

A V Filippov

List of Publications by Year in descending order

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papers

1,073
citations

430874

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501196

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all docs

100
docs citations

100
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing stable binary endohedral fullerene lattices. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10044-10052.	2.8	2
2	Interaction between Two Charged Dielectric Balls with Strongly Different Radii. <i>JETP Letters</i> , 2022, 115, 174-180.	1.4	2
3	Electrostatic Interaction of a Charged Dielectric Sphere with a Flat Charged Interface between Homogeneous Dielectrics. <i>Journal of Experimental and Theoretical Physics</i> , 2022, 134, 590-599.	0.9	2
4	Distribution of Electrons and Ions Near an Absorbing Spherical Body in a Nonequilibrium Plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2021, 132, 148-158.	0.9	0
5	Phase coexistence of Yukawa liquid and bcc crystal by the Kofke integration method and a two phase approach. <i>Journal of Physics: Conference Series</i> , 2021, 1787, 012056.	0.4	0
6	Formation and Growth of Nuclei of the Stable Crystalline Phase in a Supercooled Yukawa Liquid. <i>Journal of Experimental and Theoretical Physics</i> , 2021, 132, 277-284.	0.9	1
7	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
8	Electron transport in dense degenerate plasmas. <i>Journal of Physics: Conference Series</i> , 2020, 1696, 012023.	0.4	0
9	Electrostatic interactions between spheroidal dielectric particles. <i>Journal of Chemical Physics</i> , 2020, 152, 024121.	3.0	14
10	Electrostatic interactions and stability of dusty plasmas and the multicomponent Ornstein-Zernike equation. <i>AIP Advances</i> , 2020, 10, 045232.	1.3	4
11	Electron transport in nonideal and degenerate plasmas. <i>Journal of Physics: Conference Series</i> , 2019, 1147, 012101.	0.4	0
12	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
13	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
14	Azimuthal inhomogeneities of axially symmetric rf discharge plasma in arc-shaped magnetic field. <i>Journal of Physics: Conference Series</i> , 2019, 1147, 012116.	0.4	0
15	Interaction potential of two spherical macroparticles at constant surface potentials. <i>Journal of Physics: Conference Series</i> , 2019, 1147, 012114.	0.4	0
16	Estimates of the Dependence of the Fusion Neutron Yield on the Initial Plasma Density and Temperature in Fast Pinches. <i>JETP Letters</i> , 2019, 110, 405-410.	1.4	1
17	Investigation of Dusty Plasma Based on the Ornstein-Zernike Integral Equation for a Multicomponent Fluid. <i>JETP Letters</i> , 2019, 110, 659-666.	1.4	15
18	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

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19	Coulomb Logarithm in Nonideal and Degenerate Plasmas. Journal of Experimental and Theoretical Physics, 2018, 126, 430-439.	0.9	12
20	Electrostatic Self-Assembly: Understanding the Significance of the Solvent. Journal of Chemical Theory and Computation, 2018, 14, 905-915.	5.3	31
21	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
22	Theoretical Investigation of Equilibrium Properties of the Yukawa Fluid in a Wide Range of Parameters. Journal of Experimental and Theoretical Physics, 2018, 127, 1153-1164.	0.9	9
23	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
24	Dusty waves and vortices in rf magnetron discharge plasma. Journal of Physics: Conference Series, 2018, 946, 012149.	0.4	0
25	Experimental Simulation of a Diamond Betavoltaic Battery. Technical Physics Letters, 2018, 44, 697-699.	0.7	2
26	An integral equation approach to calculate electrostatic interactions in many-body dielectric systems. Journal of Computational Physics, 2018, 371, 712-731.	3.8	28
27	Electrostatic interactions between charged dielectric particles in an electrolyte solution: constant potential boundary conditions. Soft Matter, 2018, 14, 5480-5487.	2.7	16
28	Coulomb fission in multiply charged molecular clusters: Experiment and theory. Journal of Chemical Physics, 2017, 146, 164302.	3.0	6
29	Electrostatic interaction of macroparticles in a plasma in the strong screening regime. Journal of Experimental and Theoretical Physics, 2017, 125, 518-529.	0.9	6
30	Ionic composition of a humid air plasma under ionizing radiation. Journal of Experimental and Theoretical Physics, 2017, 125, 246-267.	0.9	23
31	Experimental and theoretical study of the near IR emission of xenon excited by a fast electron beam. Plasma Physics Reports, 2017, 43, 515-532.	0.9	6
32	Neutron yield when fast deuterium ions collide with strongly charged tritium-saturated dust particles. Journal of Experimental and Theoretical Physics, 2017, 124, 231-243.	0.9	6
33	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
34	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
35	Electrostatic Interaction of Two Point Charges in Equilibrium Plasmas within the Debye Approximation. Contributions To Plasma Physics, 2016, 56, 380-390.	1.1	3
36	Thermoelectric properties of a plasma at megabar pressures. JETP Letters, 2016, 104, 696-701.	1.4	15

