

# A V Filippov

## List of Publications by Year in descending order

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100  
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1,073  
citations

430874

18  
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501196

28  
g-index

100  
all docs

100  
docs citations

100  
times ranked

502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatic analysis of the interactions between charged particles of dielectric materials. Journal of Chemical Physics, 2010, 133, 024105.	3.0	95
2	Charge screening in a plasma with an external ionization source. Journal of Experimental and Theoretical Physics, 2007, 104, 147-161.	0.9	47
3	Kinetic description of the screening of the charge of macroparticles in a nonequilibrium plasma. JETP Letters, 2008, 86, 761-766.	1.4	47
4	Electrostatic force between a charged sphere and a planar surface: A general solution for dielectric materials. Journal of Chemical Physics, 2014, 140, 074107.	3.0	46
5	Progress in the theory of electrostatic interactions between charged particles. Physical Chemistry Chemical Physics, 2016, 18, 5883-5895.	2.8	42
6	Why like-charged particles of dielectric materials can be attracted to one another. Journal of Colloid and Interface Science, 2011, 354, 417-420.	9.4	35
7	Interaction of two dielectric macroparticles. Journal of Experimental and Theoretical Physics, 2013, 117, 809-819.	0.9	35
8	Electrostatic Self-Assembly: Understanding the Significance of the Solvent. Journal of Chemical Theory and Computation, 2018, 14, 905-915.	5.3	31
9	Electrostatic interactions between charged dielectric particles in an electrolyte solution. Journal of Chemical Physics, 2016, 145, 084103.	3.0	30
10	An integral equation approach to calculate electrostatic interactions in many-body dielectric systems. Journal of Computational Physics, 2018, 371, 712-731.	3.8	28
11	Charging of Dust Grains in a Nuclear-Induced Plasma at High Pressures. Plasma Physics Reports, 2001, 27, 143-152.	0.9	24
12	Ionic composition of a humid air plasma under ionizing radiation. Journal of Experimental and Theoretical Physics, 2017, 125, 246-267.	0.9	23
13	Effect of the size of macroparticles on their electrostatic interaction in a plasma. Journal of Experimental and Theoretical Physics, 2009, 109, 516-529.	0.9	22
14	Screening of a moving charge in a nonequilibrium plasma. Journal of Experimental and Theoretical Physics, 2009, 108, 497-515.	0.9	20
15	Effect of the size of charged spherical macroparticles on their electrostatic interaction in an equilibrium plasma. Journal of Experimental and Theoretical Physics, 2016, 123, 1099-1109.	0.9	20
16	Electrostatic interaction between two macroparticles in the Poisson-Boltzmann model. JETP Letters, 2006, 83, 546-552.	1.4	19
17	Coagulation of dust grains in the plasma of an RF discharge in argon. Plasma Physics Reports, 2009, 35, 191-199.	0.9	19
18	Non-self-sustained discharge in nitrogen with a condensed dispersed phase. Journal of Experimental and Theoretical Physics, 2001, 92, 235-245.	0.9	18

