

J Goree

List of Publications by Year in descending order

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111
papers

10,488
citations

28274

55
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30922

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111
all docs

111
docs citations

111
times ranked

2035
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma Crystal: Coulomb Crystallization in a Dusty Plasma. <i>Physical Review Letters</i> , 1994, 73, 652-655.	7.8	1,481
2	Dispersion of Plasma Dust Acoustic Waves in the Strong-Coupling Regime. <i>Physical Review Letters</i> , 1996, 77, 3137-3140.	7.8	514
3	Condensed Plasmas under Microgravity. <i>Physical Review Letters</i> , 1999, 83, 1598-1601.	7.8	444
4	Charging of particles in a plasma. <i>Plasma Sources Science and Technology</i> , 1994, 3, 400-406.	3.1	353
5	Superdiffusion and Non-Gaussian Statistics in a Driven-Dissipative 2D Dusty Plasma. <i>Physical Review Letters</i> , 2008, 100, 055003.	7.8	310
6	Instabilities in a dusty plasma with ion drag and ionization. <i>Physical Review E</i> , 1999, 59, 1047-1058.	2.1	309
7	Theory of dust voids in plasmas. <i>Physical Review E</i> , 1999, 59, 7055-7067.	2.1	270
8	Fluctuations of the charge on a dust grain in a plasma. <i>IEEE Transactions on Plasma Science</i> , 1994, 22, 151-158.	1.3	268
9	Experimental observation of very low-frequency macroscopic modes in a dusty plasma. <i>Physics of Plasmas</i> , 1996, 3, 1212-1219.	1.9	222
10	Mach Cones in a Coulomb Lattice and a Dusty Plasma. <i>Physical Review Letters</i> , 1999, 83, 3649-3652.	7.8	215
11	Shear Flows and Shear Viscosity in a Two-Dimensional Yukawa System (Dusty Plasma). <i>Physical Review Letters</i> , 2004, 93, 155004.	7.8	215
12	Rigid and differential plasma crystal rotation induced by magnetic fields. <i>Physical Review E</i> , 2000, 61, 1890-1898.	2.1	209
13	Polarized supersonic plasma flow simulation for charged bodies such as dust particles and spacecraft. <i>Physical Review E</i> , 1995, 52, 5312-5326.	2.1	197
14	Transverse Waves in a Two-Dimensional Screened-Coulomb Crystal (Dusty Plasma). <i>Physical Review Letters</i> , 2000, 84, 5141-5144.	7.8	193
15	Radiation pressure and gas drag forces on a melamine-formaldehyde microsphere in a dusty plasma. <i>Physics of Plasmas</i> , 2003, 10, 9-20.	1.9	192
16	Collisional plasma sheath model. <i>Physics of Fluids B</i> , 1991, 3, 2796-2804.	1.7	188
17	Accurate particle position measurement from images. <i>Review of Scientific Instruments</i> , 2007, 78, 053704.	1.3	182
18	Phonon Spectrum in a Plasma Crystal. <i>Physical Review Letters</i> , 2002, 89, 035001.	7.8	176

