

Victor Kuznetsov

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The true nature of space-charge-limited currents in electron vacuum diodes: A Lagrangian revision with corrections. <i>Physics of Plasmas</i> , 2001, 8, 3788-3798.	1.9	80
2	Jeans instability in a viscoelastic fluid. <i>Physics of Plasmas</i> , 2011, 18, 012901.	1.9	35
3	Wave-Breaking Phenomena in a Relativistic Magnetized Plasma. <i>Physical Review Letters</i> , 2013, 110, 215002.	7.8	35
4	Linear and nonlinear electrostatic modes in a strongly coupled quantum plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	30
5	Nonlinear behavior of electron acoustic waves in an un-magnetized plasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	28
6	Experimental observation of electron-acoustic wave propagation in laboratory plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	28
7	Switching of nonneutral plasma diodes. I. Analytic theory. <i>Physics of Plasmas</i> , 2004, 11, 3212-3223.	1.9	27
8	Breaking of upper hybrid oscillations in the presence of an inhomogeneous magnetic field. <i>Physical Review E</i> , 2012, 86, 016408.	2.1	26
9	Time-dependent regimes of a Bursian diode I: Stability of steady solutions. <i>Plasma Physics Reports</i> , 2010, 36, 226-235.	0.9	25
10	Geodesic acoustic modes excited by finite beta drift waves. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	23
11	Nonlinear interaction of electron plasma waves with electron acoustic waves in plasmas. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	21
12	Switching of nonneutral plasma diodes. II. Numerical results. <i>Physics of Plasmas</i> , 2004, 11, 3224-3233.	1.9	20
13	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
14	The Pierce-diode approximation to the single-emitter plasma diode. <i>Physics of Plasmas</i> , 2006, 13, 113506.	1.9	17
15	Shear wave vortex solution in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2010, 17, 053704.	1.9	16
16	Viscosity gradient-driven instability of \tilde{a} shear mode $\hat{\epsilon}^{\text{TM}}$ in a strongly coupled plasma. <i>New Journal of Physics</i> , 2010, 12, 123031.	2.9	16
17	Stabilization of Rayleigh-Taylor instability in a non-Newtonian incompressible complex plasma. <i>Physics of Plasmas</i> , 2015, 22, 033702.	1.9	16
18	Wave-breaking amplitudes of relativistic upper-hybrid oscillations in a cold magnetized plasma. <i>Physics of Plasmas</i> , 2016, 23, 064503.	1.9	15

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19	Shear flow instability in a strongly coupled dusty plasma. <i>Physical Review E</i> , 2012, 85, 066408.	2.1	14
20	Switching as a dynamical process in electron diodes. <i>Journal of Applied Physics</i> , 2003, 93, 1246-1256.	2.5	13
21	Exact Time-Dependent Nonlinear Dispersive Wave Solutions in Compressible Magnetized Plasmas Exhibiting Collapse. <i>Physical Review Letters</i> , 2011, 106, 145003.	7.8	13
22	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
23	Nonlocal analysis of the excitation of the geodesic acoustic mode by drift waves. <i>Physics of Plasmas</i> , 2009, 16, 052514.	1.9	12
24	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
25	Phase-mixing of ion plasma modes in pair-ion plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	12
26	Phase-mixing of large amplitude electron oscillations in a cold inhomogeneous plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	12
27	Time-dependent regimes of a Bursian diode II: Characteristic features of nonlinear oscillations. <i>Plasma Physics Reports</i> , 2010, 36, 236-249.	0.9	11
28	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
29	Relativistic Bursian diode equilibria. <i>Physics of Plasmas</i> , 2011, 18, 033502.	1.9	11
30	Relativistic effects on nonlinear lower hybrid oscillations in cold plasma. <i>Journal of Mathematical Physics</i> , 2011, 52, .	1.1	10
31	Phase-mixing of electrostatic modes in a cold magnetized electron-positron plasma. <i>Physics of Plasmas</i> , 2013, 20, 082302.	1.9	10
32	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
33	Ion acoustic shock wave in collisional equal mass plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	10
34	The transverse magnetic field effect on steady-state solutions of the Bursian diode. <i>Physics of Plasmas</i> , 2015, 22, 042110.	1.9	10
35	Steady states of a diode with counterstreaming electron and positron beams. <i>Plasma Physics Reports</i> , 2016, 42, 936-946.	0.9	10
36	On availability of the optimal regimes in a Knudsen Cs-Ba thermionic converter at high emitter temperatures. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	10

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37	Velocity shear effect on Rayleigh–Taylor vortices in nonuniform magnetized plasmas. <i>Physics of Plasmas</i> , 1996, 3, 3599-3603.	1.9	9
38	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
39	Kelvin-Helmholtz instability in non-Newtonian complex plasma. <i>Physics of Plasmas</i> , 2013, 20, 073702.	1.9	9
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	Stability theory of Knudsen plasma diodes. <i>Plasma Physics Reports</i> , 2015, 41, 905-917.	0.9	9
42	Relativistic wave-breaking limit of electrostatic waves in cold electron-positron-ion plasmas. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	9
43	Rayleigh–Taylor modes in the presence of velocity shear and vortices. <i>Journal of Plasma Physics</i> , 1998, 59, 737-750.	2.1	8
44	Nonstationary magnetosonic wave dynamics in plasmas exhibiting collapse. <i>Physical Review E</i> , 2013, 88, 023102.	2.1	8
45	Nonlinear coupling of acoustic and shear mode in a strongly coupled dusty plasma with a density dependent viscosity. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	8
46	Rayleigh-Taylor instability in an equal mass plasma. <i>Physics of Plasmas</i> , 2014, 21, 092120.	1.9	7
47	Shear flow driven instability in an incompressible dusty plasma with a density dependent viscosity. <i>Indian Journal of Physics</i> , 2016, 90, 717-724.	1.8	7
48	Collisionless self-consistent trapping of electrons into a nonstationary potential well: Dynamics of trapped electrons. <i>Technical Physics</i> , 2006, 51, 1257-1268.	0.7	6
49	Shear waves in an inhomogeneous strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2011, 18, 092114.	1.9	6
50	Regimes of plasma jet outflow of capillary discharge with evaporating walls. <i>Technical Physics</i> , 2015, 60, 1720-1724.	0.7	6
51	Dynamics of the longitudinal and transverse modes in presence of equilibrium shear flow in a strongly coupled dusty plasma. , 2014, , .		5
52	The Q,G-method in physics of collisionless plasma. <i>Plasma Physics Reports</i> , 2015, 41, 240-253.	0.9	5
53	Formation and evolution of vortices in a collisional strongly coupled dusty plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2531-2539.	2.1	5
54	Relativistic electron plasma oscillations in an inhomogeneous ion background. <i>Physica Scripta</i> , 2018, 93, 065601.	2.5	5

