

Anatoly A 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.

113
papers

2,497
citations

31
h-index

45
g-index

117
ext. papers

2,710
ext. citations

2.6
avg, IF

4.86
L-index

#	Paper	IF	Citations
113	Thermodynamics of the Magnetotail Current Sheet Thinning. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028969	2.6	3
112	Detailed Structure of Very High-Earth Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029004	2.6	0
111	On application of stochastic differential equations for simulation of nonlinear waveparticle resonant interactions. <i>Physics of Plasmas</i> , 2021 , 28, 092904	2.1	1
110	Charged particle scattering in dipolarized magnetotail. <i>Physics of Plasmas</i> , 2021 , 28, 102901	2.1	0
109	Influence of Oxygen Ions on the Structure of the Thin Current Sheet in the Earth's Magnetotail. <i>Geomagnetism and Aeronomy</i> , 2020 , 60, 171-183	0.9	1
108	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
107	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
106	Anatolii Iserovich Neishtadt. <i>Russian Mathematical Surveys</i> , 2020 , 75, 981-989	1.2	
105	Clustering of Fast Coronal Mass Ejections during Solar Cycles 23 and 24 and the Implications for CME-CME Interactions. <i>Astrophysical Journal</i> , 2020 , 899, 47	4.7	3
104	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
103	Current Sheets with Multicomponent Plasma in Magnetospheres of Planets of the Solar System. <i>Cosmic Research</i> , 2020 , 58, 426-435	0.6	
102	Formation of Multiple Current Sheets in the Heliospheric Plasma Sheet. <i>Cosmic Research</i> , 2020 , 58, 411-425		3
101	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
100	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
99	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
98	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
97	Model of Solar Wind in the Heliosphere at Low and High Latitudes. <i>Plasma Physics Reports</i> , 2018 , 44, 80-91	1.2	5

96	Detailed Regression Model of Plasma Sheet By. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2872-2883	2.6	4
95	Adiabatic Heating of Electrons in the Magnetospheric Current Sheet. <i>Plasma Physics Reports</i> , 2018 , 44, 559-567	1.2	
94	Bistatic Radar Detection in the Luna-Resurs Mission. <i>Solar System Research</i> , 2018 , 52, 287-300	0.8	1
93	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
92	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
91	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
90	The Solar Wind and Heliospheric Current System in the Years of Maximum and Minimum Solar Activity. <i>Cosmic Research</i> , 2018 , 56, 411-419	0.6	
89	Hall Effect in Laboratory and Space Current Sheets. <i>Plasma Physics Reports</i> , 2018 , 44, 1126-1134	1.2	4
88	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
87	Geomagnetic storm forecasting service StormFocus: 5 years online. <i>Journal of Space Weather and Space Climate</i> , 2018 , 8, A22	2.5	6
86	Foreshock waves as observed in energetic ion flux. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4895-4904	2.6	3
85	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
84	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
83	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
82	Heliospheric current sheet and effects of its interaction with solar cosmic rays. <i>Plasma Physics Reports</i> , 2016 , 42, 749-760	1.2	3
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	The Sun and heliosphere explorer the Interhelioprobe mission. <i>Geomagnetism and Aeronomy</i> , 2016 , 56, 781-841	0.9	17
79	Current sheet flapping in the near-Earth magnetotail: peculiarities of propagation and parallel currents. <i>Annales Geophysicae</i> , 2016 , 34, 739-750	2	4

