

# 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  
g-index

81  
all docs

81  
docs citations

81  
times ranked

706  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Heat transport in a flowing complex plasma in microgravity conditions. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
3	Active Janus particles in a complex plasma. <i>Physical Review Research</i> , 2020, 2, .	3.6	32
4	Three-dimensional structure of a string-fluid complex plasma. <i>Physical Review Research</i> , 2020, 2, .	3.6	16
5	Shear flow in a three-dimensional complex plasma in microgravity conditions. <i>Physical Review Research</i> , 2020, 2, .	3.6	11
6	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
7	Experimental studies of two-dimensional complex plasma crystals: waves and instabilities. <i>Physics-Uspexhi</i> , 2019, 62, 1000-1011.	2.2	24
8	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
9	Laser-stimulated melting of a two-dimensional complex plasma crystal. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
10	Single particle dynamics in a radio-frequency produced plasma sheath. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
11	New radio-frequency setup for studying large 2D complex plasma crystals. <i>AIP Advances</i> , 2018, 8, .	1.3	7
12	Mode-coupling instability in a single-layer complex plasma crystal: Strong damping regime. <i>Physics of Plasmas</i> , 2018, 25, 093702.	1.9	4
13	Wake-Mediated Propulsion of an Upstream Particle in Two-Dimensional Plasma Crystals. <i>Physical Review Letters</i> , 2017, 118, 075002.	7.8	10
14	Photophoretic force on microparticles in complex plasmas. <i>New Journal of Physics</i> , 2017, 19, 073015.	2.9	14
15	Dynamics of spinning particle pairs in a single-layer complex plasma crystal. <i>Physical Review E</i> , 2017, 96, 011201.	2.1	5
16	Coupling of Noncrossing Wave Modes in a Two-Dimensional Plasma Crystal. <i>Physical Review Letters</i> , 2017, 119, 255001.	7.8	20
17	Wake turbulence observed behind an upstream "extra" particle in a complex (dusty) plasma. <i>Europhysics Letters</i> , 2016, 114, 55002.	2.0	4
18	Plasma crystal dynamics measured with a three-dimensional plenoptic camera. <i>Review of Scientific Instruments</i> , 2016, 87, 033505.	1.3	12

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19	Plasmakristall-4: New complex (dusty) plasma laboratory on board the International Space Station. Review of Scientific Instruments, 2016, 87, 093505.	1.3	95
20	Dust interferometers in plasmas. Physical Review E, 2016, 93, 031201.	2.1	2
21	Quasi-two-dimensional complex plasma containing spherical particles and their binary agglomerates. Physical Review E, 2016, 93, 053202.	2.1	3
22	Forced mode coupling in 2D complex plasmas. Europhysics Letters, 2016, 115, 45002.	2.0	4
23	Wave modes in shear-deformed two-dimensional plasma crystals. Physical Review E, 2015, 91, 063108.	2.1	4
24	Equilibrium and Non-Equilibrium Melting of Two-Dimensional Plasma Crystals. Contributions To Plasma Physics, 2015, 55, 35-57.	1.1	15
25	Statistical Mechanics where Newton's Third Law is Broken. Physical Review X, 2015, 5, .	8.9	115
26	Spontaneous formation and spin of particle pairs in a single-layer complex plasma crystal. Europhysics Letters, 2015, 112, 45003.	2.0	11
27	Synchronization of particle motion in compressed two-dimensional plasma crystals. Europhysics Letters, 2015, 110, 65001.	2.0	5
28	Spontaneous pairing and cooperative movements of micro-particles in a two dimensional plasma crystal. Physics of Plasmas, 2015, 22, 053703.	1.9	9
29	Stability and size of particle pairs in complex plasmas. Physics of Plasmas, 2014, 21, .	1.9	24
30	Nonlinear regime of the mode-coupling instability in 2D plasma crystals. Europhysics Letters, 2014, 106, 45001.	2.0	22
31	Observation of particle pairing in a two-dimensional plasma crystal. Physical Review E, 2014, 89, 023103.	2.1	12
32	Synchronization of particle motion induced by mode coupling in a two-dimensional plasma crystal. Physical Review E, 2014, 89, 053108.	2.1	24
33	Network analysis of three-dimensional complex plasma clusters in a rotating electric field. Physical Review E, 2014, 89, 023104.	2.1	8
34	Anisotropic shear melting and recrystallization of a two-dimensional complex plasma. Physical Review E, 2013, 87, 043115.	2.1	36
35	String formation in 3D particle clusters in complex plasmas. , 2012, , .		0
36	String structures in driven 3D complex-plasma clusters. Europhysics Letters, 2012, 100, 35001.	2.0	10