#	ARTICLE	IF	CITATIONS
19	Screening of the dust-particle charge in a plasma with an external ionization source. JETP Letters, 2005, 81, 146-150.	1.4	18
20	Treating highly charged carbon and fullerene clusters as dielectric particles. Physical Chemistry Chemical Physics, 2011, 13, 18339-18346.	2.8	18
21	Electrostatic interaction of two charged macroparticles in an equilibrium plasma. Journal of Experimental and Theoretical Physics, 2015, 121, 909-923.	0.9	17
22	Development of a self-consistent model of dust grain charging at elevated pressures using the method of moments. Plasma Physics Reports, 2003, 29, 190-202.	0.9	16
23	Dust acoustic waves in complex plasmas at elevated pressure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 376, 31-38.	2.1	16
24	Electrostatic interactions between charged dielectric particles in an electrolyte solution: constant potential boundary conditions. Soft Matter, 2018, 14, 5480-5487.	2.7	16
25	Formation of plasma dust structures at atmospheric pressure. Journal of Experimental and Theoretical Physics, 2006, 102, 342-354.	0.9	15
26	Thermoelectric properties of a plasma at megabar pressures. JETP Letters, 2016, 104, 696-701.	1.4	15
27	Ultrahigh charging of dust grains by the beam-plasma method for creating a compact neutron source. Plasma Physics Reports, 2016, 42, 14-24.	0.9	15
28	Investigation of Dusty Plasma Based on the Ornstein-Zernike Integral Equation for a Multicomponent Fluid. JETP Letters, 2019, 110, 659-666.	1.4	15
29	Electrostatic interactions between spheroidal dielectric particles. Journal of Chemical Physics, 2020, 152, 024121.	3.0	14
30	Coagulation of charged particles in a dusty plasma. Journal of Experimental and Theoretical Physics, 2000, 90, 93-101.	0.9	13
31	Stable dust structures in non-self-sustained gas discharge under atmospheric pressure. JETP Letters, 2004, 80, 241-245.	1.4	12
32	Ultrahigh charging of dust particles in a nonequilibrium plasma. JETP Letters, 2007, 86, 14-19.	1.4	12
33	Interaction of two macroparticles in a nonequilibrium plasma. Journal of Experimental and Theoretical Physics, 2007, 105, 831-845.	0.9	12
34	Coulomb Fission in Dielectric Dication Clusters: Experiment and Theory on Steps That May Underpin the Electropray Mechanism. Journal of Physical Chemistry A, 2013, 117, 3877-3886.	2.5	12
35	Coulomb Logarithm in Nonideal and Degenerate Plasmas. Journal of Experimental and Theoretical Physics, 2018, 126, 430-439.	0.9	12
36	Screening of a moving charge in a nonequilibrium plasma. JETP Letters, 2008, 88, 24-30.	1.4	11

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37	Potential of a dust grain in a nitrogen plasma with a condensed disperse phase at room and cryogenic temperatures. <i>Plasma Physics Reports</i> , 2002, 28, 28-39.	0.9	10
38	Communication: Delayed asymmetric Coulomb fission of molecular clusters: Application of a dielectric liquid-drop model. <i>Journal of Chemical Physics</i> , 2011, 134, 031103.	3.0	10
39	Interaction of a dielectric macroparticle with a point charge in plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 115, 527-534.	0.9	10
40	Interaction of macroparticles localized in Wigner-Seitz cells of various types of cubic lattices in an equilibrium plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 123, 716-722.	0.9	9
41	Theoretical Investigation of Equilibrium Properties of the Yukawa Fluid in a Wide Range of Parameters. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 1153-1164.	0.9	9
42	Static and Collective Properties of Dusty Non-Equilibrium Plasmas. <i>Contributions To Plasma Physics</i> , 2013, 53, 442-449.	1.1	8
43	Shielding and Interaction of Dust Particles in Non-Equilibrium Plasma. <i>Contributions To Plasma Physics</i> , 2007, 47, 388-401.	1.1	7
44	Electrostatic Interaction of Spherical Microparticles in Dusty Plasmas. <i>Contributions To Plasma Physics</i> , 2009, 49, 431-445.	1.1	7
45	Orbital motion of dust particles in an rf magnetron discharge. Ion drag force or neutral atom wind force. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 114, 535-546.	0.9	7
46	Properties of Yukawa Crystals and Liquid under Phase Equilibrium Conditions. <i>Journal of Experimental and Theoretical Physics</i> , 2019, 129, 459-469.	0.9	7
47	Effect of the electric field of the anode sheath on the growth of aligned carbon nanotubes in a glow discharge. <i>Plasma Physics Reports</i> , 2007, 33, 43-53.	0.9	6
48	Charging dust particles in plasmas with two-temperature distributions of electrons and with cold ions. <i>Physics of Plasmas</i> , 2009, 16, 093702.	1.9	6
49	Coulomb fission in multiply charged molecular clusters: Experiment and theory. <i>Journal of Chemical Physics</i> , 2017, 146, 164302.	3.0	6
50	Electrostatic interaction of macroparticles in a plasma in the strong screening regime. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 125, 518-529.	0.9	6
51	Experimental and theoretical study of the near IR emission of xenon excited by a fast electron beam. <i>Plasma Physics Reports</i> , 2017, 43, 515-532.	0.9	6
52	Neutron yield when fast deuterium ions collide with strongly charged tritium-saturated dust particles. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 231-243.	0.9	6
53	Effect of the shape of the electron energy distribution function on the dust grain charge and its screening in glow discharge plasmas. <i>Plasma Physics Reports</i> , 2012, 38, 244-253.	0.9	5
54	Study of dust particle charging in weakly ionized inert gases taking into account the nonlocality of the electron energy distribution function. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 985-995.	0.9	5

