S A Khrapak

List of Publications by Year
in descending order

217 papers	8,574 citations	50276 46 h-index	53230 85 g-index
222 all docs	222 docs citations	222 times ranked	1623 citing authors

#	Article	IF	Citations
1	Complex (dusty) plasmas: Current status, open issues, perspectives. Physics Reports, 2005, 421, 1-103.	25.6	1,013
2	Dusty plasmas. Physics-Uspekhi, 2004, 47, 447-492.	2.2	585
3	Ion drag force in complex plasmas. Physical Review E, 2002, 66, 046414.	2.1	293
4	Particle charge in the bulk of gas discharges. Physical Review E, 2005, 72, 016406.	2.1	287
5	Scattering in the Attractive Yukawa Potential in the Limit of Strong Interaction. Physical Review Letters, 2003, 90, 225002.	7.8	173
6	Experimental Determination of Dust-Particle Charge in a Discharge Plasma at Elevated Pressures. Physical Review Letters, 2004, 93, 085001.	7.8	170
7	Complex plasma laboratory PK-3 Plus on the International Space Station. New Journal of Physics, 2008, 10, 033036.	2.9	155
8	Basic Processes in Complex (Dusty) Plasmas: Charging, Interactions, and Ion Drag Force. Contributions To Plasma Physics, 2009, 49, 148-168.	1.1	144
9	Weakly dissipative dust-ion-acoustic solitons. Physical Review E, 2003, 67, 056402.	2.1	139
10	Mechanism of dust-acoustic instability in a direct current glow discharge plasma. Physics of Plasmas, 2000, 7, 1374-1380.	1.9	138
11	Influence of a Polarization Force on Dust Acoustic Waves. Physical Review Letters, 2009, 102, 245004.	7.8	138
12	Charge-fluctuation-induced heating of dust particles in a plasma. Physical Review E, 1999, 60, 5959-5964.	2.1	123
13	Universal scaling in complex (dusty) plasmas. Physical Review E, 2002, 66, 016404.	2.1	123
14	Scaling law for the fluid-solid phase transition in Yukawa systems (dusty plasmas). Journal of Experimental and Theoretical Physics, 2000, 90, 287-289.	0.9	110
15	Hybrid approach to the ion drag force. Physics of Plasmas, 2005, 12, 042308.	1.9	110
16	Electric Potential Around an Absorbing Body in Plasmas: Effect of Ion-Neutral Collisions. Physical Review Letters, 2008, 100, 225003.	7.8	102
17	Momentum transfer in complex plasmas. Physical Review E, 2004, 70, 056405.	2.1	99
18	Compressional waves in complex (dusty) plasmas under microgravity conditions. Physics of Plasmas, 2003, 10, 1-4.	1.9	90

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19	Dynamical properties of random charge fluctuations in a dusty plasma with different charging mechanisms. Physical Review E, 1999, 59, 6017-6022.	2.1	89
20	Force on a Charged Test Particle in a Collisional Flowing Plasma. Physical Review Letters, 2004, 92, 205007.	7.8	89
21	Superdiffusion and Viscoelastic Vortex Flows in a Two-Dimensional Complex Plasma. Physical Review Letters, 2006, 96, 105010.	7.8	88
22	Complex plasmaâ€"the plasma state of soft matter. Soft Matter, 2011, 7, 1287-1298.	2.7	86
23	Force field inside the void in complex plasmas under microgravity conditions. Physical Review E, 2005, 71, 056401.	2.1	78
24	Kinetic approach for the ion drag force in a collisional plasma. Physical Review E, 2005, 71, 016405.	2.1	78
25	Ordered structures in a nonideal dusty glow-discharge plasma. Journal of Experimental and Theoretical Physics, 1997, 85, 1110-1118.	0.9	76
26	Charging properties of a dust grain in collisional plasmas. Physics of Plasmas, 2006, 13, 052114.	1.9	75
27	Transport of Microparticles in Weakly Ionized Gas-Discharge Plasmas under Microgravity Conditions. Physical Review Letters, 2003, 90, 245005.	7.8	69
28	Void Closure in Complex Plasmas under Microgravity Conditions. Physical Review Letters, 2007, 98, 265006.	7.8	69
29	Freezing and Melting of 3D Complex Plasma Structures under Microgravity Conditions Driven by Neutral Gas Pressure Manipulation. Physical Review Letters, 2011, 106, 205001.	7.8	69
30	Effect of polarization force on the propagation of dust acoustic solitary waves. New Journal of Physics, 2010, 12, 073002.	2.9	66
31	Model of grain charging in collisional plasmas accounting for collisionless layer. Physics of Plasmas, 2007, 14, 042102.	1.9	63
32	Fluid-solid phase transitions in three-dimensional complex plasmas under microgravity conditions. Physical Review E, 2012, 85, 066407.	2.1	62
33	Interaction potential of microparticles in a plasma: Role of collisions with plasma particles. Physical Review E, 2001, 64, 046403.	2.1	60
34	Scattering in the Attractive Yukawa Potential: Application to the Ion-Drag Force in Complex Plasmas. IEEE Transactions on Plasma Science, 2004, 32, 555-560.	1.3	59
35	Structural properties of dense hard sphere packings. Physical Review B, 2011, 83, .	3.2	58
36	Dusty plasmas in a constant electric field: Role of the electron drag force. Physical Review E, 2004, 69, 066411.	2.1	55

