

Vladimir Yu Nosenko

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

2,156
citations

27
h-index

45
g-index

81
ext. papers

2,400
ext. citations

3.3
avg, IF

4.73
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 73 | Shear flows and shear viscosity in a two-dimensional Yukawa system (dusty plasma). <i>Physical Review Letters</i> , 2004 , 93, 155004 | 7.4 | 186 |
| 72 | Radiation pressure and gas drag forces on a melamine-formaldehyde microsphere in a dusty plasma. <i>Physics of Plasmas</i> , 2003 , 10, 9-20 | 2.1 | 173 |
| 71 | Direct observation of mode-coupling instability in two-dimensional plasma crystals. <i>Physical Review Letters</i> , 2010 , 104, 195001 | 7.4 | 121 |
| 70 | 2D melting of plasma crystals: equilibrium and nonequilibrium regimes. <i>Physical Review Letters</i> , 2009 , 103, 015001 | 7.4 | 100 |
| 69 | Laser method of heating monolayer dusty plasmas. <i>Physics of Plasmas</i> , 2006 , 13, 032106 | 2.1 | 95 |
| 68 | Heat transport in a two-dimensional complex (dusty) plasma at melting conditions. <i>Physical Review Letters</i> , 2008 , 100, 025003 | 7.4 | 92 |
| 67 | Supersonic dislocations observed in a plasma crystal. <i>Physical Review Letters</i> , 2007 , 99, 025002 | 7.4 | 82 |
| 66 | Observation of shear-wave Mach cones in a 2D dusty-plasma crystal. <i>Physical Review Letters</i> , 2002 , 88, 135001 | 7.4 | 78 |
| 65 | Statistical Mechanics where Newton's Third Law is Broken. <i>Physical Review X</i> , 2015 , 5, | 9.1 | 70 |
| 64 | Plasmakristall-4: New complex (dusty) plasma laboratory on board the International Space Station. <i>Review of Scientific Instruments</i> , 2016 , 87, 093505 | 1.7 | 69 |
| 63 | Wave mode coupling due to plasma wakes in two-dimensional plasma crystals: In-depth view. <i>Physics of Plasmas</i> , 2011 , 18, 083707 | 2.1 | 61 |
| 62 | Cutoff wave number for shear waves in a two-dimensional Yukawa system (dusty plasma). <i>Physical Review Letters</i> , 2006 , 97, 115001 | 7.4 | 51 |
| 61 | Compressional and shear wakes in a two-dimensional dusty plasma crystal. <i>Physical Review E</i> , 2003 , 68, 056409 | 2.4 | 49 |
| 60 | Nonlinear compressional pulses in a 2D crystallized dusty plasma. <i>Physical Review Letters</i> , 2002 , 88, 215002 | 7.4 | 46 |
| 59 | Microstructure of a liquid two-dimensional dusty plasma under shear. <i>Physical Review Letters</i> , 2012 , 108, 135005 | 7.4 | 41 |
| 58 | Acceleration and orbits of charged particles beneath a monolayer plasma crystal. <i>Physics of Plasmas</i> , 2002 , 9, 4465-4472 | 2.1 | 41 |
| 57 | Experimental study of nonlinear solitary waves in two-dimensional dusty plasma. <i>Physics of Plasmas</i> , 2008 , 15, 073703 | 2.1 | 39 |