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55	Dust particle charge screening in the dry-air plasma produced by an external ionization source. <i>Journal of Experimental and Theoretical Physics</i> , 2015, 121, 340-354.	0.9	5
56	Coulomb Fission in Multiply-Charged Ammonia Clusters: Accurate Measurements of the Rayleigh Instability Limit from Fragmentation Patterns. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2634-2644.	2.5	5
57	An experimental and theoretical study of the high-pressure dusty plasma created by a stationary e-beam. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B603-B615.	2.1	4
58	Screening of the dust grain charge in a nonequilibrium plasma with two positive ion species. <i>Plasma Physics Reports</i> , 2010, 36, 105-115.	0.9	4
59	Dust acoustic waves in a nonequilibrium dusty plasma. <i>JETP Letters</i> , 2010, 91, 558-565.	1.4	4
60	Dust trap formation in a non-self-sustained discharge with external gas ionization. <i>Plasma Physics Reports</i> , 2015, 41, 895-904.	0.9	4
61	Interaction between particles with inhomogeneous surface charge distributions: Revisiting the Coulomb fission of dication molecular clusters. <i>Journal of Chemical Physics</i> , 2019, 151, 154113.	3.0	4
62	Electrostatic interactions and stability of dusty plasmas and the multicomponent Ornstein-Zernike equation. <i>AIP Advances</i> , 2020, 10, 045232.	1.3	4
63	The influence of surface charge on the coalescence of ice and dust particles in the mesosphere and lower thermosphere. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8735-8745.	4.9	4
64	Formation of the structure in the cathode region of non-self-sustained discharge in nitrogen. <i>Journal Physics D: Applied Physics</i> , 1994, 27, 273-279.	2.8	3
65	Mechanism of diffusion of positively charged dust particles in a photoemission cell under microgravity conditions. <i>Journal of Experimental and Theoretical Physics</i> , 2003, 96, 684-694.	0.9	3
66	Dusty photoresonant plasma with coulomb collisions. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 61-72.	0.9	3
67	Neutral gas rotation in magnetron discharge. <i>Technical Physics Letters</i> , 2014, 40, 1142-1145.	0.7	3
68	A General Geometric Representation of Sphere-Sphere Interactions. <i>Progress in Theoretical Chemistry and Physics</i> , 2015, , 29-36.	0.2	3
69	Electrostatic Interaction of Two Point Charges in Equilibrium Plasmas within the Debye Approximation. <i>Contributions To Plasma Physics</i> , 2016, 56, 380-390.	1.1	3
70	Microparticle Charge Screening in Non-Equilibrium Plasmas with Two Types of Positive Ions. <i>Contributions To Plasma Physics</i> , 2009, 49, 769-780.	1.1	2
71	Screening of a charged dust particle within a nonlocal charging theory. <i>Journal of Experimental and Theoretical Physics</i> , 2013, 116, 516-529.	0.9	2
72	The electrostatic interaction of two point charges in equilibrium plasmas within the Debye approximation. <i>Journal of Physics: Conference Series</i> , 2015, 653, 012125.	0.4	2