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37	Electrostatic modes in collisional complex plasmas under microgravity conditions. Physical Review E, 2004, 69, 066401.	2.1	55
38	An interpolation formula for the ion flux to a small particle in collisional plasmas. Physics of Plasmas, 2008, 15, .	1.9	55
39	Dynamics of macroparticles in a dusty plasma under microgravity conditions (First experiments on) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	54
40	Critical Point in Complex Plasmas. Physical Review Letters, 2006, 96, 015001.	7.8	54
41	Kinetics of Fluid Demixing in Complex Plasmas: Role of Two-Scale Interactions. Physical Review Letters, 2010, 105, 045001.	7.8	49
42	Grain surface temperature in noble gas discharges: Refined analytical model. Physics of Plasmas, 2006, 13, 104506.	1.9	48
43	Fluid approach to evaluate sound velocity in Yukawa systems and complex plasmas. Physical Review E, 2015, 91, 033110.	2.1	48
44	Waves in two component electron-dust plasma. Physics of Plasmas, 2001, 8, 2629-2634.	1.9	46
45	Attraction of Positively Charged Particles in Highly Collisional Plasmas. Physical Review Letters, 2007, 99, 055003.	7.8	46
46	Practical thermodynamics of Yukawa systems at strong coupling. Journal of Chemical Physics, 2015, 142, 194903.	3.0	46
47	Simple estimation of thermodynamic properties of Yukawa systems. Physical Review E, 2014, 89, 023102.	2.1	44
48	Drag force on an absorbing body in highly collisional plasmas. Journal of Applied Physics, 2007, 101, 033307.	2.5	43
49	Complex-plasma boundaries. Physical Review E, 2002, 66, 056411.	2.1	42
50	Thermodynamics of two-dimensional Yukawa systems across coupling regimes. Journal of Chemical Physics, 2017, 146, 134702.	3.0	42
51	Practical expressions for the internal energy and pressure of Yukawa fluids. Physical Review E, 2015, 91, 023108.	2.1	41
52	Rodlike particles in gas discharge plasmas: Theoretical model. Physical Review E, 2003, 68, 026403.	2.1	40
53	Electrostatic interaction between dust particles in weakly ionized complex plasmas. Physics of Plasmas, 2006, 13, 104508.	1.9	39
54	Collective modes in simple melts: Transition from soft spheres to the hard sphere limit. Scientific Reports, 2017, 7, 7985.	3.3	39

