

Vladimir Yu Nosenko

List of Publications by Year in descending order

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81
papers

2,611
citations

172457

29
h-index

189892

50
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all docs

81
docs citations

81
times ranked

706
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear Flows and Shear Viscosity in a Two-Dimensional Yukawa System (Dusty Plasma). Physical Review Letters, 2004, 93, 155004.	7.8	215
2	Radiation pressure and gas drag forces on a melamine-formaldehyde microsphere in a dusty plasma. Physics of Plasmas, 2003, 10, 9-20.	1.9	192
3	Direct Observation of Mode-Coupling Instability in Two-Dimensional Plasma Crystals. Physical Review Letters, 2010, 104, 195001.	7.8	143
4	Statistical Mechanics where Newton's Third Law is Broken. Physical Review X, 2015, 5, .	8.9	115
5	2D Melting of Plasma Crystals: Equilibrium and Nonequilibrium Regimes. Physical Review Letters, 2009, 103, 015001.	7.8	110
6	Heat Transport in a Two-Dimensional Complex (Dusty) Plasma at Melting Conditions. Physical Review Letters, 2008, 100, 025003.	7.8	108
7	Laser method of heating monolayer dusty plasmas. Physics of Plasmas, 2006, 13, 032106.	1.9	104
8	Plasmakristall-4: New complex (dusty) plasma laboratory on board the International Space Station. Review of Scientific Instruments, 2016, 87, 093505.	1.3	95
9	Supersonic Dislocations Observed in a Plasma Crystal. Physical Review Letters, 2007, 99, 025002.	7.8	92
10	Observation of Shear-Wave Mach Cones in a 2D Dusty-Plasma Crystal. Physical Review Letters, 2002, 88, 135001.	7.8	90
11	Wave mode coupling due to plasma wakes in two-dimensional plasma crystals: In-depth view. Physics of Plasmas, 2011, 18, .	1.9	73
12	Cutoff Wave Number for Shear Waves in a Two-Dimensional Yukawa System (Dusty Plasma). Physical Review Letters, 2006, 97, 115001.	7.8	62
13	Compressional and shear wakes in a two-dimensional dusty plasma crystal. Physical Review E, 2003, 68, 056409.	2.1	60
14	Nonlinear Compressional Pulses in a 2D Crystallized Dusty Plasma. Physical Review Letters, 2002, 88, 215002.	7.8	56
15	Experimental study of nonlinear solitary waves in two-dimensional dusty plasma. Physics of Plasmas, 2008, 15, .	1.9	45
16	Microstructure of a Liquid Two-Dimensional Dusty Plasma under Shear. Physical Review Letters, 2012, 108, 135005.	7.8	44
17	Acceleration and orbits of charged particles beneath a monolayer plasma crystal. Physics of Plasmas, 2002, 9, 4465-4472.	1.9	42
18	First Direct Measurement of Optical Phonons in 2D Plasma Crystals. Physical Review Letters, 2009, 103, 215001.	7.8	42