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19	Three-Dimensional Strongly Coupled Plasma Crystal under Gravity Conditions. <i>Physical Review Letters</i> , 2000, 85, 4064-4067.	7.8	159
20	Dispersion relations of longitudinal and transverse waves in two-dimensional screened Coulomb crystals. <i>Physical Review E</i> , 2002, 65, 066402.	2.1	154
21	Laser-excited Mach cones in a dusty plasma crystal. <i>Physical Review E</i> , 2000, 62, 4162-4176.	2.1	140
22	Structural analysis of a Coulomb lattice in a dusty plasma. <i>Physical Review E</i> , 1996, 53, R2049-R2052.	2.1	135
23	Ion trapping by a charged dust grain in a plasma. <i>Physical Review Letters</i> , 1992, 69, 277-280.	7.8	120
24	Mach cone shocks in a two-dimensional Yukawa solid using a complex plasma. <i>Physical Review E</i> , 2000, 61, 5557-5572.	2.1	113
25	Experimental studies of two-dimensional and three-dimensional structure in a crystallized dusty plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 519-524.	2.1	111
26	Three-dimensional structure in a crystallized dusty plasma. <i>Physical Review E</i> , 1996, 54, 5636-5640.	2.1	111
27	Heat Transport in a Two-Dimensional Complex (Dusty) Plasma at Melting Conditions. <i>Physical Review Letters</i> , 2008, 100, 025003.	7.8	108
28	Single-particle Langevin model of particle temperature in dusty plasmas. <i>Physical Review E</i> , 2000, 61, 3033-3041.	2.1	104
29	Laser method of heating monolayer dusty plasmas. <i>Physics of Plasmas</i> , 2006, 13, 032106.	1.9	104
30	Shear Viscosity of Two-Dimensional Yukawa Systems in the Liquid State. <i>Physical Review Letters</i> , 2005, 94, 185002.	7.8	100
31	Theory of collision-dominated dust voids in plasmas. <i>Physical Review E</i> , 2001, 63, 056609.	2.1	97
32	Transverse Optical Mode in a One-Dimensional Yukawa Chain. <i>Physical Review Letters</i> , 2003, 91, 255003.	7.8	91
33	Observation of Shear-Wave Mach Cones in a 2D Dusty-Plasma Crystal. <i>Physical Review Letters</i> , 2002, 88, 135001.	7.8	90
34	Solid Superheating Observed in Two-Dimensional Strongly Coupled Dusty Plasma. <i>Physical Review Letters</i> , 2008, 100, 205007.	7.8	83
35	Decharging of Complex Plasmas: First Kinetic Observations. <i>Physical Review Letters</i> , 2003, 90, 055003.	7.8	81
36	Acoustic modes in a collisional dusty plasma. <i>Physics of Plasmas</i> , 1999, 6, 741-750.	1.9	80

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37	Experimental test of two-dimensional melting through disclination unbinding. <i>Physical Review E</i> , 2001, 64, 051404.	2.1	78
38	Shear Viscosity and Shear Thinning in Two-Dimensional Yukawa Liquids. <i>Physical Review Letters</i> , 2006, 96, 145003.	7.8	77
39	Dust release from surfaces exposed to plasma. <i>Physics of Plasmas</i> , 2006, 13, 123504.	1.9	76
40	Errors in particle tracking velocimetry with high-speed cameras. <i>Review of Scientific Instruments</i> , 2011, 82, 053707.	1.3	76
41	Particle growth in a sputtering discharge. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 2835-2840.	2.1	75
42	Observation of Temperature Peaks due to Strong Viscous Heating in a Dusty Plasma Flow. <i>Physical Review Letters</i> , 2012, 109, 185002.	7.8	75
43	Test of the Stokes-Einstein Relation in a Two-Dimensional Yukawa Liquid. <i>Physical Review Letters</i> , 2006, 96, 015005.	7.8	72
44	Viscoelasticity of 2D Liquids Quantified in a Dusty Plasma Experiment. <i>Physical Review Letters</i> , 2010, 105, 025002.	7.8	72
45	Measurements of ion velocity and density in the plasma sheath. <i>Physics of Fluids B</i> , 1992, 4, 1663-1670.	1.7	68
46	Time-correlation functions and transport coefficients of two-dimensional Yukawa liquids. <i>Physical Review E</i> , 2009, 79, 026401.	2.1	66
47	Experimental investigation of particle heating in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2000, 7, 3904.	1.9	63
48	Ionization instabilities and resonant acoustic modes. <i>Physics of Plasmas</i> , 2001, 8, 5018-5024.	1.9	63
49	Cutoff Wave Number for Shear Waves in a Two-Dimensional Yukawa System (Dusty Plasma). <i>Physical Review Letters</i> , 2006, 97, 115001.	7.8	62
50	Observation of the spatial growth of self-excited dust-density waves. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	62
51	Green-Kubo relation for viscosity tested using experimental data for a two-dimensional dusty plasma. <i>Physical Review E</i> , 2011, 84, 046412.	2.1	62
52	Compressional and shear wakes in a two-dimensional dusty plasma crystal. <i>Physical Review E</i> , 2003, 68, 056409.	2.1	60
53	Phonons in a one-dimensional Yukawa chain: Dusty plasma experiment and model. <i>Physical Review E</i> , 2005, 71, 046410.	2.1	60
54	Nonlinear Compressional Pulses in a 2D Crystallized Dusty Plasma. <i>Physical Review Letters</i> , 2002, 88, 215002.	7.8	56