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55	Comment on â€œMeasurement of the ion drag force on falling dust particles and its relation to the void formation in complex (dusty) plasmasâ€•[Phys. Plasmas 10, 1278 (2003)]. Physics of Plasmas, 2003, 10, 4579-4581.	1.9	38
56	Determination of the ion-drag force in a complex plasma. Physics of Plasmas, 2005, 12, 093503.	1.9	37
57	Shielding of a test charge: Role of plasma production and loss balance. Physics of Plasmas, 2010, 17, 042107.	1.9	37
58	Ion sphere model for Yukawa systems (dusty plasmas). Physics of Plasmas, 2014, 21, .	1.9	37
59	On the long-waves dispersion in Yukawa systems. Physics of Plasmas, 2016, 23, .	1.9	37
60	Ion drag force in dusty plasmas. Plasma Physics and Controlled Fusion, 2004, 46, B267-B279.	2.1	36
61	Grain charging in an intermediately collisional plasma. Europhysics Letters, 2012, 97, 35001.	2.0	35
62	Particle charge in PK-4 dc discharge from ground-based and microgravity experiments. Physics of Plasmas, 2019, 26, .	1.9	35
63	Thermodynamics and dynamics of two-dimensional systems with dipolelike repulsive interactions. Physical Review E, 2018, 97, 022616.	2.1	34
64	Onset of transverse (shear) waves in strongly-coupled Yukawa fluids. Journal of Chemical Physics, 2019, 150, 104503.	3.0	34
65	PK-4: Complex Plasmas in Spaceâ€”The Next Generation. IEEE Transactions on Plasma Science, 2007, 35, 255-259.	1.3	33
66	Shielding of a Small Charged Particle in Weakly Ionized Plasmas. IEEE Transactions on Plasma Science, 2010, 38, 818-825.	1.3	33
67	Ten Years of Plasma Crystals - from ICPIG (Bochum) to ICPIG (Greifswald). Contributions To Plasma Physics, 2004, 44, 450-457.	1.1	32
68	Predicting Freezing for Some Repulsive Potentials. Physical Review Letters, 2009, 103, 255003.	7.8	32
69	Accurate freezing and melting equations for the Lennard-Jones system. Journal of Chemical Physics, 2011, 134, 094108.	3.0	31
70	Particle flows in a dc discharge in laboratory and microgravity conditions. Physical Review E, 2013, 87, 063109.	2.1	31
71	Thermodynamics of Yukawa systems and sound velocity in dusty plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 014022.	2.1	31
72	Dynamics of the ordered structure formation in a thermal dusty plasma. Physical Review E, 1998, 57, 7086-7092.	2.1	30

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73	Self-diffusion in strongly coupled Yukawa systems (complex plasmas). Physics of Plasmas, 2012, 19, .	1.9	30
74	Lindemann melting criterion in two dimensions. Physical Review Research, 2020, 2, .	3.6	30
75	Low-frequency waves in collisional complex plasmas with an ion drift. Physics of Plasmas, 2003, 10, 4616-4621.	1.9	29
76	From Fluid Flows to Crystallization: New Results from Complex Plasmas. Physica Scripta, 2004, T107, 59.	2.5	29
77	Measurement of the ion drag force in a collisionless plasma with strong ion-grain coupling. Physics of Plasmas, 2007, 14, .	1.9	29
78	Superfluidlike Motion of an Absorbing Body in a Collisional Plasma. Physical Review Letters, 2008, 100, 055002.	7.8	29
79	Communication: Universality of the melting curves for a wide range of interaction potentials. Journal of Chemical Physics, 2011, 134, 241101.	3.0	28
80	Internal Energy of the Classical Twoâ€•and Threeâ€Dimensional Oneâ€Componentâ€Plasma. Contributions To Plasma Physics, 2016, 56, 270-280.	1.1	28
81	Slowing of acoustic waves in electrorheological and string-fluid complex plasmas. New Journal of Physics, 2020, 22, 083079.	2.9	28
82	Role of stochastic fluctuations in the charge on macroscopic particles in dusty plasmas. Journal of Experimental and Theoretical Physics, 1999, 88, 1130-1136.	0.9	27
83	Practical formula for the shear viscosity of Yukawa fluids. AIP Advances, 2018, 8, .	1.3	27
84	Nonlinear drag force in dusty plasmas. Physics of Plasmas, 2005, 12, 112311.	1.9	26
85	Experimental investigation on lane formation in complex plasmas under microgravity conditions. New Journal of Physics, 2012, 14, 073058.	2.9	26
86	Complex plasma research on the International Space Station. Plasma Physics and Controlled Fusion, 2019, 61, 014004.	2.1	26
87	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
88	Dust Mode in Collisionally Dominated Complex Plasmas With Particle Drift. IEEE Transactions on Plasma Science, 2004, 32, 613-616.	1.3	25
89	Electrostatic potential behind a macroparticle in a drifting collisional plasma: Effect of plasma absorption. Physics of Plasmas, 2007, 14, 022102.	1.9	25
90	Liquid-solid phase transition in the Lennard-Jones system. Physical Review B, 2010, 82, .	3.2	25

