

Victor Kuznetsov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-temperature Knudsen thermionic converter with multicavity emitter. Journal of Applied Physics, 2022, 132, .	2.5	3
2	Detection of long-lived ions in a plasma diode. Physics of Plasmas, 2021, 28, .	1.9	1
3	Stability features of steady-state solutions for a diode with electron and ion counter-streams. Journal of Physics: Conference Series, 2021, 2103, 012204.	0.4	0
4	Stability theory of plasma diodes with counterstreaming electron and ion flows. Physics of Plasmas, 2021, 28, 122108.	1.9	0
5	Occurrence of oscillatory modes in a diode with counter-streaming electron and ion flows. Physics of Plasmas, 2020, 27, .	1.9	5
6	The effect of electron collisions on the relativistic Pierce diode in the case of reflection of electrons from a potential barrier. Physics of Plasmas, 2020, 27, 103502.	1.9	1
7	Stationary Langmuir structures in a relativistic current carrying cold plasma. Physics of Plasmas, 2020, 27, 022118.	1.9	0
8	Nonlinear structure formation of electron acoustic waves in plasmas. Physica Scripta, 2020, 95, 105603.	2.5	4
9	Steady-states of relativistic Pierce diode in a regime with electron reflection from a potential barrier. Journal of Physics: Conference Series, 2020, 1697, 012208.	0.4	0
10	Analysis of conditions for microwave generation by a Bursian diode. Journal of Applied Physics, 2019, 125, 183301.	2.5	1
11	Effect of electron collisions on stationary solutions of plasma diodes in the case with electron reflection. Physics of Plasmas, 2019, 26, 123513.	1.9	2
12	Stable and Unstable Regimes of Plasma Diodes in the Presence of Electron Collisions. Technical Physics, 2019, 64, 1452-1461.	0.7	3
13	Phase-mixing of large amplitude electron oscillations in a cold inhomogeneous plasma. Physics of Plasmas, 2018, 25, .	1.9	12
14	Nonlinear coupling of Langmuir and electron acoustic waves in a viscous plasma. Physics of Plasmas, 2018, 25, .	1.9	3
15	Existence of electron acoustic solitary waves in relativistic limit. Physics of Plasmas, 2018, 25, 092101.	1.9	3
16	Relativistic electron plasma oscillations in an inhomogeneous ion background. Physica Scripta, 2018, 93, 065601.	2.5	5
17	Effects of collision on the time-independent states of a non-neutral plasma diode. Physics of Plasmas, 2018, 25, 083512.	1.9	4
18	On availability of the optimal regimes in a Knudsen Cs-Ba thermionic converter at high emitter temperatures. Journal of Applied Physics, 2018, 124, .	2.5	10

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19	Plasma wakefield excitation in a cold magnetized plasma for particle acceleration. Physics of Plasmas, 2017, 24, 052111.	1.9	3
20	Stability properties of the steady state solutions of a non-neutral plasma diode when there is a uniform magnetic field along transverse direction. Physics of Plasmas, 2017, 24, .	1.9	2
21	Effect of electron inertia on dispersive properties of Alfvén waves in cold plasmas. Physics of Plasmas, 2017, 24, 102307.	1.9	4
22	Observation of geodesic acoustic mode in SINP-tokamak and its behaviour with varying edge safety factor. Physics of Plasmas, 2017, 24, 112501.	1.9	2
23	Experimental observation of electron-acoustic wave propagation in laboratory plasma. Physics of Plasmas, 2017, 24, .	1.9	28
24	A study of stationary states of a plasma diode in the presence of a transverse magnetic field.. Journal of Physics: Conference Series, 2017, 929, 012108.	0.4	0
25	A study on the steady-state solutions of a relativistic Bursian diode in the presence of a transverse magnetic field. Physics of Plasmas, 2016, 23, 082110.	1.9	1
26	The phase mixing of an upper hybrid wave in a magnetized pair-ion plasma. Physica Scripta, 2016, 91, 065602.	2.5	4
27	Wave-breaking amplitudes of relativistic upper-hybrid oscillations in a cold magnetized plasma. Physics of Plasmas, 2016, 23, 064503.	1.9	15
28	Non-neutral plasma diode in the presence of a transverse magnetic field. Physics of Plasmas, 2016, 23, 062118.	1.9	4
29	Nonlinear coherent structures of Alfvén wave in a collisional plasma. Physics of Plasmas, 2016, 23, 072304.	1.9	4
30	Time-independent states of a non-neutral plasma diode when emitted electrons are partially turned around by a transverse magnetic field. Physics of Plasmas, 2016, 23, 103105.	1.9	4
31	Nonlinear coupling of acoustic and shear mode in a strongly coupled dusty plasma with a density dependent viscosity. Astrophysics and Space Science, 2016, 361, 1.	1.4	8
32	Steady states of a diode with counterstreaming electron and positron beams. Plasma Physics Reports, 2016, 42, 936-946.	0.9	10
33	Formation and evolution of vortices in a collisional strongly coupled dusty plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2531-2539.	2.1	5
34	Relativistic wave-breaking limit of electrostatic waves in cold electron-positron-ion plasmas. European Physical Journal D, 2016, 70, 1.	1.3	9
35	Shear flow driven instability in an incompressible dusty plasma with a density dependent viscosity. Indian Journal of Physics, 2016, 90, 717-724.	1.8	7
36	Regimes of plasma jet outflow of capillary discharge with evaporating walls. Technical Physics, 2015, 60, 1720-1724.	0.7	6

