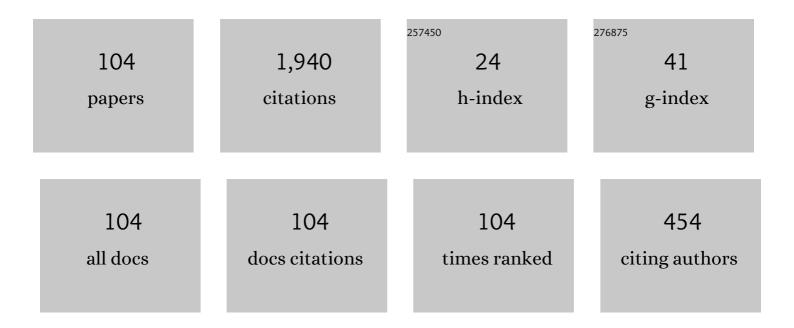
List of Publications by Year in descending order

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| #  | Article   | IF       | CITATIONS      |
|----|---|----------|----------------|
| 1  | Dusty plasma induced by solar radiation under microgravitational conditions: An experiment on board the Mir orbiting space station. Journal of Experimental and Theoretical Physics, 1998, 87, 1087-1097. | 0.9      | 183            |
| 2  | Charge-fluctuation-induced heating of dust particles in a plasma. Physical Review E, 1999, 60, 5959-5964.   | 2.1      | 123            |
| 3  | Scaling law for the fluid-solid phase transition in Yukawa systems (dusty plasmas). Journal of<br>Experimental and Theoretical Physics, 2000, 90, 287-289.  | 0.9      | 110            |
| 4  | Diffusion and dynamics of macro-particles in a complex plasma. Physics of Plasmas, 2002, 9, 835-840.  | 1.9      | 100            |
| 5  | Dynamical properties of random charge fluctuations in a dusty plasma with different charging mechanisms. Physical Review E, 1999, 59, 6017-6022.  | 2.1      | 89             |
| 6  | Transport of macroparticles in dissipative two-dimensional Yukawa systems. Physica Scripta, 2006, 73, 577-586.  | 2.5      | 76             |
| 7  | Instability of plasma-dust systems with a macroparticle charge gradient. Journal of Experimental and<br>Theoretical Physics, 2000, 91, 1147-1162.   | 0.9      | 65             |
| 8  | Criteria of Phase Transitions in a Complex Plasma. Physical Review Letters, 2002, 88, 245002.   | 7.8      | 58             |
| 9  | Dynamics of macroparticles in a dusty plasma under microgravity conditions (First experiments on) Tj ETQq1 1  | 0.784314 | rgBT_/Overloci |
| 10 | The dynamics of formation of monolayer dust structures in a confining electric field. Physica Scripta, 2009, 79, 035501.  | 2.5      | 42             |
| 11 | Thermodynamic and transport properties of nonideal systems with isotropic pair potentials. Physical<br>Review E, 2010, 82, 056411.  | 2.1      | 42             |
| 12 | Determination of Pair Interaction Forces between Particles in Nonideal Dissipative Systems. Physical Review Letters, 2009, 103, 035003.   | 7.8      | 38             |
| 13 | Formation of vortex dust structures in inhomogeneous gas-discharge plasmas. Plasma Physics<br>Reports, 2004, 30, 918-936.   | 0.9      | 34             |
| 14 | Diffusion in Microgravity of Macroparticles in a Dusty Plasma under Solar Radiation. Physical Review<br>Letters, 2002, 88, 035001.  | 7.8      | 31             |
| 15 | Analysis of macroparticle charging in the near-electrode layer of a high-frequency capacitive discharge. Journal of Experimental and Theoretical Physics, 2003, 96, 1037-1044.                            | 0.9      | 31             |
| 16 | Phase state and transport of non-Yukawa interacting macroparticles (complex plasma). Physics of Plasmas, 2004, 11, 3234-3237.   | 1.9      | 31             |
| 17 | Formation of quasi-two-dimensional dust structures in an external electric field. Plasma Physics<br>Reports, 2005, 31, 562-569.   | 0.9      | 31             |
| 18 | Two-Stage Melting in Quasi-Two-Dimensional Dissipative Yukawa Systems. Physical Review Letters,<br>2006, 97, 195001.  | 7.8      | 31             |

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|----|---|-----|-----------|
| 19 | Experimental studies of the dynamics of dust grains in gas-discharge plasmas. Plasma Physics Reports, 2003, 29, 642-656.  | 0.9 | 30        |
| 20 | Dusty-Plasma Liquid in the Statistical Theory of the Liquid State. Physical Review Letters, 2008, 101, 195003.  | 7.8 | 30        |
