

Victor Popov

List of Publications by Year in descending order

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78
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1,035
citations

516215

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31
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79
all docs

79
docs citations

79
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of Intermediate Turbulence in Space Plasma. <i>Cosmic Research</i> , 2022, 60, 9-14.	0.2	1
2	Ulysses Flyby in the Heliosphere: Comparison of the Solar Wind Model with Observational Data. <i>Universe</i> , 2022, 8, 324.	0.9	2
3	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.	0.8	1
4	Albert Galeev: The Problem of Metastability and Explosive Reconnection. <i>Plasma Physics Reports</i> , 2021, 47, 857-877.	0.3	2
5	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
6	An Analytical Two-Dimensional Model of the Planet's Magnetosphere. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2021, 76, 392-397.	0.1	0
7	Assessment under Covid-19: Exploring Undergraduate Students' Attitudes towards Their Online Thesis Proposal Presentations vs. Face-to-face. <i>Journal of Language and Education</i> , 2021, 7, 139-155.	0.2	1
8	Current Sheets with Multicomponent Plasma in Magnetospheres of Planets of the Solar System. <i>Cosmic Research</i> , 2020, 58, 426-435.	0.2	0
9	Formation of Multiple Current Sheets in the Heliospheric Plasma Sheet. <i>Cosmic Research</i> , 2020, 58, 411-425.	0.2	6
10	Radiation Belts during a Magnetic Field Reversal. <i>Cosmic Research</i> , 2020, 58, 227-233.	0.2	2
11	Universal Scaling of Thin Current Sheets. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088422.	1.5	16
12	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.	0.2	2
13	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
14	Atmospheric escape from the Earth during geomagnetic reversal. <i>Annals of Geophysics</i> , 2020, 63, .	0.5	2
15	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
16	Current sheets in planetary magnetospheres. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 054002.	0.9	12
17	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
18	The Ukrainian crisis, economic sanctions, oil shock and commodity currency: Analysis based on EMD approach. <i>Research in International Business and Finance</i> , 2019, 48, 156-168.	3.1	8

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19	Model of Solar Wind in the Heliosphere at Low and High Latitudes. Plasma Physics Reports, 2018, 44, 80-91.	0.3	7
20	A shear B field in the Earth's magnetotail and its variations in the current sheet. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 177, 46-53.	0.6	0
21	Current Structures with Magnetic Shear in Space Plasma. JETP Letters, 2018, 108, 557-569.	0.4	2
22	Structure of Current Sheets with Quasi-Adiabatic Dynamics of Particles in the Solar Wind. Cosmic Research, 2018, 56, 462-470.	0.2	7
23	The Solar Wind and Heliospheric Current System in the Years of Maximum and Minimum Solar Activity. Cosmic Research, 2018, 56, 411-419.	0.2	0
24	Modeling of Magnetic Dipolarizations and Turbulence in Earth's Magnetotail as Factors of Plasma Acceleration and Transfer. Cosmic Research, 2018, 56, 453-461.	0.2	2
25	What humankind can expect with an inversion of Earth's magnetic field: threats real and imagined. Physics-Uspekh, 2018, 61, 191-202.	0.8	5
26	Time Evolution of the Macroscopic Characteristics of a Thin Current Sheet in the Course of Its Formation in the Earth's Magnetotail. Plasma Physics Reports, 2018, 44, 424-437.	0.3	1
27	Plasma acceleration on multiscale temporal variations of electric and magnetic fields during substorm dipolarization in the Earth's magnetotail. Annals of Geophysics, 2018, 61, .	0.5	4
28	EVIDENCE FOR QUASI-ADIABATIC MOTION OF CHARGED PARTICLES IN STRONG CURRENT SHEETS IN THE SOLAR WIND. Astrophysical Journal, 2017, 834, 34.	1.6	25
29	Structure of the current sheets in the near-Mars magnetotail. Maven observations. Solar System Research, 2017, 51, 347-361.	0.3	3
30	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
31	Magnetopause charging and transfer of momentum and energy into magnetosphere. Bulletin of the Lebedev Physics Institute, 2017, 44, 99-105.	0.1	1
32	A multi-criteria approach to selecting an optimal portfolio of refinery upgrade projects under margin and tax regime uncertainty. Omega, 2017, 72, 50-58.	3.6	8
33	Evidence of temperature and precipitation change over the past 1000 years in a high-resolution pollen record from the boreal forest of Central European Russia. Holocene, 2017, 27, 740-751.	0.9	8
34	Acceleration and particle transport in collisionless plasma in the process of dipolarization and nonstationary turbulence. Cosmic Research, 2017, 55, 417-425.	0.2	1
35	Thin current sheets: from the work of Ginzburg and Syrovatskii to the present day. Physics-Uspekh, 2016, 59, 1057-1090.	0.8	25
36	On the superdiffusive scalings of transport in plasma. Bulletin of the Lebedev Physics Institute, 2016, 43, 132-137.	0.1	2