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37	Stability of an elliptical vortex in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	2
38	Ion acoustic shock wave in collisional equal mass plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	10
39	Coupling of dust acoustic and shear mode through velocity shear in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2015, 22, 073706.	1.9	12
40	Stability analysis of steady state solutions of Bursian diode in presence of transverse magnetic field. <i>Physics of Plasmas</i> , 2015, 22, 082103.	1.9	9
41	Nonlinear Alfvén wave dynamics in plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	4
42	A study on the steady-state solutions of a Bursian diode in the presence of transverse magnetic field, when the electrons of the injected beam are turned back partially or totally. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	4
43	Stability theory of Knudsen plasma diodes. <i>Plasma Physics Reports</i> , 2015, 41, 905-917.	0.9	9
44	Stabilization of Rayleigh-Taylor instability in a non-Newtonian incompressible complex plasma. <i>Physics of Plasmas</i> , 2015, 22, 033702.	1.9	16
45	Phase-mixing of ion plasma modes in pair-ion plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	12
46	The transverse magnetic field effect on steady-state solutions of the Bursian diode. <i>Physics of Plasmas</i> , 2015, 22, 042110.	1.9	10
47	The Q,G-method in physics of collisionless plasma. <i>Plasma Physics Reports</i> , 2015, 41, 240-253.	0.9	5
48	Dynamics of the longitudinal and transverse modes in presence of equilibrium shear flow in a strongly coupled dusty plasma. , 2014, , .		5
49	Rayleigh-Taylor instability in an equal mass plasma. <i>Physics of Plasmas</i> , 2014, 21, 092120.	1.9	7
50	Velocity shear effect on the longitudinal wave in a strongly coupled dusty plasma. <i>Astrophysics and Space Science</i> , 2014, 349, 789-798.	1.4	13
51	Nonstationary magnetosonic wave dynamics in plasmas exhibiting collapse. <i>Physical Review E</i> , 2013, 88, 023102.	2.1	8
52	Nonlinear electron oscillations in a warm plasma. <i>Physics of Plasmas</i> , 2013, 20, 122303.	1.9	2
53	On the self-consistent states of a planar vacuum diode with an electron beam. <i>Technical Physics</i> , 2013, 58, 1705-1714.	0.7	18
54	Selective Excitation of Low Frequency Drift Waves by Density Modulation and Parametric Excitation of Higher Frequency Mode. <i>Physical Review Letters</i> , 2013, 111, 115004.	7.8	9