| 21 | Analysis of pair interparticle interaction in nonideal dissipative systems. Journal of Experimental and Theoretical Physics, 2010, 110, 662-674.                                | 0.9 | 29        |
| 22 | Solid-hexatic-liquid transition in a two-dimensional system of charged dust particles. Europhysics<br>Letters, 2015, 111, 45002.  | 2.0 | 28        |
| 23 | Role of stochastic fluctuations in the charge on macroscopic particles in dusty plasmas. Journal of<br>Experimental and Theoretical Physics, 1999, 88, 1130-1136.               | 0.9 | 27        |
| 24 | Simulation of the dynamics of strongly interacting macroparticles in a weakly ionized plasma. Journal of Experimental and Theoretical Physics, 2001, 92, 228-234.               | 0.9 | 25        |
| 25 | Three-Particle Correlations in Nonideal Dusty Plasma. Physical Review Letters, 2004, 93, 035004.  | 7.8 | 24        |
| 26 | Formation of chain structures in systems of charged grains interacting via isotropic pair potentials.<br>Plasma Physics Reports, 2013, 39, 394-398.                             | 0.9 | 22        |
| 27 | Brownian motion of dust particles in a weakly ionized plasma. JETP Letters, 2013, 97, 322-326.  | 1.4 | 21        |
| 28 | Effect of Stochastic Grain Charge Fluctuation on the Kinetic Energy of the Particles in Dusty Plasma.<br>Physica Scripta, 2000, T84, 229.                                       | 2.5 | 20        |
| 29 | Determination of the pairwise interaction potential between dust grains in plasma. Plasma Physics<br>Reports, 2007, 33, 278-288.  | 0.9 | 20        |
| 30 | Analysis of mass transfer in dissipative nonideal systems: Experiments on dusty plasmas. Journal of Experimental and Theoretical Physics, 2008, 107, 313-323.                   | 0.9 | 19        |
| 31 | Analysis of mass transfer in dissipative nonideal systems: Numerical simulation. Journal of Experimental and Theoretical Physics, 2008, 106, 955-962.                           | 0.9 | 18        |
| 32 | Technique for analysis of interparticle interaction in nonideal dissipative systems with isotropic pair potentials. Physics of Plasmas, 2009, 16, 113702.                       | 1.9 | 18        |
| 33 | The dynamics of macroparticles in a direct current glow discharge plasma under microgravitation conditions. Journal of Experimental and Theoretical Physics, 2002, 95, 673-681. | 0.9 | 17        |
| 34 | Kinetic temperature and charge of a dust grain in weakly ionized gas-discharge plasmas. Journal of<br>Experimental and Theoretical Physics, 2006, 102, 986-997.                 | 0.9 | 17        |
| 35 | Conditions for formation of dusty plasma structures in the near-electrode layer of an rf-discharge.<br>Physica Scripta, 2011, 84, 025503.                                       | 2.5 | 17        |
| 36 | Influence of inhomogeneous conditions on the kinetic energy of dust macroparticles in plasma.<br>Journal of Experimental and Theoretical Physics, 2016, 122, 193-202.           | 0.9 | 17        |

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|----|--|-----|-----------|
| 37 | Energy exchange in systems of particles with nonreciprocal interaction. Journal of Experimental and Theoretical Physics, 2015, 121, 717-726.                               | 0.9 | 16        |
| 38 | Transport properties of nonideal systems with isotropic pair interactions between particles. Plasma<br>Physics Reports, 2004, 30, 652-661.                                 | 0.9 | 15        |
| 39 | Energy density, heat capacity and diffusion constant in non-ideal Yukawa systems. Europhysics Letters, 2010, 89, 35001.  | 2.0 | 15        |
| 40 | Dust-particle charge in weakly ionized gas-discharge plasma. Europhysics Letters, 2012, 97, 55003.   | 2.0 | 15        |