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37	Electrostatic interactions between charged dielectric particles in an electrolyte solution. Journal of Chemical Physics, 2016, 145, 084103.	3.0	30
38	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
39	Interaction of macroparticles localized in Wigner-Seitz cells of various types of cubic lattices in an equilibrium plasma. Journal of Experimental and Theoretical Physics, 2016, 123, 716-722.	0.9	9
40	Interaction in equilibrium plasmas of charged macroparticles located in nodes of cubic lattices. Journal of Physics: Conference Series, 2016, 774, 012169.	0.4	0
41	A Dusty Plasma in a Non-Self-Sustained Gas Discharge at Atmospheric Pressure. Contributions To Plasma Physics, 2016, 56, 286-295.	1.1	2
42	Progress in the theory of electrostatic interactions between charged particles. Physical Chemistry Chemical Physics, 2016, 18, 5883-5895.	2.8	42
43	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
44	Electrostatic interaction of two charged macroparticles in an equilibrium plasma. Journal of Experimental and Theoretical Physics, 2015, 121, 909-923.	0.9	17
45	Dust particle charge screening in the dry-air plasma produced by an external ionization source. Journal of Experimental and Theoretical Physics, 2015, 121, 340-354.	0.9	5
46	Microparticle charging in dry air plasma created by an external ionization source. Journal of Physics: Conference Series, 2015, 653, 012126.	0.4	1
47	The electrostatic interaction of two point charges in equilibrium plasmas within the Debye approximation. Journal of Physics: Conference Series, 2015, 653, 012125.	0.4	2
48	A General Geometric Representation of Sphere-Sphere Interactions. Progress in Theoretical Chemistry and Physics, 2015, , 29-36.	0.2	3
49	Dust trap formation in a non-self-sustained discharge with external gas ionization. Plasma Physics Reports, 2015, 41, 895-904.	0.9	4
50	Neutral gas rotation in magnetron discharge. Technical Physics Letters, 2014, 40, 1142-1145.	0.7	3
51	Study of dust particle charging in weakly ionized inert gases taking into account the nonlocality of the electron energy distribution function. Journal of Experimental and Theoretical Physics, 2014, 119, 985-995.	0.9	5
52	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
53	Screening of a charged dust particle within a nonlocal charging theory. Journal of Experimental and Theoretical Physics, 2013, 116, 516-529.	0.9	2
54	Interaction of two dielectric macroparticles. Journal of Experimental and Theoretical Physics, 2013, 117, 809-819.	0.9	35

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55	Static and Collective Properties of Dusty Non-Equilibrium Plasmas. Contributions To Plasma Physics, 2013, 53, 442-449.	1.1	8
56	Coulomb Fission in Dielectric Dication Clusters: Experiment and Theory on Steps That May Underpin the Electrospray Mechanism. Journal of Physical Chemistry A, 2013, 117, 3877-3886.	2.5	12
57	Interaction of a dielectric macroparticle with a point charge in plasma. Journal of Experimental and Theoretical Physics, 2012, 115, 527-534.	0.9	10
58	Orbital motion of dust particles in an rf magnetron discharge. Ion drag force or neutral atom wind force. Journal of Experimental and Theoretical Physics, 2012, 114, 535-546.	0.9	7
59	Effect of the shape of the electron energy distribution function on the dust grain charge and its screening in glow discharge plasmas. Plasma Physics Reports, 2012, 38, 244-253.	0.9	5
60	Treating highly charged carbon and fullerene clusters as dielectric particles. Physical Chemistry Chemical Physics, 2011, 13, 18339-18346.	2.8	18
61	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
62	Bipolar charging of dust particles under ultraviolet radiation. Journal of Experimental and Theoretical Physics, 2011, 112, 884-895.	0.9	1
63	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
64	Communication: Delayed asymmetric Coulomb fission of molecular clusters: Application of a dielectric liquid-drop model. Journal of Chemical Physics, 2011, 134, 031103.	3.0	10
65	Screening of the dust grain charge in a nonequilibrium plasma with two positive ion species. Plasma Physics Reports, 2010, 36, 105-115.	0.9	4
66	Screening of a uniformly moving charged macroparticle in a nonequilibrium plasma. Plasma Physics Reports, 2010, 36, 1120-1128.	0.9	1
67	Dust acoustic waves in a nonequilibrium dusty plasma. JETP Letters, 2010, 91, 558-565.	1.4	4
68	Electrostatic analysis of the interactions between charged particles of dielectric materials. Journal of Chemical Physics, 2010, 133, 024105.	3.0	95
69	Electrostatic Interaction of Spherical Microparticles in Dusty Plasmas. Contributions To Plasma Physics, 2009, 49, 431-445.	1.1	7
70	Microparticle Charge Screening in Non-Equilibrium Plasmas with Two Types of Positive Ions. Contributions To Plasma Physics, 2009, 49, 769-780.	1.1	2
71	Screening of a moving charge in a nonequilibrium plasma. Journal of Experimental and Theoretical Physics, 2009, 108, 497-515.	0.9	20
72	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