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37	Heliospheric current sheet and effects of its interaction with solar cosmic rays. Plasma Physics Reports, 2016, 42, 749-760.	0.3	3
38	Numerical simulation of ion-acoustic turbulence in the B. B. Kadomtsev model. Bulletin of the Lebedev Physics Institute, 2016, 43, 261-265.	0.1	0
39	A method for constructing the trajectory for an unmanned aerial vehicle in a city. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2016, 71, 161-167.	0.1	4
40	Theory of turbulent heating of current DT plasma. Bulletin of the Lebedev Physics Institute, 2016, 43, 26-34.	0.1	1
41	Formation of self-organized shear structures in thin current sheets. Journal of Geophysical Research: Space Physics, 2015, 120, 4802-4824.	0.8	9
42	Solar Cycle Characteristics and Their Relationship with Dynamo Theory. Journal of Physics: Conference Series, 2015, 661, 012009.	0.3	0
43	Modeling of different scenarios of thin current sheet equilibria in the Earth's magnetotail. Plasma Physics Reports, 2015, 41, 154-170.	0.3	0
44	Fine structure of the price-demand relationship in the electricity market: Multi-scale correlation analysis. Energy Economics, 2015, 51, 215-226.	5.6	17
45	The structure of the Venusian current sheet. Planetary and Space Science, 2014, 96, 81-89.	0.9	16
46	The estimate of the Venus magnetotail length. Solar System Research, 2014, 48, 91-104.	0.3	0
47	Mode of turbulent heating of plasma by hot and cold ions. Bulletin of the Lebedev Physics Institute, 2014, 41, 68-70.	0.1	0
48	Vlasov modes in the theory of ion-acoustic turbulence. Plasma Physics Reports, 2014, 40, 298-305.	0.3	6
49	Energy problems of the rational use of the economic potential of the region. , 2014, , .		3
50	Kinetic models of two-dimensional plane and axially symmetric current sheets: Group theory approach. Physics of Plasmas, 2013, 20, .	0.7	27
51	Antisunward structure of thin current sheets in the Earth's magnetotail: Implications of quasi-adiabatic theory. Journal of Geophysical Research: Space Physics, 2013, 118, 4308-4318.	0.8	12
52	Kinetic models of current sheets with a sheared magnetic field. Plasma Physics Reports, 2012, 38, 300-314.	0.3	27
53	Thin current sheets in the presence of a guiding magnetic field in Earth's magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	24
54	The kinetic model of the two dimensional cylindrical current sheet. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2012, 67, 37-42.	0.1	2

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55	Drift modes of a quasi-two-dimensional current sheet. Plasma Physics Reports, 2012, 38, 207-218.	0.3	2
56	Fast algorithm for the Markowitz critical line method. Mathematical Models and Computer Simulations, 2012, 4, 241-250.	0.1	0
57	Embedded current sheets in the Earth's magnetotail. Journal of Geophysical Research, 2011, 116, .	3.3	78
58	Thin current sheets in collisionless plasma: Equilibrium structure, plasma instabilities, and particle acceleration. Plasma Physics Reports, 2011, 37, 118-160.	0.3	142
59	Current Sheet in a non-Maxwellian collisionless plasma: Self-consistent theory, simulation, and comparison with spacecraft observations. Plasma Physics Reports, 2010, 36, 841-858.	0.3	8
60	Thin embedded current sheets: Cluster observations of ion kinetic structure and analytical models. Annales Geophysicae, 2009, 27, 4075-4087.	0.6	61
61	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
62	Asymmetry effect on the development of instabilities in current sheets. Geomagnetism and Aeronomy, 2009, 49, 1170-1171.	0.2	0
63	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
64	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
65	On Ohm's law in the thin current sheets of the Earth's magnetosphere. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2008, 63, 168-173.	0.1	0
66	Asymmetric thin current sheets in the Earth's magnetotail. Geophysical Research Letters, 2007, 34, .	1.5	28
67	Nonstationary three-dimensional contrasting structures. Computational Mathematics and Mathematical Physics, 2007, 47, 62-64.	0.2	0
68	"Matreshka" model of multilayered current sheet. Geophysical Research Letters, 2006, 33, .	1.5	54
69	Do phase portraits resist current sheet bifurcation?. Advances in Space Research, 2006, 37, 547-551.	1.2	6
70	Role of Electrostatic Effects in Thin Current Sheets. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2005, , 275-288.	0.1	8
71	Nonlinear equilibrium structure of thin currents sheets: influence of electron pressure anisotropy. Nonlinear Processes in Geophysics, 2004, 11, 579-587.	0.6	94
72	Evolution of ion distribution functions during the "aging" process of thin current sheets. Advances in Space Research, 2003, 31, 1207-1214.	1.2	4

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73	Splitting of thin current sheets in the Earth's magnetosphere. JETP Letters, 2003, 78, 296-299.	0.4	42
74	Forced current sheets in the Earth's magnetotail: Their role and evolution due to nonadiabatic particle scattering. Advances in Space Research, 2002, 30, 1629-1638.	1.2	13
75	Influence of Trapped Plasma on the Structure of Collisionless Thin Current Sheets. Cosmic Research, 2002, 40, 357-366.	0.2	15
76	Neutrino spin-flavor conversions and emission from the sun with random magnetic field. Nuclear Physics, Section B, Proceedings Supplements, 2000, 81, 124-129.	0.5	0
77	Resonant scattering of electromagnetic waves by a lossy periodic dielectric waveguide. Mathematical and Computer Modelling, 2000, 32, 1059-1070.	2.0	1
78	Neutrino conversions in random magnetic fields and from the Sun. Physical Review D, 1999, 59, .	1.6	8