Annales Geophysicae</i> , 2016 , 34, 739-750	2	4
40	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
39	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
38	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
37	Oscillations of energetic ions flux near the Earth's bow shock. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4700-4710	2.6	3
36	Time delay of interplanetary magnetic field penetration into Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3406-3414	2.6	20
35	Radial distribution of magnetic field in earth magnetotail current sheet. <i>Planetary and Space Science</i> , 2014 , 103, 273-285	2	10
34	Electron pitch angle/energy distribution in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7214-7227	2.6	34
33	Thin current sheets with strong bell-shape guide field: Cluster observations and models with beams. <i>Annales Geophysicae</i> , 2014 , 32, 1349-1360	2	24
32	The structure of strongly tilted current sheets in the Earth magnetotail. <i>Annales Geophysicae</i> , 2014 , 32, 133-146	2	22
31	Ionospheric response to oscillatory flow braking in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1529-1544	2.6	24
30	Energetic particle measurements onboard Spectr-R with MEP-2. <i>Cosmic Research</i> , 2013 , 51, 90-95	0.6	2
29	Cluster observations of B_z/\bar{B} during growth phase magnetotail stretching intervals. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5720-5730	2.6	37
28	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
27	Profiles of electron temperature and $\langle B_z \rangle_z$ along Earth's magnetotail. <i>Annales Geophysicae</i> , 2013 , 31, 1109-1114	2	22

26	Profile of strong magnetic field By component in magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		31
25	Ion resonance acceleration by dipolarization fronts: analytic theory and spacecraft observation. <i>Annales Geophysicae</i> , 2012 , 30, 317-324	2	47
24	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
23	Origins of plasma sheet By. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		56
22	Statistical survey on the magnetic structure in magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		49
21	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
20	Hot electrons as tracers of large-scale structure of magnetotail current sheets. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	23
19	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
18	Proton/electron temperature ratio in the magnetotail. <i>Annales Geophysicae</i> , 2011 , 29, 2253-2257	2	44
17	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
16	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
15	The analytic properties of the flapping current sheets in the earth magnetotail. <i>Planetary and Space Science</i> , 2010 , 58, 1215-1229	2	32
14	Low frequency eigenmodes of thin anisotropic current sheets and Cluster observations. <i>Annales Geophysicae</i> , 2009 , 27, 861-868	2	64
13	Thin embedded current sheets: Cluster observations of ion kinetic structure and analytical models. <i>Annales Geophysicae</i> , 2009 , 27, 4075-4087	2	58
12	Dipole tilt effects in plasma sheet <l>B<sub>y</sub></l>; statistical model and extreme values. <i>Annales Geophysicae</i> , 2009 , 27, 1343-1352	2	28
11	Tailward and earthward flow onsets observed by Cluster in a thin current sheet. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		33
10	Transient and localized processes in the magnetotail: a review. <i>Annales Geophysicae</i> , 2008 , 26, 955-1006	2	100
9	Comparison of multi-point measurements of current sheet structure and analytical models. <i>Annales Geophysicae</i> , 2008 , 26, 2749-2758	2	37

8	Formation of current density profile in tilted current sheets. <i>Annales Geophysicae</i> , 2008 , 26, 3669-3676	2	27
7	Asymmetric thin current sheets in the Earth's magnetotail. <i>Geophysical Research Letters</i> , 2007 , 34,	4-9	22
6	Thinning and stretching of the plasma sheet. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		58
5	Oscillatory magnetic flux tube slippage in the plasma sheet. <i>Annales Geophysicae</i> , 2006 , 24, 1695-1704	2	62
4	Electric current and magnetic field geometry in flapping magnetotail current sheets. <i>Annales Geophysicae</i> , 2005 , 23, 1391-1403	2	142
3	Plasma sheet structure during strongly northward IMF. <i>Journal of Geophysical Research</i> , 2003 , 108,		21
2	Small substorms: Solar wind input and magnetotail dynamics. <i>Journal of Geophysical Research</i> , 2000 , 105, 21109-21117		36
1	New mechanism for electron heating in shocks. <i>Physical Review Letters</i> , 1993 , 70, 1259-1262	7-4	107