

Victor Ilgisonis

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Low-frequency zonal flow eigen-structures in tokamak plasmas. Nuclear Fusion, 2022, 62, 066002.	3.5	0
2	Generation of Plasma Bunches under Conditions of Gyromagnetic Autoresonance in a Long Magnetic Mirror Machine: Computational Experiment. Plasma Physics Reports, 2020, 46, 756-764.	0.9	3
3	Drift Motion of Charged Particles in Inhomogeneous Magnetic and Strong Electric Fields. Plasma Physics Reports, 2020, 46, 724-731.	0.9	1
4	Large-scale azimuthal structures in Hall-type plasma discharges. Physics of Plasmas, 2019, 26, 090701.	1.9	4
5	Discharge Oscillations in Morozov's Stationary Plasma Thruster as a Manifestation of Large-Scale Modes of Gradient Drift Instability. Plasma Physics Reports, 2019, 45, 1-10.	0.9	7
6	Equations of Plasma Equilibrium in a Magnetic Field with Three-Dimensional Magnetic Surfaces. Plasma Physics Reports, 2019, 45, 1093-1098.	0.9	0
7	Gradient-drift instability applied to Hall thrusters. Plasma Sources Science and Technology, 2019, 28, 015002.	3.1	15
8	Marginal stability, characteristic frequencies, and growth rates of gradient drift modes in partially magnetized plasmas with finite electron temperature. Physics of Plasmas, 2018, 25, .	1.9	11
9	Effects of finite electron temperature on gradient drift instabilities in partially magnetized plasmas. Physics of Plasmas, 2018, 25, .	1.9	23
10	Geodesic acoustic modes in noncircular cross section tokamaks. Plasma Physics Reports, 2017, 43, 271-279.	0.9	5
11	Gyromagnetic autoresonance plasma bunches in a magnetic mirror. Physics of Plasmas, 2017, 24, .	1.9	13
12	In memory of Spartak Timofeevich Belyaev. Physics-Uspexhi, 2017, 60, 327-329.	2.2	0
13	On the Toroidal Surfaces of Revolution with Constant Mean Curvatures. Physics of Atomic Nuclei, 2017, 80, 1307-1312.	0.4	0
14	Nonlinear excitation of long-wavelength modes in Hall plasmas. Physics of Plasmas, 2016, 23, .	1.9	9
15	MHD-model for low-frequency waves in a tokamak with toroidal plasma rotation and problem of existence of global geodesic acoustic modes. Plasma Physics Reports, 2015, 41, 975-982.	0.9	9
16	Ion sound instability driven by the ion flows. Physics of Plasmas, 2015, 22, 052113.	1.9	15
17	Analytical solutions for global geodesic acoustic modes in tokamak plasmas. Plasma Physics Reports, 2014, 40, 843-854.	0.9	13
18	Global geodesic acoustic mode in a tokamak with positive magnetic shear and a monotonic temperature profile. Plasma Physics and Controlled Fusion, 2014, 56, 035001.	2.1	18

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19	Passing particle toroidal precession induced by electric field in a tokamak. <i>Physics of Plasmas</i> , 2013, 20, 122502.	1.9	2
20	Response to "Comment on "Continuum modes in rotating plasmas: General equations and continuous spectra for large aspect ratio tokamaks" [Phys. Plasmas 19, 064701 (2012)]. <i>Physics of Plasmas</i> , 2012, 19, 064702.	1.9	0
21	Third adiabatic invariant and the collisionless distribution function of particles in a tokamak. <i>JETP Letters</i> , 2012, 94, 684-688.	1.4	1
22	Radial electric field and rotation of the ensemble of plasma particles in tokamak. <i>Plasma Physics Reports</i> , 2012, 38, 279-289.	0.9	2
23	Geodesic acoustic modes and zonal flows in rotating large-aspect-ratio tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 065008.	2.1	15
24	Continuum modes in rotating plasmas: General equations and continuous spectra for large aspect ratio tokamaks. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	25
25	Equilibrium magnetohydrodynamic flows of liquid metals in magnetorotational instability experiments. <i>Journal of Fluid Mechanics</i> , 2010, 644, 257-280.	3.4	22
26	What physics does affect the MRI threshold. , 2010, , .		1
27	On the influence of dissipative effects on instabilities of differentially-rotating plasmas. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 110, 689-693.	0.9	5
28	Magnetic field in a finite toroidal domain. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 110, 890-900.	0.9	5
29	Collisionless current generation in the center of the tokamak plasma by an isotropic source of \pm -particles. <i>Plasma Physics Reports</i> , 2010, 36, 1-14.	0.9	7
30	Geodesic acoustic modes and zonal flows in toroidally rotating tokamak plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4872-4875.	2.1	25
31	Vitalii Dmitrievich Shafranov (on his 80th birthday). <i>Physics-Uspexhi</i> , 2010, 53, 101-102.	2.2	0
32	Negative energy waves and MHD stability of rotating plasmas. <i>Nuclear Fusion</i> , 2009, 49, 035008.	3.5	12
33	B B Kadomtsev's classical results and the plasma rotation in modern tokamaks. <i>Physics-Uspexhi</i> , 2009, 52, 746-754.	2.2	8
34	Magnetorotational instability in a nonuniform magnetic field. <i>JETP Letters</i> , 2008, 86, 705-708.	1.4	5
35	Energy of eigenmodes in magnetohydrodynamic flows of ideal fluids. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	20
36	Magnetorotational instability in electrically driven flow of liquid metal: Spectral analysis of global modes. <i>Physics of Fluids</i> , 2006, 18, 124107.	4.0	29

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37	Formal stability of three-dimensional flows of an ideal conducting fluid. JETP Letters, 2005, 82, 570-574.	1.4	5
38	Bifurcation of the equilibrium of a current-carrying plasma column. Plasma Physics Reports, 2004, 30, 988-994.	0.9	5
39	Comments on the equilibrium of a rotating plasma. Plasma Physics Reports, 2003, 29, 276-278.	0.9	0
40	Transport barrier as a bifurcation of the equilibrium of a tokamak plasma. Plasma Physics Reports, 2002, 28, 83-93.	0.9	6
41	On the boundary of an equilibrium plasma near the magnetic separatrix in a tokamak. Plasma Physics Reports, 2002, 28, 779-786.	0.9	0
42	Equilibrium of flowing plasma in tokamak in the frame of Hall magnetohydrodynamics. Plasma Physics and Controlled Fusion, 2001, 43, 1255-1271.	2.1	12
43	Variational approaches to the problems of plasma stability and of nonlinear plasma dynamics. JETP Letters, 2000, 72, 530-540.	1.4	8
44	Low- β equilibrium and stability for anisotropic pressure closed field line plasma confinement systems. Physics of Plasmas, 1996, 3, 536-542.	1.9	1
45	Anisotropic plasma with flows in tokamak: Steady state and stability. Physics of Plasmas, 1996, 3, 4577-4582.	1.9	20
46	Toroidal plasma β -finite Larmor radius limit in a toroidally linked mirror system. Physics of Plasmas, 1994, 1, 3622-3634.	1.9	0
47	Finite beta plasma equilibrium in toroidally linked mirrors. Physics of Plasmas, 1994, 1, 881-890.	1.9	2
48	Guiding-center theory for three-dimensional collisionless finite Larmor radius plasmas. Physics of Fluids B, 1993, 5, 2387-2397.	1.7	11