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91	Excess entropy and Stokes-Einstein relation in simple fluids. Physical Review E, 2021, 104, 044110.	2.1	25
92	Ion drag force on a small grain in highly collisional weakly anisotropic plasma: Effect of plasma production and loss mechanisms. Physics of Plasmas, 2008, 15, 053703.	1.9	23
93	Relations between the longitudinal and transverse sound velocities in strongly coupled Yukawa fluids. Physics of Plasmas, 2016, 23, .	1.9	23
94	Complex Plasma Research under Microgravity Conditions: PKâ€3 Plus Laboratory on the International Space Station. Contributions To Plasma Physics, 2016, 56, 253-262.	1.1	23
95	Effective Coulomb logarithm for one component plasma. Physics of Plasmas, 2013, 20, 054501.	1.9	22
96	Collective modes of two-dimensional classical Coulomb fluids. Journal of Chemical Physics, 2018, 149, 134114.	3.0	22
97	Stokesâ€“Einstein relation in simple fluids revisited. Molecular Physics, 2020, 118, .	1.7	22
98	Simple thermodynamics of strongly coupled one-component-plasma in two and three dimensions. Physics of Plasmas, 2014, 21, .	1.9	21
99	Glass-transition properties of Yukawa potentials: From charged point particles to hard spheres. Physical Review E, 2014, 89, 063105.	2.1	21
100	On the estimation of sound speed in two-dimensional Yukawa fluids. Physics of Plasmas, 2015, 22, .	1.9	21
101	Thermodynamics of Yukawa fluids near the one-component-plasma limit. Physics of Plasmas, 2015, 22, .	1.9	21
102	Effect of Stochastic Grain Charge Fluctuation on the Kinetic Energy of the Particles in Dusty Plasma. Physica Scripta, 2000, T84, 229.	2.5	20
103	Ionization enhanced ion collection by a small floating grain in plasmas. Physics of Plasmas, 2012, 19, 024510.	1.9	20
104	Practical expression for an effective ion-neutral collision frequency in flowing plasmas of some noble gases. Journal of Plasma Physics, 2013, 79, 1123-1124.	2.1	20
105	A note on the binary interaction potential in complex (dusty) plasmas. Physics of Plasmas, 2008, 15, 084502.	1.9	18
106	Note: Sound velocity of a soft sphere model near the fluid-solid phase transition. Journal of Chemical Physics, 2016, 144, 126101.	3.0	18
107	Practical dispersion relations for strongly coupled plasma fluids. AIP Advances, 2017, 7, .	1.3	18
108	High-frequency elastic moduli of two-dimensional Yukawa fluids and solids. Physics of Plasmas, 2018, 25, .	1.9	18

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109	Simple Dispersion Relations for Coulomb and Yukawa Fluids. IEEE Transactions on Plasma Science, 2018, 46, 737-742.	1.3	18
110	Statistics of particle transport in a two-dimensional dusty plasma cluster. Physics of Plasmas, 2005, 12, 022302.	1.9	17
111	Multiple phase transitions associated with charge cannibalism effect in complex (dusty) plasmas. Europhysics Letters, 2010, 91, 25001.	2.0	17
112	Fingerprints of different interaction mechanisms on the collective modes in complex (dusty) plasmas. Physics of Plasmas, 2017, 24, .	1.9	17
113	Excitation of low-frequency dust density waves in flowing complex plasmas. Physics of Plasmas, 2019, 26, 053702.	1.9	17
114	Approximate expression for the electric potential around an absorbing particle in isotropic collisionless plasma. Physics of Plasmas, 2015, 22, 053704.	1.9	16
115	Influence of a charge-gradient force on dust acoustic waves. Physics of Plasmas, 2018, 25, .	1.9	16
116	Two-body entropy of two-dimensional fluids. Results in Physics, 2020, 17, 103020.	4.1	16
117	Vibrational model of thermal conduction for fluids with soft interactions. Physical Review E, 2021, 103, 013207.	2.1	16
118	Excitation of dust density waves in weak electric fields. Physics of Plasmas, 2012, 19, 023702.	1.9	15
119	Relationship between the ion drag and electric forces in dense dust clouds. Physics of Plasmas, 2013, 20, 043703.	1.9	15
120	Classical scattering in strongly attractive potentials. Physical Review E, 2014, 89, 032145.	2.1	15
121	Onset of negative dispersion in one-component-plasma revisited. Physics of Plasmas, 2016, 23, .	1.9	15
122	Unified description of sound velocities in strongly coupled Yukawa systems of different spatial dimensionality. Physics of Plasmas, 2019, 26, .	1.9	15
123	Transport properties of Lennard-Jones fluids: Freezing density scaling along isotherms. Physical Review E, 2021, 103, 042122.	2.1	15
124	Role of effective potential barriers in the nonlinear screening regime: Grain charging and ion drag force. Physics of Plasmas, 2005, 12, 092106.	1.9	14
125	Three dimensional complex plasma structures in a combined radio frequency and direct current discharge. Physics of Plasmas, 2013, 20, 043701.	1.9	14
126	Accurate transport cross sections for the Lennard-Jones potential. European Physical Journal D, 2014, 68, 1.	1.3	14