78	Kinetic models of magnetic flux ropes observed in the Earth magnetosphere. <i>Physics of Plasmas</i> , 2016 , 23, 072901	2.1	11
77	Magnetic factor in solar-terrestrial relations and its impact on the human body: physical problems and prospects for research. <i>Physics-Usppekhi</i> , 2016 , 59, 502-510	2.8	20
76	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
75	Space weather today and the day after tomorrow. <i>Herald of the Russian Academy of Sciences</i> , 2015 , 85, 292-294	0.7	
74	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
73	Some aspects of magnetosphere-ionosphere relations. <i>Physics-Usppekhi</i> , 2015 , 58, 606-611	2.8	6
72	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
71	Two-dimensional configuration of the magnetotail current sheet: THEMIS observations. <i>Geophysical Research Letters</i> , 2015 , 42, 3662-3667	4.9	9
70	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
69	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
68	PLASMA-F experiment: Three years of on-orbit operation. <i>Solar System Research</i> , 2015 , 49, 580-603	0.8	
67	Formation of a quasi-one-dimensional current sheet in the laboratory experiment and in the Earth's magnetotail. <i>Plasma Physics Reports</i> , 2015 , 41, 71-87	1.2	7
66	Period and damping factor of Pi2 pulsations during oscillatory flow braking in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4512-4520	2.6	18
65	On the increasing oscillation period of flows at the tailward retreating flux pileup region during dipolarization. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6603-6611	2.6	10
64	Electron pitch angle/energy distribution in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7214-7227	2.6	34
63	Formation of the high-energy ion population in the earth's magnetotail: spacecraft observations and theoretical models. <i>Annales Geophysicae</i> , 2014 , 32, 1233-1246	2	10
62	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
61	The structure of strongly tilted current sheets in the Earth magnetotail. <i>Annales Geophysicae</i> , 2014 , 32, 133-146	2	22

60	Ionospheric response to oscillatory flow braking in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1529-1544	2.6	24
59	Energetic particle measurements onboard Spectr-R with MEP-2. <i>Cosmic Research</i> , 2013 , 51, 90-95	0.6	2
58	Cluster observations of B_z/μ during growth phase magnetotail stretching intervals. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5720-5730	2.6	37
57	RESONANCE Project for Studies of Wave-Particle Interactions in the Inner Magnetosphere. <i>Geophysical Monograph Series</i> , 2013 , 117-126	1.1	4
56	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
55	Plasma-F experiment onboard the Spectr-R satellite. <i>Cosmic Research</i> , 2013 , 51, 73-77	0.6	11
54	Double power-law spectra of energetic electrons in the Earth magnetotail. <i>Annales Geophysicae</i> , 2013 , 31, 91-106	2	12
53	Profiles of electron temperature and $\langle v^2 \rangle$ along Earth's magnetotail. <i>Annales Geophysicae</i> , 2013 , 31, 1109-1114	2	22
52	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
51	Flow bouncing and electron injection observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2055-2072	2.6	36
50	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
49	Profile of strong magnetic field By component in magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		31
48	Kinetic ballooning/interchange instability in a bent plasma sheet. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		35
47	Extended geomagnetic storm forecast ahead of available solar wind measurements. <i>Space Weather</i> , 2012 , 10, n/a-n/a	3.7	15
46	Ion resonance acceleration by dipolarization fronts: analytic theory and spacecraft observation. <i>Annales Geophysicae</i> , 2012 , 30, 317-324	2	47
45	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
44	Embedded current sheets in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2011 , 116,		71
43	Flux transport, dipolarization, and current sheet evolution during a double-onset substorm. <i>Journal of Geophysical Research</i> , 2011 , 116,		31

42	Origins of plasma sheet By. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		56
41	Charged particle acceleration by intermittent electromagnetic turbulence. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	11
40	Statistical survey on the magnetic structure in magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		49
39	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
38	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
37	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
36	Proton/electron temperature ratio in the magnetotail. <i>Annales Geophysicae</i> , 2011 , 29, 2253-2257	2	44
35	Metastability of current sheets. <i>Physics-Uspexhi</i> , 2010 , 53, 933-941	2.8	42
34	Multiple overshoot and rebound of a bursty bulk flow. <i>Geophysical Research Letters</i> , 2010 , 37,	4.9	139
33	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
32	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
31	Plasma sheet thickness during a bursty bulk flow reversal. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		54
30	Current Sheet in a non-Maxwellian collisionless plasma: Self-consistent theory, simulation, and comparison with spacecraft observations. <i>Plasma Physics Reports</i> , 2010 , 36, 841-858	1.2	7
29	Low frequency eigenmodes of thin anisotropic current sheets and Cluster observations. <i>Annales Geophysicae</i> , 2009 , 27, 861-868	2	64
28	Thin embedded current sheets: Cluster observations of ion kinetic structure and analytical models. <i>Annales Geophysicae</i> , 2009 , 27, 4075-4087	2	58
27	Variability of magnetic field spectra in the Earth's magnetotail. <i>Nonlinear Processes in Geophysics</i> , 2009 , 16, 691-698	2.9	2
26	Dipole tilt effects in plasma sheet B_y: statistical model and extreme values. <i>Annales Geophysicae</i> , 2009 , 27, 1343-1352	2	28
25	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