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73	Coagulation of dust grains in the plasma of an RF discharge in argon. Plasma Physics Reports, 2009, 35, 191-199.	0.9	19
74	Charging dust particles in plasmas with two-temperature distributions of electrons and with cold ions. Physics of Plasmas, 2009, 16, 093702.	1.9	6
75	Kinetic description of the screening of the charge of macroparticles in a nonequilibrium plasma. JETP Letters, 2008, 86, 761-766.	1.4	47
76	Screening of a moving charge in a nonequilibrium plasma. JETP Letters, 2008, 88, 24-30.	1.4	11
77	Shielding of a Moving Charged Dust Particle in the Nonequilibrium Plasma. AIP Conference Proceedings, 2008, , .	0.4	1
78	Study of Photoemissive Dusty Plasma. AIP Conference Proceedings, 2008, , .	0.4	1
79	Coagulation of Dust Particles in Argon Plasma of RF Discharge. AIP Conference Proceedings, 2008, , .	0.4	0
80	Shielding and Interaction of Dust Particles in Non-Equilibrium Plasma. Contributions To Plasma Physics, 2007, 47, 388-401.	1.1	7
81	Ultrahigh charging of dust particles in a nonequilibrium plasma. JETP Letters, 2007, 86, 14-19.	1.4	12
82	Charge screening in a plasma with an external ionization source. Journal of Experimental and Theoretical Physics, 2007, 104, 147-161.	0.9	47
83	Interaction of two macroparticles in a nonequilibrium plasma. Journal of Experimental and Theoretical Physics, 2007, 105, 831-845.	0.9	12
84	Effect of the electric field of the anode sheath on the growth of aligned carbon nanotubes in a glow discharge. Plasma Physics Reports, 2007, 33, 43-53.	0.9	6
85	Electrostatic interaction between two macroparticles in the Poisson-Boltzmann model. JETP Letters, 2006, 83, 546-552.	1.4	19
86	Formation of plasma dust structures at atmospheric pressure. Journal of Experimental and Theoretical Physics, 2006, 102, 342-354.	0.9	15
87	Screening of the dust-particle charge in a plasma with an external ionization source. JETP Letters, 2005, 81, 146-150.	1.4	18
88	An experimental and theoretical study of the high-pressure dusty plasma created by a stationary e-beam. Plasma Physics and Controlled Fusion, 2005, 47, B603-B615.	2.1	4
89	Plate-like Dusty Structures in an e-Beam Sustained Glow Discharge at Atmospheric Pressure. AIP Conference Proceedings, 2005, , .	0.4	0
90	Dusty photoresonant plasma with coulomb collisions. Journal of Experimental and Theoretical Physics, 2004, 99, 61-72.	0.9	3

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91	Stable dust structures in non-self-sustained gas discharge under atmospheric pressure. JETP Letters, 2004, 80, 241-245.	1.4	12
92	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
93	Mechanism of diffusion of positively charged dust particles in a photoemission cell under microgravity conditions. Journal of Experimental and Theoretical Physics, 2003, 96, 684-694.	0.9	3
94	Dust grains in plasma with coulomb collisions. JETP Letters, 2003, 77, 482-485.	1.4	0
95	Potential of a dust grain in a nitrogen plasma with a condensed disperse phase at room and cryogenic temperatures. Plasma Physics Reports, 2002, 28, 28-39.	0.9	10
96	Charging of Dust Grains in a Nuclear-Induced Plasma at High Pressures. Plasma Physics Reports, 2001, 27, 143-152.	0.9	24
97	Non-self-sustained discharge in nitrogen with a condensed dispersed phase. Journal of Experimental and Theoretical Physics, 2001, 92, 235-245.	0.9	18
98	Coagulation of charged particles in a dusty plasma. Journal of Experimental and Theoretical Physics, 2000, 90, 93-101.	0.9	13
99	Ring whirl radiative structures after laser breakdown in noble gases. , 1997, , .		0
100	Formation of the structure in the cathode region of non-self-sustained discharge in nitrogen. Journal Physics D: Applied Physics, 1994, 27, 273-279.	2.8	3