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| 56 | Measurements of the power spectrum and dispersion relation of self-excited dust acoustic waves. <i>Europhysics Letters</i> , 2009 , 88, 65001 | 1.6 | 36 |
| 55 | Anisotropic shear melting and recrystallization of a two-dimensional complex plasma. <i>Physical Review E</i> , 2013 , 87, 043115 | 2.4 | 34 |
| 54 | Nonlinear interaction of compressional waves in a 2D dusty plasma crystal. <i>Physical Review Letters</i> , 2004 , 92, 085001 | 7.4 | 34 |
| 53 | First direct measurement of optical phonons in 2D plasma crystals. <i>Physical Review Letters</i> , 2009 , 103, 215001 | 7.4 | 33 |
| 52 | Nonlinear compressional waves in a two-dimensional Yukawa lattice. <i>Physical Review E</i> , 2003 , 68, 046402 | 2.4 | 32 |
| 51 | Laser-excited shear waves in solid and liquid two-dimensional dusty plasmas. <i>Physics of Plasmas</i> , 2006 , 13, 042104 | 2.1 | 31 |
| 50 | Mach cones in a three-dimensional complex plasma. <i>Europhysics Letters</i> , 2009 , 85, 45002 | 1.6 | 29 |
| 49 | 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 | 2.4 | 28 |
| 48 | Laser-induced rocket force on a microparticle in a complex (dusty) plasma. <i>Physics of Plasmas</i> , 2010 , 17, 123705 | 2.1 | 27 |
| 47 | Effect of strong electrostatic interactions of microparticles on the dust acoustic waves. <i>Physics of Plasmas</i> , 2010 , 17, 103709 | 2.1 | 27 |
| 46 | Direct experimental measurement of the speed-stress relation for dislocations in a plasma crystal. <i>Physical Review Letters</i> , 2011 , 106, 155002 | 7.4 | 26 |
| 45 | Rotating electric fields in complex (dusty) plasmas. <i>Physics of Plasmas</i> , 2009 , 16, 083708 | 2.1 | 26 |
| 44 | Measurement of the ion drag force in a collisionless plasma with strong ion-grain coupling. <i>Physics of Plasmas</i> , 2007 , 14, 103702 | 2.1 | 26 |
| 43 | 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 | 7.4 | 26 |
| 42 | Synchronization of particle motion induced by mode coupling in a two-dimensional plasma crystal. <i>Physical Review E</i> , 2014 , 89, 053108 | 2.4 | 21 |
| 41 | Stability and size of particle pairs in complex plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 113701 | 2.1 | 20 |
| 40 | Full melting of a two-dimensional complex plasma crystal triggered by localized pulsed laser heating. <i>Physical Review E</i> , 2018 , 97, 043206 | 2.4 | 18 |
| 39 | Nonlinear regime of the mode-coupling instability in 2D plasma crystals. <i>Europhysics Letters</i> , 2014 , 106, 45001 | 1.6 | 18 |

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| 38 | Interaction of two-dimensional plasma crystals with upstream charged particles. <i>Europhysics Letters</i> , 2012 , 99, 55001 | 1.6 | 17 |
| 37 | Waves and oscillations in plasma crystals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 533-543 | 1.3 | 17 |
| 36 | Experimental studies of two-dimensional complex plasma crystals: waves and instabilities. <i>Physics-Uspexhi</i> , 2019 , 62, 1000-1011 | 2.8 | 17 |
| 35 | Coupling of Noncrossing Wave Modes in a Two-Dimensional Plasma Crystal. <i>Physical Review Letters</i> , 2017 , 119, 255001 | 7.4 | 14 |
| 34 | Equilibrium and Non-Equilibrium Melting of Two-Dimensional Plasma Crystals. <i>Contributions To Plasma Physics</i> , 2015 , 55, 35-57 | 1.4 | 14 |
| 33 | Bispectral analysis of nonlinear compressional waves in a two-dimensional dusty plasma crystal. <i>Physical Review E</i> , 2006 , 73, 016401 | 2.4 | 12 |
| 32 | Photophoretic force on microparticles in complex plasmas. <i>New Journal of Physics</i> , 2017 , 19, 073015 | 2.9 | 9 |
| 31 | String structures in driven 3D complex-plasma clusters. <i>Europhysics Letters</i> , 2012 , 100, 35001 | 1.6 | 9 |
| 30 | Effect of rotating electric field on 3D complex (dusty) plasma. <i>Physics of Plasmas</i> , 2011 , 18, 063706 | 2.1 | 9 |
| 29 | Dynamics of Dislocations in a 2D Plasma Crystal. <i>Contributions To Plasma Physics</i> , 2009 , 49, 191-198 | 1.4 | 9 |
| 28 | Dislocation nucleation and motion observed in a plasma crystal. <i>Philosophical Magazine</i> , 2008 , 88, 3747-3765 | 3.7 | 9 |
| 27 | Plasma crystal dynamics measured with a three-dimensional plenoptic camera. <i>Review of Scientific Instruments</i> , 2016 , 87, 033505 | 1.7 | 9 |
| 26 | Wake-Mediated Propulsion of an Upstream Particle in Two-Dimensional Plasma Crystals. <i>Physical Review Letters</i> , 2017 , 118, 075002 | 7.4 | 8 |
| 25 | Observation of particle pairing in a two-dimensional plasma crystal. <i>Physical Review E</i> , 2014 , 89, 023103 | 2.4 | 8 |
| 24 | Network analysis of three-dimensional complex plasma clusters in a rotating electric field. <i>Physical Review E</i> , 2014 , 89, 023104 | 2.4 | 8 |
| 23 | Direct experimental observation of binary agglomerates in complex plasmas. <i>Applied Physics Letters</i> , 2012 , 100, 264101 | 3.4 | 8 |
| 22 | 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 |
| 21 | Improved theoretical approximation for the ion drag force in collisionless plasma with strong ion-grain coupling. <i>Physics of Plasmas</i> , 2009 , 16, 044507 | 2.1 | 8 |