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127	Collective modes in two-dimensional one-component-plasma with logarithmic interaction. Physics of Plasmas, 2016, 23, .	1.9	14
128	Note: Melting criterion for soft particle systems in two dimensions. Journal of Chemical Physics, 2018, 148, 146101.	3.0	14
129	Elastic properties of dense hard-sphere fluids. Physical Review E, 2019, 100, 032138.	2.1	14
130	Sound Velocities of Lennard-Jones Systems Near the Liquid-Solid Phase Transition. Molecules, 2020, 25, 3498.	3.8	14
131	Freezing of Lennard-Jones-type fluids. Journal of Chemical Physics, 2011, 134, 054120.	3.0	13
132	Minima of shear viscosity and thermal conductivity coefficients of classical fluids. Physics of Fluids, 2022, 34, .	4.0	13
133	Self-Diffusion in Simple Liquids as a Random Walk Process. Molecules, 2021, 26, 7499.	3.8	13
134	Dust diffusion across a magnetic field due to random charge fluctuations. Physics of Plasmas, 2002, 9, 619-623.	1.9	12
135	Effective charge of a small absorbing body in highly collisional plasma subject to an external electric field. Physics of Plasmas, 2007, 14, 054503.	1.9	12
136	Momentum transfer cross-section for ion scattering on dust particles. Physics of Plasmas, 2017, 24, .	1.9	12
137	Electron collection and thermionic emission from a spherical dust grain in the space-charge limited regime. Physics of Plasmas, 2018, 25, 063701.	1.9	12
138	Accurate momentum transfer cross section for the attractive Yukawa potential. Physics of Plasmas, 2014, 21, 044506.	1.9	11
139	Dispersion relations of Yukawa fluids at weak and moderate coupling. Physical Review E, 2020, 102, 033207.	2.1	11
140	Thermal conductivity of strongly coupled Yukawa fluids. Physics of Plasmas, 2021, 28, .	1.9	11
141	Correlations between the Shear Viscosity and Thermal Conductivity Coefficients of Dense Simple Liquids. JETP Letters, 2021, 114, 540-544.	1.4	11
142	Effect of electron emission on the charge and shielding of a dust grain in a plasma: A continuum theory. Journal of Experimental and Theoretical Physics, 2008, 106, 166-171.	0.9	10
143	Improved theoretical approximation for the ion drag force in collisionless plasma with strong ion-grain coupling. Physics of Plasmas, 2009, 16, 044507.	1.9	10
144	Application of phenomenological freezing and melting indicators to the exp-6 and Gaussian core potentials. Molecular Physics, 2011, 109, 2417-2421.	1.7	10