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19	Nonlinear Interaction of Compressional Waves in a 2D Dusty Plasma Crystal. <i>Physical Review Letters</i> , 2004, 92, 085001.	7.8	41
20	Nonlinear compressional waves in a two-dimensional Yukawa lattice. <i>Physical Review E</i> , 2003, 68, 046402.	2.1	38
21	Measurements of the power spectrum and dispersion relation of self-excited dust acoustic waves. <i>Europhysics Letters</i> , 2009, 88, 65001.	2.0	37
22	Anisotropic shear melting and recrystallization of a two-dimensional complex plasma. <i>Physical Review E</i> , 2013, 87, 043115.	2.1	36
23	Laser-excited shear waves in solid and liquid two-dimensional dusty plasmas. <i>Physics of Plasmas</i> , 2006, 13, 042104.	1.9	35
24	Mach cones in a three-dimensional complex plasma. <i>Europhysics Letters</i> , 2009, 85, 45002.	2.0	33
25	Kinetics of the melting front in two-dimensional plasma crystals: Complementary analysis with the particle image and particle tracking velocimetries. <i>Physical Review E</i> , 2012, 86, 046401.	2.1	33
26	Active Janus particles in a complex plasma. <i>Physical Review Research</i> , 2020, 2, .	3.6	32
27	Rotating electric fields in complex (dusty) plasmas. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	31
28	Laser-induced rocket force on a microparticle in a complex (dusty) plasma. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	31
29	Direct Experimental Measurement of the Speed-Stress Relation for Dislocations in a Plasma Crystal. <i>Physical Review Letters</i> , 2011, 106, 155002.	7.8	31
30	Experiments and Molecular-Dynamics Simulation of Elastic Waves in a Plasma Crystal Radiated from a Small Dipole Source. <i>Physical Review Letters</i> , 2002, 89, 085004.	7.8	29
31	Measurement of the ion drag force in a collisionless plasma with strong ion-grain coupling. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	29
32	Effect of strong electrostatic interactions of microparticles on the dust acoustic waves. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	29
33	Full melting of a two-dimensional complex plasma crystal triggered by localized pulsed laser heating. <i>Physical Review E</i> , 2018, 97, 043206.	2.1	25
34	Stability and size of particle pairs in complex plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	24
35	Synchronization of particle motion induced by mode coupling in a two-dimensional plasma crystal. <i>Physical Review E</i> , 2014, 89, 053108.	2.1	24
36	Experimental studies of two-dimensional complex plasma crystals: waves and instabilities. <i>Physics-Usppekhi</i> , 2019, 62, 1000-1011.	2.2	24

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37	Nonlinear regime of the mode-coupling instability in 2D plasma crystals. <i>Europhysics Letters</i> , 2014, 106, 45001.	2.0	22
38	Interaction of two-dimensional plasma crystals with upstream charged particles. <i>Europhysics Letters</i> , 2012, 99, 55001.	2.0	21
39	Coupling of Noncrossing Wave Modes in a Two-Dimensional Plasma Crystal. <i>Physical Review Letters</i> , 2017, 119, 255001.	7.8	20
40	Waves and oscillations in plasma crystals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 533-543.	1.5	18
41	Bispectral analysis of nonlinear compressional waves in a two-dimensional dusty plasma crystal. <i>Physical Review E</i> , 2006, 73, 016401.	2.1	16
42	Three-dimensional structure of a string-fluid complex plasma. <i>Physical Review Research</i> , 2020, 2, .	3.6	16
43	Equilibrium and Non-Equilibrium Melting of Two-Dimensional Plasma Crystals. <i>Contributions To Plasma Physics</i> , 2015, 55, 35-57.	1.1	15
44	Photophoretic force on microparticles in complex plasmas. <i>New Journal of Physics</i> , 2017, 19, 073015.	2.9	14
45	Stability of two-dimensional complex plasma monolayers in asymmetric capacitively coupled radio-frequency discharges. <i>Physical Review E</i> , 2022, 105, 015210.	2.1	14
46	Effect of rotating electric field on 3D complex (dusty) plasma. <i>Physics of Plasmas</i> , 2011, 18, 063706.	1.9	12
47	Observation of particle pairing in a two-dimensional plasma crystal. <i>Physical Review E</i> , 2014, 89, 023103.	2.1	12
48	Plasma crystal dynamics measured with a three-dimensional plenoptic camera. <i>Review of Scientific Instruments</i> , 2016, 87, 033505.	1.3	12
49	Spontaneous formation and spin of particle pairs in a single-layer complex plasma crystal. <i>Europhysics Letters</i> , 2015, 112, 45003.	2.0	11
50	Shear flow in a three-dimensional complex plasma in microgravity conditions. <i>Physical Review Research</i> , 2020, 2, .	3.6	11
51	Improved theoretical approximation for the ion drag force in collisionless plasma with strong ion-grain coupling. <i>Physics of Plasmas</i> , 2009, 16, 044507.	1.9	10
52	String structures in driven 3D complex-plasma clusters. <i>Europhysics Letters</i> , 2012, 100, 35001.	2.0	10
53	Direct experimental observation of binary agglomerates in complex plasmas. <i>Applied Physics Letters</i> , 2012, 100, 264101.	3.3	10
54	Wake-Mediated Propulsion of an Upstream Particle in Two-Dimensional Plasma Crystals. <i>Physical Review Letters</i> , 2017, 118, 075002.	7.8	10