24	Planetary science. The elusive onset of geomagnetic substorms. <i>Science</i> , 2008 , 321, 920-1	33.3	2
23	Comparison of multi-point measurements of current sheet structure and analytical models. <i>Annales Geophysicae</i> , 2008 , 26, 2749-2758	2	37
22	Formation of current density profile in tilted current sheets. <i>Annales Geophysicae</i> , 2008 , 26, 3669-3676	2	27
21	Asymmetric thin current sheets in the Earth's magnetotail. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	22
20	<l>a<sub>p</sub></l>-index solar wind driving function and its semiannual variations. <i>Annales Geophysicae</i> , 2007 , 25, 1465-1469	2	3
19	Thinning and stretching of the plasma sheet. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		58
18	Oscillatory magnetic flux tube slippage in the plasma sheet. <i>Annales Geophysicae</i> , 2006 , 24, 1695-1704	2	62
17	The Substorm Onset Location Controversy. <i>Space Science Reviews</i> , 2006 , 122, 81-87	7.5	14
16	Cluster vision of the magnetotail current sheet on a macroscale. <i>Journal of Geophysical Research</i> , 2005 , 110,		14
15	Low Frequency Magnetic Fluctuations in the Earth's Plasma Sheet 2005 , 145-177		5
14	Influence of Solar Wind Parameters on the Level of Geomagnetic Field Fluctuations. <i>Cosmic Research</i> , 2004 , 42, 354-361	0.6	1
13	Magnetic Storms in October 2003. <i>Cosmic Research</i> , 2004 , 42, 489-535	0.6	38
12	Plasma sheet structure during strongly northward IMF. <i>Journal of Geophysical Research</i> , 2003 , 108,		21
11	Interball-tail observations of vertical plasma motions in the magnetotail. <i>Annales Geophysicae</i> , 2002 , 20, 321-327	2	11
10	Are earthward bursty bulk flows convective or field-aligned?. <i>Journal of Geophysical Research</i> , 2001 , 106, 21211-21215		28
9	Small substorms: Solar wind input and magnetotail dynamics. <i>Journal of Geophysical Research</i> , 2000 , 105, 21109-21117		36
8	Substorm-associated pressure variations in the magnetotail plasma sheet and lobe. <i>Journal of Geophysical Research</i> , 1999 , 104, 4501-4513		44
7	Two spacecraft observation of plasma sheet convection jet during continuous external driving. <i>Geophysical Research Letters</i> , 1999 , 26, 177-180	4.9	8

6	Small-amplitude bipolar flows in the near-Earth tail. <i>Geophysical Research Letters</i> , 1999 , 26, 2909-2912	4.9	4
5	Response of the midtail electric field to enhanced solar wind energy input. <i>Journal of Geophysical Research</i> , 1999 , 104, 17299-17310		16
4	Substorm dipolarization and recovery. <i>Journal of Geophysical Research</i> , 1999 , 104, 24995-25000		187
3	Two spacecraft observations of a reconnection pulse during an auroral breakup. <i>Journal of Geophysical Research</i> , 1998 , 103, 47-59		70
2	Short-duration convection bays and localized interplanetary magnetic field structures on November 28, 1995. <i>Journal of Geophysical Research</i> , 1998 , 103, 23593-23609		16
1	ULF/ELF monochromatic oscillations observed by Prognoz-8 and -10 spacecrafts during quasiperpendicular supercritical shock crossings. <i>Annales Geophysicae</i> , 1995 , 13, 573-582	2	2