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145	Modified Frost formula for the mobilities of positive ions in their parent gases. AIP Advances, 2019, 9, 095008.	1.3	10
146	From soft- to hard-sphere fluids: Crossover evidenced by high-frequency elastic moduli. Physical Review E, 2021, 103, 052117.	2.1	10
147	Entropy of simple fluids with repulsive interactions near freezing. Journal of Chemical Physics, 2021, 155, 134501.	3.0	10
148	Ion drift instability in a strongly coupled collisional complex plasma. Plasma Physics and Controlled Fusion, 2020, 62, 105006.	2.1	10
149	Gasâ€“liquid crossover in the Lennard-Jones system. Journal of Chemical Physics, 2022, 156, 116101.	3.0	10
150	Ion collection by a sphere in a flowing highly collisional plasma. Physics of Plasmas, 2007, 14, 034502.	1.9	9
151	Non-equilibrium phase transitions in complex plasma. Plasma Physics and Controlled Fusion, 2010, 52, 124042.	2.1	9
152	Complex Plasmas With Rodlike Particles. IEEE Transactions on Plasma Science, 2011, 39, 2732-2733.	1.3	9
153	Electron and ion thermal forces in complex (dusty) plasmas. Physics of Plasmas, 2013, 20, 013703.	1.9	9
154	Self-diffusion in single-component Yukawa fluids. Journal of Physics Communications, 2018, 2, 045013.	1.2	9
155	Freezing Temperature and Density Scaling of Transport Coefficients. Journal of Physical Chemistry Letters, 2022, 13, 2674-2678.	4.6	9
156	Freezing density scaling of fluid transport properties: Application to liquefied noble gases. Journal of Chemical Physics, 2022, 157, .	3.0	9
157	Measurements of the Dust-Ion Momentum Transfer Frequency and Ion Drag Force in Complex Plasmas. Contributions To Plasma Physics, 2005, 45, 223-228.	1.1	8
158	Ionization instability of ion-acoustic waves. Physics of Plasmas, 2010, 17, .	1.9	8
159	fcc-bcc-fluid triple point for model pair interactions with variable softness. Europhysics Letters, 2012, 100, 66004.	2.0	8
160	Theory of a cavity around a large floating sphere in complex (dusty) plasma. Physical Review E, 2019, 99, 053210.	2.1	8
161	Thermal conduction in two-dimensional complex plasma layers. Physics of Plasmas, 2021, 28, 010704.	1.9	8
162	Magnetized electron emission from a small spherical dust grain in fusion related plasmas. Physics of Plasmas, 2017, 24, .	1.9	8

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163	Dynamics of formation of ordered structures in a thermal plasma with macroparticles. Journal of Experimental and Theoretical Physics, 1999, 88, 460-464.	0.9	7
164	Dynamics and structural properties of dusty plasma liquid in microgravity: experiments onboard the International Space Station. Plasma Physics and Controlled Fusion, 2004, 46, B359-B366.	2.1	7
165	Response to â€œComment on â€˜Ion collection by a sphere in a flowing collisional plasmaâ€™â€•[Phys. Plasmas 14, 074701 (2007)]. Physics of Plasmas, 2007, 14, .	1.9	7
166	Effect of ionization/recombination processes on the electrical interactions between positively charged particles in highly collisional plasmas. Physics of Plasmas, 2010, 17, 034503.	1.9	7
167	Instantaneous shear modulus of Yukawa fluids across coupling regimes. Physics of Plasmas, 2020, 27, .	1.9	7
168	On the conductivity of moderately non-ideal completely ionized plasma. Results in Physics, 2020, 17, 103163.	4.1	7
169	Spatial distribution of dust density wave properties in fluid complex plasmas. Physical Review E, 2022, 105, 025202.	2.1	7
170	Ion Drag Force in Collisional Plasmas. IEEE Transactions on Plasma Science, 2009, 37, 487-493.	1.3	6
171	Floating potential of a small particle in a plasma: Difference between Maxwellian and Druyvesteyn electron velocity distributions. Physics of Plasmas, 2010, 17, 104502.	1.9	6
172	Freezing and melting equations for the n-6 Lennard-Jones systems. AIP Advances, 2016, 6, .	1.3	6
173	On the internal energy of the classical two-dimensional one-component-plasma. AIP Advances, 2015, 5, .	1.3	5
174	On the lower bound of the internal energy of the one-component-plasma. Physics of Plasmas, 2015, 22, 044504.	1.9	5
175	Ion drag in complex plasmas. AIP Conference Proceedings, 2002, , .	0.4	4
176	GrÃ¼neisen parameter for strongly coupled Yukawa systems. Physics of Plasmas, 2017, 24, .	1.9	4
177	Reduction of the Coulomb logarithm due to electron-neutral collisions. Physical Review E, 2020, 101, 061202.	2.1	4
178	Prandtl Number in Classical Hard-Sphere and One-Component Plasma Fluids. Molecules, 2021, 26, 821.	3.8	4
179	Approximation of the Mobility of Atomic Ions of Noble Gases in Their Parent Gas. High Temperature, 2020, 58, 545-549.	1.0	4
180	Anomalously high kinetic energy of charged macroparticles in a plasma. Journal of Experimental and Theoretical Physics, 1997, 85, 272-275.	0.9	3