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55	Phase-mixing of electrostatic modes in a cold magnetized electron-positron plasma. <i>Physics of Plasmas</i> , 2013, 20, 082302.	1.9	10
56	Phase mixing of upper hybrid oscillations in a cold inhomogeneous plasma placed in an inhomogeneous magnetic field. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	10
57	Wave-Breaking Phenomena in a Relativistic Magnetized Plasma. <i>Physical Review Letters</i> , 2013, 110, 215002.	7.8	35
58	Kelvin-Helmholtz instability in non-Newtonian complex plasma. <i>Physics of Plasmas</i> , 2013, 20, 073702.	1.9	9
59	The electron geodesic acoustic mode. <i>Physics of Plasmas</i> , 2012, 19, 092113.	1.9	2
60	Nonlinear shear wave in a non Newtonian visco-elastic medium. <i>Physics of Plasmas</i> , 2012, 19, 062301.	1.9	2
61	Shear flow instability in a strongly coupled dusty plasma. <i>Physical Review E</i> , 2012, 85, 066408.	2.1	14
62	Breaking of upper hybrid oscillations in the presence of an inhomogeneous magnetic field. <i>Physical Review E</i> , 2012, 86, 016408.	2.1	26
63	Linear and nonlinear electrostatic modes in a strongly coupled quantum plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	30
64	Shear waves in an inhomogeneous strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2011, 18, 092114.	1.9	6
65	Relativistic effects on nonlinear lower hybrid oscillations in cold plasma. <i>Journal of Mathematical Physics</i> , 2011, 52, .	1.1	10
66	Nonlinear interaction of quantum electron plasma waves with quantum electron acoustic waves in plasmas. <i>Physical Review E</i> , 2011, 83, 016404.	2.1	11
67	Relativistic Bursian diode equilibria. <i>Physics of Plasmas</i> , 2011, 18, 033502.	1.9	11
68	Exact Time-Dependent Nonlinear Dispersive Wave Solutions in Compressible Magnetized Plasmas Exhibiting Collapse. <i>Physical Review Letters</i> , 2011, 106, 145003.	7.8	13
69	Jeans instability in a viscoelastic fluid. <i>Physics of Plasmas</i> , 2011, 18, 012901.	1.9	35
70	Nonlinear behavior of electron acoustic waves in an un-magnetized plasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	28
71	Theory and application of plasma diode equilibria with beam electrons and a fixed particle background of negative charge. <i>EPJ Applied Physics</i> , 2010, 49, 11002.	0.7	3
72	Time-dependent regimes of a Bursian diode I: Stability of steady solutions. <i>Plasma Physics Reports</i> , 2010, 36, 226-235.	0.9	25

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73	Time-dependent regimes of a Bursian diode II: Characteristic features of nonlinear oscillations. Plasma Physics Reports, 2010, 36, 236-249.	0.9	11
74	Shear wave vortex solution in a strongly coupled dusty plasma. Physics of Plasmas, 2010, 17, 053704.	1.9	16
75	Viscosity gradient-driven instability of \tilde{e} -shear mode TM in a strongly coupled plasma. New Journal of Physics, 2010, 12, 123031.	2.9	16
76	Geodesic Acoustic Mode in Toroidal Plasma. , 2010, , .		1
77	Nonlocal analysis of the excitation of the geodesic acoustic mode by drift waves. Physics of Plasmas, 2009, 16, 052514.	1.9	12
78	Nonlinear interaction of electron plasma waves with electron acoustic waves in plasmas. Physics of Plasmas, 2009, 16, .	1.9	21
79	Geodesic acoustic modes excited by finite beta drift waves. Physics of Plasmas, 2008, 15, .	1.9	23
80	Collisionless self-consistent trapping of electrons into a nonstationary potential well: Dynamics of trapped electrons. Technical Physics, 2006, 51, 1257-1268.	0.7	6
81	The Pierce-diode approximation to the single-emitter plasma diode. Physics of Plasmas, 2006, 13, 113506.	1.9	17
82	Switching of nonneutral plasma diodes. II. Numerical results. Physics of Plasmas, 2004, 11, 3224-3233.	1.9	20
83	Switching of nonneutral plasma diodes. I. Analytic theory. Physics of Plasmas, 2004, 11, 3212-3223.	1.9	27
84	Switching as a dynamical process in electron diodes. Journal of Applied Physics, 2003, 93, 1246-1256.	2.5	13
85	The true nature of space-charge-limited currents in electron vacuum diodes: A Lagrangian revision with corrections. Physics of Plasmas, 2001, 8, 3788-3798.	1.9	80
86	Rayleigh TM -Taylor modes in the presence of velocity shear and vortices. Journal of Plasma Physics, 1998, 59, 737-750.	2.1	8
87	Velocity shear effect on Rayleigh TM -Taylor vortices in nonuniform magnetized plasmas. Physics of Plasmas, 1996, 3, 3599-3603.	1.9	9
88	Interaction of rapid magnetic fields with plasmas and implications to pulsed-power systems. , 0, , .		1