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37	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
38	Microstructure of a Liquid Two-Dimensional Dusty Plasma under Shear. <i>Physical Review Letters</i> , 2012, 108, 135005.	7.8	44
39	Interaction of two-dimensional plasma crystals with upstream charged particles. <i>Europhysics Letters</i> , 2012, 99, 55001.	2.0	21
40	Direct experimental observation of binary agglomerates in complex plasmas. <i>Applied Physics Letters</i> , 2012, 100, 264101.	3.3	10
41	PREFACE: Dusty Complex Plasmas: Basic and Interdisciplinary Research. , 2011, , .		1
42	Mode coupling due to ion wakes in 2D complex plasma crystals. , 2011, , .		0
43	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
44	Effect of rotating electric field on 3D complex (dusty) plasma. <i>Physics of Plasmas</i> , 2011, 18, 063706.	1.9	12
45	Wave mode coupling due to plasma wakes in two-dimensional plasma crystals: In-depth view. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	73
46	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
47	Dust Acoustic Waves in Strongly Coupled Complex Plasmas. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	0
48	Collective effects in complex plasma. <i>Plasma Sources Science and Technology</i> , 2010, 19, 065026.	3.1	3
49	Laser-induced rocket force on a microparticle in a complex (dusty) plasma. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	31
50	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
51	Effect of strong electrostatic interactions of microparticles on the dust acoustic waves. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	29
52	Direct Observation of Mode-Coupling Instability in Two-Dimensional Plasma Crystals. <i>Physical Review Letters</i> , 2010, 104, 195001.	7.8	143
53	Rotating electric fields in complex (dusty) plasmas. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	31
54	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

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55	Dynamics of Dislocations in a 2D Plasma Crystal. Contributions To Plasma Physics, 2009, 49, 191-198.	1.1	9
56	Mach cones in a three-dimensional complex plasma. Europhysics Letters, 2009, 85, 45002.	2.0	33
57	First Direct Measurement of Optical Phonons in 2D Plasma Crystals. Physical Review Letters, 2009, 103, 215001.	7.8	42
58	Measurements of the power spectrum and dispersion relation of self-excited dust acoustic waves. Europhysics Letters, 2009, 88, 65001.	2.0	37
59	New mechanism of cluster rotation in complex (dusty) plasmas. , 2009, , .		0
60	2D Melting of Plasma Crystals: Equilibrium and Nonequilibrium Regimes. Physical Review Letters, 2009, 103, 015001.	7.8	110
61	Heat Transport in a Two-Dimensional Complex (Dusty) Plasma at Melting Conditions. Physical Review Letters, 2008, 100, 025003.	7.8	108
62	Experimental study of nonlinear solitary waves in two-dimensional dusty plasma. Physics of Plasmas, 2008, 15, .	1.9	45
63	Dislocation nucleation and motion observed in a plasma crystal. Philosophical Magazine, 2008, 88, 3747-3755.	1.6	9
64	Fluid Complex Plasmas—Studies at the Particle Level. AIP Conference Proceedings, 2008, , .	0.4	0
65	Measurement of the ion drag force in a collisionless plasma with strong ion-grain coupling. Physics of Plasmas, 2007, 14, .	1.9	29
66	Supersonic Dislocations Observed in a Plasma Crystal. Physical Review Letters, 2007, 99, 025002.	7.8	92
67	Laser-excited shear waves in solid and liquid two-dimensional dusty plasmas. Physics of Plasmas, 2006, 13, 042104.	1.9	35
68	Laser method of heating monolayer dusty plasmas. Physics of Plasmas, 2006, 13, 032106.	1.9	104
69	Cutoff Wave Number for Shear Waves in a Two-Dimensional Yukawa System (Dusty Plasma). Physical Review Letters, 2006, 97, 115001.	7.8	62
70	Bispectral analysis of nonlinear compressional waves in a two-dimensional dusty plasma crystal. Physical Review E, 2006, 73, 016401.	2.1	16
71	Shear Flows and Shear Viscosity in a Two-Dimensional Yukawa System (Dusty Plasma). Physical Review Letters, 2004, 93, 155004.	7.8	215
72	Nonlinear Interaction of Compressional Waves in a 2D Dusty Plasma Crystal. Physical Review Letters, 2004, 92, 085001.	7.8	41

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73	Radiation pressure and gas drag forces on a melamine-formaldehyde microsphere in a dusty plasma. <i>Physics of Plasmas</i> , 2003, 10, 9-20.	1.9	192
74	Waves and oscillations in plasma crystals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 533-543.	1.5	18
75	Nonlinear compressional waves in a two-dimensional Yukawa lattice. <i>Physical Review E</i> , 2003, 68, 046402.	2.1	38
76	Compressional and shear wakes in a two-dimensional dusty plasma crystal. <i>Physical Review E</i> , 2003, 68, 056409.	2.1	60
77	Nonlinear Compressional Pulses in a 2D Crystallized Dusty Plasma. <i>Physical Review Letters</i> , 2002, 88, 215002.	7.8	56
78	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
79	Observation of Shear-Wave Mach Cones in a 2D Dusty-Plasma Crystal. <i>Physical Review Letters</i> , 2002, 88, 135001.	7.8	90
80	Acceleration and orbits of charged particles beneath a monolayer plasma crystal. <i>Physics of Plasmas</i> , 2002, 9, 4465-4472.	1.9	42
81	Dynamical Phase Transition in Dust Crystals. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	1