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55	Occurrence of oscillatory modes in a diode with counter-streaming electron and ion flows. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
56	Nonlinear Alfvén wave dynamics in plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	4
57	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
58	The phase mixing of an upper hybrid wave in a magnetized pair-ion plasma. <i>Physica Scripta</i> , 2016, 91, 065602.	2.5	4
59	Non-neutral plasma diode in the presence of a transverse magnetic field. <i>Physics of Plasmas</i> , 2016, 23, 062118.	1.9	4
60	Nonlinear coherent structures of Alfvén wave in a collisional plasma. <i>Physics of Plasmas</i> , 2016, 23, 072304.	1.9	4
61	Time-independent states of a non-neutral plasma diode when emitted electrons are partially turned around by a transverse magnetic field. <i>Physics of Plasmas</i> , 2016, 23, 103105.	1.9	4
62	Effect of electron inertia on dispersive properties of Alfvén waves in cold plasmas. <i>Physics of Plasmas</i> , 2017, 24, 102307.	1.9	4
63	Effects of collision on the time-independent states of a non-neutral plasma diode. <i>Physics of Plasmas</i> , 2018, 25, 083512.	1.9	4
64	Nonlinear structure formation of electron acoustic waves in plasmas. <i>Physica Scripta</i> , 2020, 95, 105603.	2.5	4
65	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
66	Plasma wakefield excitation in a cold magnetized plasma for particle acceleration. <i>Physics of Plasmas</i> , 2017, 24, 052111.	1.9	3
67	Nonlinear coupling of Langmuir and electron acoustic waves in a viscous plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	3
68	Existence of electron acoustic solitary waves in relativistic limit. <i>Physics of Plasmas</i> , 2018, 25, 092101.	1.9	3
69	Stable and Unstable Regimes of Plasma Diodes in the Presence of Electron Collisions. <i>Technical Physics</i> , 2019, 64, 1452-1461.	0.7	3
70	High-temperature Knudsen thermionic converter with multicavity emitter. <i>Journal of Applied Physics</i> , 2022, 132, .	2.5	3
71	The electron geodesic acoustic mode. <i>Physics of Plasmas</i> , 2012, 19, 092113.	1.9	2
72	Nonlinear shear wave in a non Newtonian visco-elastic medium. <i>Physics of Plasmas</i> , 2012, 19, 062301.	1.9	2

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73	Nonlinear electron oscillations in a warm plasma. <i>Physics of Plasmas</i> , 2013, 20, 122303.	1.9	2
74	Stability of an elliptical vortex in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	2
75	Stability properties of the steady state solutions of a non-neutral plasma diode when there is a uniform magnetic field along transverse direction. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	2
76	Observation of geodesic acoustic mode in SINP-tokamak and its behaviour with varying edge safety factor. <i>Physics of Plasmas</i> , 2017, 24, 112501.	1.9	2
77	Effect of electron collisions on stationary solutions of plasma diodes in the case with electron reflection. <i>Physics of Plasmas</i> , 2019, 26, 123513.	1.9	2
78	Interaction of rapid magnetic fields with plasmas and implications to pulsed-power systems. , 0, , .		1
79	Geodesic Acoustic Mode in Toroidal Plasma. , 2010, , .		1
80	A study on the steady-state solutions of a relativistic Bursian diode in the presence of a transverse magnetic field. <i>Physics of Plasmas</i> , 2016, 23, 082110.	1.9	1
81	Analysis of conditions for microwave generation by a Bursian diode. <i>Journal of Applied Physics</i> , 2019, 125, 183301.	2.5	1
82	The effect of electron collisions on the relativistic Pierce diode in the case of reflection of electrons from a potential barrier. <i>Physics of Plasmas</i> , 2020, 27, 103502.	1.9	1
83	Detection of long-lived ions in a plasma diode. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	1
84	A study of stationary states of a plasma diode in the presence of a transverse magnetic field.. <i>Journal of Physics: Conference Series</i> , 2017, 929, 012108.	0.4	0
85	Stationary Langmuir structures in a relativistic current carrying cold plasma. <i>Physics of Plasmas</i> , 2020, 27, 022118.	1.9	0
86	Steady-states of relativistic Pierce diode in a regime with electron reflection from a potential barrier. <i>Journal of Physics: Conference Series</i> , 2020, 1697, 012208.	0.4	0
87	Stability features of steady-state solutions for a diode with electron and ion counter-streams. <i>Journal of Physics: Conference Series</i> , 2021, 2103, 012204.	0.4	0
88	Stability theory of plasma diodes with counterstreaming electron and ion flows. <i>Physics of Plasmas</i> , 2021, 28, 122108.	1.9	0