| 41 | Influence of external perturbations on dynamical characteristics of dust clusters (simulation).<br>Journal of Experimental and Theoretical Physics, 2012, 115, 947-952.    | 0.9 | 15        |
| 42 | Influence of external perturbations on the interaction between grains in plasma. New Journal of Physics, 2013, 15, 053004.   | 2.9 | 15        |
| 43 | Empirical approximation for the ion current to the surface of a dust grain in a weakly ionized gas-discharge plasma. Plasma Physics Reports, 2006, 32, 485-488.            | 0.9 | 14        |
| 44 | Two-dimensional phase transition in a strongly nonideal dusty plasma. Journal of Experimental and<br>Theoretical Physics, 2015, 120, 327-332.                              | 0.9 | 14        |
| 45 | Self-oscillations of macroparticles in the dust plasma of glow discharge. Journal of Experimental and<br>Theoretical Physics, 2001, 93, 1184-1189.                         | 0.9 | 12        |
| 46 | Theory of dust self-organized convection in cylindrical discharges. II. Dust convective structures.<br>Physics of Plasmas, 2006, 13, 032306.                               | 1.9 | 12        |
| 47 | Plasma parameters and existence conditions of monolayer dust structures in the electrode sheath of an RF discharge. Plasma Physics Reports, 2011, 37, 1035-1041.           | 0.9 | 12        |
| 48 | Theory of dust self-organized convection in cylindrical discharges. I. The model and stationary nonlinear dust structures. Physics of Plasmas, 2006, 13, 032305.           | 1.9 | 11        |
| 49 | Spectral and Structural Characteristics for Cluster Systems of Charged Brownian Particles. Journal of Experimental and Theoretical Physics, 2018, 127, 350-356.            | 0.9 | 11        |
| 50 | Self-confined particle pairs in complex plasmas. Physical Review E, 2017, 95, 013202.  | 2.1 | 10        |
| 51 | Processes of energy exchange in systems of nonidentical particles with inhomogeneous sources of heat. Journal of Experimental and Theoretical Physics, 2017, 124, 839-844. | 0.9 | 10        |
| 52 | Formation of ordered structures of charged macroparticles in a photoemission trap. Journal of Experimental and Theoretical Physics, 2000, 91, 307-313.                     | 0.9 | 9         |
| 53 | Verifying the reciprocity of interparticle interaction forces in strongly coupled systems. Journal of Experimental and Theoretical Physics, 2017, 124, 678-682.            | 0.9 | 9         |
| 54 | Simulation of mass transfer in systems with isotropic pair correlation of particles. Journal of<br>Experimental and Theoretical Physics, 2004, 99, 510-521.                | 0.9 | 8         |

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|----|---|-----|-----------|
| 55 | Influence of thermal fluctuations on dynamics of charged particles in electromagnetic fields. Physics of Plasmas, 2017, 24, .   | 1.9 | 8         |
| 56 | Formation Conditions and Stability Criteria for Small-Size Cluster Systems. Plasma Physics Reports, 2018, 44, 270-277.  | 0.9 | 8         |
| 57 | Transport properties of quasi-two-dimensional dissipative systems with a screened Coulomb potential.<br>Plasma Physics Reports, 2007, 33, 494-502.  | 0.9 | 7         |
| 58 | Numerical simulation of the dynamics of cylindrical dust grains in an external electric field. Plasma<br>Physics Reports, 2008, 34, 413-421.  | 0.9 | 7         |
| 59 | Orientational order and formation of topological defects in two-dimensional systems. Journal of Experimental and Theoretical Physics, 2013, 117, 169-176.                                   | 0.9 | 7         |
| 60 | Correlational approach to study interactions between dust Brownian particles in a plasma. Physics of<br>Plasmas, 2018, 25, .  | 1.9 | 7         |