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73	A Dusty Plasma in a Non-Self-Sustained Gas Discharge at Atmospheric Pressure. Contributions To Plasma Physics, 2016, 56, 286-295.	1.1	2
74	Analysis of macroparticle charge screening in a nonequilibrium plasma based on the kinetic collisional point sink model. Journal of Experimental and Theoretical Physics, 2017, 125, 926-939.	0.9	2
75	Galvanomagnetic and Thermomagnetic Properties of a Nonideal Xenon Plasma at Megabar Pressures in Megagauss Magnetic Fields. JETP Letters, 2018, 107, 19-24.	1.4	2
76	Experimental Simulation of a Diamond Betavoltaic Battery. Technical Physics Letters, 2018, 44, 697-699.	0.7	2
77	Designing stable binary endohedral fullerene lattices. Physical Chemistry Chemical Physics, 2022, 24, 10044-10052.	2.8	2
78	Interaction between Two Charged Dielectric Balls with Strongly Different Radii. JETP Letters, 2022, 115, 174-180.	1.4	2
79	Electrostatic Interaction of a Charged Dielectric Sphere with a Flat Charged Interface between Homogeneous Dielectrics. Journal of Experimental and Theoretical Physics, 2022, 134, 590-599.	0.9	2
80	Shielding of a Moving Charged Dust Particle in the Nonequilibrium Plasma. AIP Conference Proceedings, 2008, , .	0.4	1
81	Study of Photoemissive Dusty Plasma. AIP Conference Proceedings, 2008, , .	0.4	1
82	Screening of a uniformly moving charged macroparticle in a nonequilibrium plasma. Plasma Physics Reports, 2010, 36, 1120-1128.	0.9	1
83	Bipolar charging of dust particles under ultraviolet radiation. Journal of Experimental and Theoretical Physics, 2011, 112, 884-895.	0.9	1
84	Microparticle charging in dry air plasma created by an external ionization source. Journal of Physics: Conference Series, 2015, 653, 012126.	0.4	1
85	Estimates of the Dependence of the Fusion Neutron Yield on the Initial Plasma Density and Temperature in Fast Pinches. JETP Letters, 2019, 110, 405-410.	1.4	1
86	Formation and Growth of Nuclei of the Stable Crystalline Phase in a Supercooled Yukawa Liquid. Journal of Experimental and Theoretical Physics, 2021, 132, 277-284.	0.9	1
87	Ring whirl radiative structures after laser breakdown in noble gases. , 1997, , .		0
88	Dust grains in plasma with coulomb collisions. JETP Letters, 2003, 77, 482-485.	1.4	0
89	Plate-like Dusty Structures in an e-Beam Sustained Glow Discharge at Atmospheric Pressure. AIP Conference Proceedings, 2005, , .	0.4	0
90	Coagulation of Dust Particles in Argon Plasma of RF Discharge. AIP Conference Proceedings, 2008, , .	0.4	0

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91	Interaction in equilibrium plasmas of charged macroparticles located in nodes of cubic lattices. Journal of Physics: Conference Series, 2016, 774, 012169.	0.4	0
92	Screening in a multicomponent plasma by the example of a wet air plasma. Journal of Experimental and Theoretical Physics, 2017, 125, 964-975.	0.9	0
93	Screening of a dust particle charge in a humid air plasma created by an electron beam. Journal of Physics: Conference Series, 2018, 946, 012148.	0.4	0
94	Dusty waves and vortices in rf magnetron discharge plasma. Journal of Physics: Conference Series, 2018, 946, 012149.	0.4	0
95	Electron transport in nonideal and degenerate plasmas. Journal of Physics: Conference Series, 2019, 1147, 012101.	0.4	0
96	Azimuthal inhomogeneities of axially symmetric rf discharge plasma in arc-shaped magnetic field. Journal of Physics: Conference Series, 2019, 1147, 012116.	0.4	0
97	Interaction potential of two spherical macroparticles at constant surface potentials. Journal of Physics: Conference Series, 2019, 1147, 012114.	0.4	0
98	Electron transport in dense degenerate plasmas. Journal of Physics: Conference Series, 2020, 1696, 012023.	0.4	0
99	Distribution of Electrons and Ions Near an Absorbing Spherical Body in a Nonequilibrium Plasma. Journal of Experimental and Theoretical Physics, 2021, 132, 148-158.	0.9	0
100	Phase coexistence of Yukawa liquid and bcc crystal by the Kofke integration method and a two phase approach. Journal of Physics: Conference Series, 2021, 1787, 012056.	0.4	0