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55	Wave spectra of square-lattice domains in a quasi-two-dimensional binary complex plasma. <i>Physics of Plasmas</i> , 2019, 26, 013702.	1.9	10
56	Dislocation nucleation and motion observed in a plasma crystal. <i>Philosophical Magazine</i> , 2008, 88, 3747-3755.	1.6	9
57	Dynamics of Dislocations in a 2D Plasma Crystal. <i>Contributions To Plasma Physics</i> , 2009, 49, 191-198.	1.1	9
58	Spontaneous pairing and cooperative movements of micro-particles in a two dimensional plasma crystal. <i>Physics of Plasmas</i> , 2015, 22, 053703.	1.9	9
59	Nonlinear structures of strongly coupled complex plasmas in the proximity of a presheath/sheath edge. <i>New Journal of Physics</i> , 2010, 12, 073038.	2.9	8
60	Network analysis of three-dimensional complex plasma clusters in a rotating electric field. <i>Physical Review E</i> , 2014, 89, 023104.	2.1	8
61	New radio-frequency setup for studying large 2D complex plasma crystals. <i>AIP Advances</i> , 2018, 8, .	1.3	7
62	A full account of compressional wave in 2D strongly coupled complex (dusty) plasmas: Theory, experiment and numerical simulation. <i>Europhysics Letters</i> , 2011, 94, 65001.	2.0	5
63	Synchronization of particle motion in compressed two-dimensional plasma crystals. <i>Europhysics Letters</i> , 2015, 110, 65001.	2.0	5
64	Dynamics of spinning particle pairs in a single-layer complex plasma crystal. <i>Physical Review E</i> , 2017, 96, 011201.	2.1	5
65	Wave modes in shear-deformed two-dimensional plasma crystals. <i>Physical Review E</i> , 2015, 91, 063108.	2.1	4
66	Wake turbulence observed behind an upstream "extra" particle in a complex (dusty) plasma. <i>Europhysics Letters</i> , 2016, 114, 55002.	2.0	4
67	Forced mode coupling in 2D complex plasmas. <i>Europhysics Letters</i> , 2016, 115, 45002.	2.0	4
68	Mode-coupling instability in a single-layer complex plasma crystal: Strong damping regime. <i>Physics of Plasmas</i> , 2018, 25, 093702.	1.9	4
69	Collective effects in complex plasma. <i>Plasma Sources Science and Technology</i> , 2010, 19, 065026.	3.1	3
70	Quasi-two-dimensional complex plasma containing spherical particles and their binary agglomerates. <i>Physical Review E</i> , 2016, 93, 053202.	2.1	3
71	Single particle dynamics in a radio-frequency produced plasma sheath. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
72	Heat transport in a flowing complex plasma in microgravity conditions. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3

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73	Dust interferometers in plasmas. Physical Review E, 2016, 93, 031201.	2.1	2
74	Dynamical Phase Transition in Dust Crystals. AIP Conference Proceedings, 2002, , .	0.4	1
75	PREFACE: Dustyâ•Complex Plasmas: Basic and Interdisciplinary Research. , 2011, , .		1
76	Fluid Complex Plasmasâ”Studies at the Particle Level. AIP Conference Proceedings, 2008, , .	0.4	0
77	New mechanism of cluster rotation in complex (dusty) plasmas. , 2009, , .		0
78	Mode coupling due to ion wakes in 2D complex plasma crystals. , 2011, , .		0
79	Dust Acoustic Waves in Strongly Coupled Complex Plasmas. AIP Conference Proceedings, 2011, , .	0.4	0
80	String formation in 3D particle clusters in complex plasmas. , 2012, , .		0
81	Laser-stimulated melting of a two-dimensional complex plasma crystal. AIP Conference Proceedings, 2018, , .	0.4	0