| 61 | Spectral Characteristics of Stochastic Motion in the System of Two Interacting Particles. Journal of Experimental and Theoretical Physics, 2020, 130, 463-470.                              | 0.9 | 7         |
| 62 | Simulations of mass-transport processes on short observation time scales in nonideal dissipative systems. Journal of Experimental and Theoretical Physics, 2005, 100, 1018-1028.            | 0.9 | 6         |
| 63 | Processes of diffusion in a limited ensemble of charged particles in a static magnetic field. Journal of<br>Experimental and Theoretical Physics, 2017, 125, 976-983.                       | 0.9 | 6         |
| 64 | Spectral Characteristics of Small Cluster Systems (Chain Structures). Plasma Physics Reports, 2020,<br>46, 419-429.   | 0.9 | 6         |
| 65 | Contactless methods for studying interactions between dust particles in a gas-discharge plasma.<br>Plasma Physics and Controlled Fusion, 2013, 55, 124022.                                  | 2.1 | 5         |
| 66 | Influence of grain charge gradients on the dynamics of macroparticles in an electrostatic trap.<br>Plasma Physics Reports, 2017, 43, 354-362.   | 0.9 | 5         |
| 67 | Analysis of pair correlation functions for macroscopic particles in dusty plasmas: Numerical simulation and experiment. Journal of Experimental and Theoretical Physics, 2004, 98, 515-526. | 0.9 | 4         |
| 68 | Physics and theory of dust convection in a complex plasma. AIP Conference Proceedings, 2005, , .  | 0.4 | 4         |
| 69 | Heat transfer in dust structures in an RF discharge plasma. Plasma Physics Reports, 2006, 32, 323-331.  | 0.9 | 4         |
| 70 | Quasi-two-dimensional dissipative systems with yukawa interaction: the equations of state. European<br>Physical Journal D, 2006, 56, B591-B595.   | 0.4 | 4         |
| 71 | Influence of topological defects on mass transfer processes in two-dimensional nonideal systems.<br>Europhysics Letters, 2014, 106, 65001.  | 2.0 | 4         |
| 72 | Spectral Characteristics of Charged Particles in Limited Chain Structures. Journal of Experimental and Theoretical Physics, 2020, 131, 361-373.   | 0.9 | 4         |

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|----|---|-----|-----------|
| 73 | Redistribution of Stochastic Kinetic Energy in Ensembles of Non-Identical Charged Particles. Plasma<br>Physics Reports, 2020, 46, 791-799.  | 0.9 | 4         |
| 74 | Levitation of charged macroparticles in the anode region of a glow discharge. Journal of Experimental and Theoretical Physics, 2000, 91, 106-110.   | 0.9 | 3         |
| 75 | Transport Processes in Dusty Plasma Fluid. Contributions To Plasma Physics, 2005, 45, 204-212.  | 1.1 | 3         |
| 76 | Thermodynamic properties of two-dimensional nonideal structures with isotropic pair potential.<br>Plasma Physics Reports, 2009, 35, 385-393.  | 0.9 | 3         |
| 77 | Formation of chain structures with an anisotropic pairwise interaction between grains. Plasma<br>Physics Reports, 2014, 40, 713-722.  | 0.9 | 3         |
| 78 | Amplitude instability in the mass-transfer theory for Yukawa systems. Physics of Plasmas, 2017, 24, 113705.   | 1.9 | 3         |
| 79 | Redistribution of the Stochastic Kinetic Energy in Bilayer Systems of Nonidentical Charged Particles.<br>Journal of Experimental and Theoretical Physics, 2020, 131, 1026-1031.               | 0.9 | 3         |
| 80 | Spectral Characteristics of Small-Sized Quasi-Two-Dimensional Clusters. Plasma Physics Reports, 2020,<br>46, 1210-1219.   | 0.9 | 3         |
| 81 | Diffraction of optical radiation on spatially ordered structures of macroparticles in a strongly nonideal thermal plasma. Journal of Experimental and Theoretical Physics, 2000, 90, 470-473. | 0.9 | 2         |
| 82 | Analysis of the formation of ordered dust-grain structures in a thermal plasma. Plasma Physics<br>Reports, 2000, 26, 586-591.   | 0.9 | 2         |