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| 20 | Active Janus particles in a complex plasma. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 8 |
| 19 | Spontaneous formation and spin of particle pairs in a single-layer complex plasma crystal. <i>Europhysics Letters</i> , 2015 , 112, 45003 | 1.6 | 7 |
| 18 | Three-dimensional structure of a string-fluid complex plasma. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 7 |
| 17 | Wave spectra of square-lattice domains in a quasi-two-dimensional binary complex plasma. <i>Physics of Plasmas</i> , 2019 , 26, 013702 | 2.1 | 6 |
| 16 | Shear flow in a three-dimensional complex plasma in microgravity conditions. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 6 |
| 15 | Synchronization of particle motion in compressed two-dimensional plasma crystals. <i>Europhysics Letters</i> , 2015 , 110, 65001 | 1.6 | 5 |
| 14 | Spontaneous pairing and cooperative movements of micro-particles in a two dimensional plasma crystal. <i>Physics of Plasmas</i> , 2015 , 22, 053703 | 2.1 | 5 |
| 13 | 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 | 1.6 | 5 |
| 12 | Forced mode coupling in 2D complex plasmas. <i>Europhysics Letters</i> , 2016 , 115, 45002 | 1.6 | 4 |
| 11 | Wave modes in shear-deformed two-dimensional plasma crystals. <i>Physical Review E</i> , 2015 , 91, 063108 | 2.4 | 4 |
| 10 | Single particle dynamics in a radio-frequency produced plasma sheath 2018 , | | 3 |
| 9 | Wake turbulence observed behind an upstream α -particle in a complex (dusty) plasma. <i>Europhysics Letters</i> , 2016 , 114, 55002 | 1.6 | 3 |
| 8 | New radio-frequency setup for studying large 2D complex plasma crystals. <i>AIP Advances</i> , 2018 , 8, 125303 | 3.5 | 3 |
| 7 | Mode-coupling instability in a single-layer complex plasma crystal: Strong damping regime. <i>Physics of Plasmas</i> , 2018 , 25, 093702 | 2.1 | 3 |
| 6 | Quasi-two-dimensional complex plasma containing spherical particles and their binary agglomerates. <i>Physical Review E</i> , 2016 , 93, 053202 | 2.4 | 2 |
| 5 | Dynamics of spinning particle pairs in a single-layer complex plasma crystal. <i>Physical Review E</i> , 2017 , 96, 011201 | 2.4 | 2 |
| 4 | Collective effects in complex plasma. <i>Plasma Sources Science and Technology</i> , 2010 , 19, 065026 | 3.5 | 2 |
| 3 | Dust interferometers in plasmas. <i>Physical Review E</i> , 2016 , 93, 031201 | 2.4 | 1 |

- 2 Stability of two-dimensional complex plasma monolayers in asymmetric capacitively coupled radio-frequency discharges.. *Physical Review E*, **2022**, 105, 015210 2.4 1
- 1 Heat transport in a flowing complex plasma in microgravity conditions. *Physics of Plasmas*, **2021**, 28, 113701 0