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181	Transport of microparticles in weakly ionized gas-discharge plasmas under microgravity. Microgravity Science and Technology, 2005, 16, 311-316.	1.4	3
182	Publisherâ€™s Note: Structural properties of dense hard sphere packings [Phys. Rev. B83, 184105 (2011)]. Physical Review B, 2011, 83, .	3.2	3
183	Experimental determination of particle charge in highly collisional plasma. AIP Conference Proceedings, 2011, , .	0.4	3
184	Frequency dependence of microparticle charge in a radio frequency discharge with Margenau electron velocity distribution. Physics of Plasmas, 2011, 18, 014501.	1.9	3
185	An analytical force balance model for dust particles with size up to several Debye lengths. Physics of Plasmas, 2017, 24, 113702.	1.9	3
186	Single-crystal and polycrystalline diamond erosion studies in Pilot-PSI. Journal of Nuclear Materials, 2018, 500, 110-118.	2.7	3
187	Single particle dynamics in a radio-frequency produced plasma sheath. AIP Conference Proceedings, 2018, , .	0.4	3
188	Collective excitations in two-dimensional fluid with dipole-like repulsive interactions. Journal of Physics: Conference Series, 2019, 1348, 012097.	0.4	3
189	Sound Velocities of Generalized Lennard-Jones (n â^’ 6) Fluids Near Freezing. Molecules, 2021, 26, 1660.	3.8	3
190	To the optical properties of moderately non-ideal plasma. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 290, 108297.	2.3	3
191	Experimental determination of dust particle charge at elevated pressures. , 0, , .		2
192	Critical point and sound waves in complex plasmas. Physics of Plasmas, 2009, 16, 073706.	1.9	2
193	Universal properties of the melting curves for a wide class of interparticle interactions. , 2011, , .		2
194	Dust Density Waves in Weak Electric Fields: Effect of the Dust Number Density. IEEE Transactions on Plasma Science, 2013, 41, 2446-2450.	1.3	2
195	Energy of vacancy formation in the continuum matter model. Low Temperature Physics, 2013, 39, 465-467.	0.6	2
196	Formation of droplets in weightless complex plasmas. Contributions To Plasma Physics, 2021, 61, e202100081.	1.1	2
197	Grain Charge in the Bulk of Gas Discharges. AIP Conference Proceedings, 2005, , .	0.4	1
198	Ion drag force on an absorbing grain in highly collisional plasma in the presence of plasma production and loss processes. AIP Conference Proceedings, 2008, , .	0.4	1

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199	A Model for Grain Charging in Weakly Ionized Plasmas. AIP Conference Proceedings, 2008, , .	0.4	1
200	Properties of ion-particle interaction and the ion drag force in complex (dusty) plasmas. , 2009, , .		1
201	A note on the electrical potential distribution around a test charge in anisotropic collisional plasmas. Journal of Plasma Physics, 2010, 76, 603-606.	2.1	1
202	Interpenetration of two clouds of microparticles in complex plasma under microgravity conditions. AIP Conference Proceedings, 2011, , .	0.4	1
203	Freezing and melting of 3D complex plasma structures driven by neutral gas pressure manipulation in PK-3 Plus experiment. AIP Conference Proceedings, 2011, , .	0.4	1
204	Structural properties of dense hard sphere systems near random close packing. AIP Conference Proceedings, 2011, , .	0.4	1
205	Computational Prediction of Rate Constants for Reactions Involved in Al Clustering. Journal of Physical Chemistry A, 2017, 121, 8333-8340.	2.5	1
206	Comment on â€œShear modulus of two-dimensional Yukawa or dusty-plasma solids obtained from the viscoelasticity in the liquid stateâ€• Physical Review E, 2020, 101, 057201.	2.1	1
207	The "trampoline effect" and the distribution of forces inside the void region in complex plasmas under microgravity conditions. , 0, , .		0
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