| 83 | Transport properties of macroparticles in dust plasma induced by solar radiation. Journal of Experimental and Theoretical Physics, 2001, 92, 979-985.   | 0.9 | 2         |
| 84 | The diffusion of macroparticles and criteria of phase transitions for dust structures in weakly ionized plasma. Journal of Experimental and Theoretical Physics, 2002, 94, 26-36.             | 0.9 | 2         |
| 85 | Hexatic phase in two-dimensional Yukawa systems: Existence and properties. Journal of Physics:<br>Conference Series, 2015, 653, 012103.   | 0.4 | 2         |
| 86 | Formation dynamics of jumps in systems of charged particles. Journal of Experimental and Theoretical Physics, 2017, 125, 364-368.   | 0.9 | 2         |
| 87 | Amplitude Instability in Two-Dimensional Hexagonal Clusters. Journal of Experimental and Theoretical Physics, 2018, 127, 503-507.   | 0.9 | 2         |
| 88 | Redistribution of Kinetic Energy in Three-Dimensional Clouds of Charged Dust Grains. Plasma Physics<br>Reports, 2022, 48, 33-36.  | 0.9 | 2         |
| 89 | Title is missing!. Cosmic Research, 2001, 39, 347-350.  | 0.6 | 1         |
| 90 | Dynamics of dust grains in a two-component dusty plasma induced by solar radiation under microgravity conditions. Plasma Physics Reports, 2003, 29, 31-41.                                    | 0.9 | 1         |

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|-----|--|-----|-----------|
| 91  | Pair correlation of particles in strongly nonideal systems. Journal of Experimental and Theoretical Physics, 2012, 114, 529-534.   | 0.9 | 1         |
| 92  | The evolution of the mass-transfer functions in liquid Yukawa systems. Journal of Experimental and Theoretical Physics, 2016, 123, 540-549.                              | 0.9 | 1         |
| 93  | Processes of Energy Exchange in Layered Systems of Non-Identical Charged Particles. Plasma Physics<br>Reports, 2021, 47, 832-839.  | 0.9 | 1         |
| 94  | Dynamical Phenomena in Strongly Coupled Dusty Plasma Under Microgravity Conditions. AIP<br>Conference Proceedings, 2002, , .   | 0.4 | 0         |
| 95  | Influence of Charge Variations on Dust Dynamics in a Planar rf Discharge. AIP Conference<br>Proceedings, 2002, , .   | 0.4 | 0         |
| 96  | Charge Variations in Planar RF Discharge. AIP Conference Proceedings, 2003, , .  | 0.4 | 0         |
| 97  | Formation of dust layers in the near-electrode area of RF-discharge. European Physical Journal D, 2004, 54, C557-C562.   | 0.4 | 0         |
| 98  | Experimental Study of Heat Transfer Processes for Macroparticles in a Dusty Plasma. JETP Letters, 2005, 82, 492.   | 1.4 | 0         |
| 99  | Thermal fluctuations of pair interaction forces in liquid Yukawa systems. Plasma Physics Reports, 2017, 43, 62-66.   | 0.9 | 0         |
| 100 | Effect of Magnetic Field on the Dynamics of Movement of Charged Particles in Cluster Systems.<br>Journal of Experimental and Theoretical Physics, 2019, 128, 808-815.    | 0.9 | 0         |
| 101 | Effect of Magnetic Field on the Spectral Characteristics of Thermal Motion of Charged Particles in an Isotropic Trap. Plasma Physics Reports, 2019, 45, 237-245.         | 0.9 | 0         |
| 102 | Amplitude Instability of Charged Particles in a Body-Centered Cubic Cell. Journal of Experimental and Theoretical Physics, 2019, 129, 478-483.                           | 0.9 | 0         |
| 103 | Redistribution of the Stochastic Energy in an Ensemble of Changed Particles in a Magnetic Field.<br>Journal of Experimental and Theoretical Physics, 2020, 130, 148-152. | 0.9 | 0         |
| 104 | Energy exchange in two-fraction systems of charged dust particles. Physics of Plasmas, 2021, 28, 083706.   | 1.9 | 0         |