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55	Evolution of Shear-Induced Melting in a Dusty Plasma. <i>Physical Review Letters</i> , 2010, 104, 165003.	7.8	56
56	Long-range attractive and repulsive forces in a two-dimensional complex (dusty) plasma. <i>Physical Review E</i> , 2001, 63, 025401.	2.1	53
57	Non-Gaussian statistics and superdiffusion in a driven-dissipative dusty plasma. <i>Physical Review E</i> , 2008, 78, 046403.	2.1	50
58	Superdiffusion of two-dimensional Yukawa liquids due to a perpendicular magnetic field. <i>Physical Review E</i> , 2014, 90, 013105.	2.1	47
59	Cosmic dust synthesis by accretion and coagulation. <i>Astrophysical Journal</i> , 1995, 441, 830.	4.5	46
60	Experimental study of nonlinear solitary waves in two-dimensional dusty plasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	45
61	Acceleration and orbits of charged particles beneath a monolayer plasma crystal. <i>Physics of Plasmas</i> , 2002, 9, 4465-4472.	1.9	42
62	Mode Coupling for Phonons in a Single-Layer Dusty Plasma Crystal. <i>Physical Review Letters</i> , 2010, 105, 085004.	7.8	42
63	Nonlinear Interaction of Compressional Waves in a 2D Dusty Plasma Crystal. <i>Physical Review Letters</i> , 2004, 92, 085001.	7.8	41
64	Viscoelastic response of Yukawa liquids. <i>Physical Review E</i> , 2010, 81, 056404.	2.1	41
65	Nonlinear compressional waves in a two-dimensional Yukawa lattice. <i>Physical Review E</i> , 2003, 68, 046402.	2.1	38
66	Nonlinear longitudinal waves in a two-dimensional screened Coulomb crystal. <i>Physical Review E</i> , 2003, 68, 026407.	2.1	35
67	Laser-excited shear waves in solid and liquid two-dimensional dusty plasmas. <i>Physics of Plasmas</i> , 2006, 13, 042104.	1.9	35
68	Characterizing potentials using the structure of a one-dimensional chain demonstrated using a dusty plasma crystal. <i>Physical Review E</i> , 2004, 69, 036410.	2.1	34
69	Overestimation of Viscosity by the Green-Kubo Method in a Dusty Plasma Experiment. <i>Physical Review Letters</i> , 2017, 118, 195001.	7.8	34
70	Identifying anomalous diffusion and melting in dusty plasmas. <i>Physical Review E</i> , 2010, 82, 036403.	2.1	33
71	Line ratio imaging of a gas discharge. <i>IEEE Transactions on Plasma Science</i> , 1999, 27, 76-77.	1.3	30
72	Particle chains in a dilute dusty plasma with subsonic ion flow. <i>Physical Review E</i> , 2012, 85, 046409.	2.1	30

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73	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.	7.8	29
74	SHEAR VISCOSITY OF STRONGLY-COUPLED TWO-DIMENSIONAL YUKAWA LIQUIDS: EXPERIMENT AND MODELING. <i>Modern Physics Letters B</i> , 2007, 21, 1357-1376.	1.9	29
75	Development of nonlinearity in a growing self-excited dust-density wave. <i>Physics of Plasmas</i> , 2011, 18, 013705.	1.9	28
76	Synchronization mechanism and Arnold tongues for dust density waves. <i>Physical Review E</i> , 2012, 85, 046401.	2.1	27
77	Particle Interaction Measurements in a Coulomb Crystal Using Caged-Particle Motion. <i>Physical Review Letters</i> , 2002, 88, 195001.	7.8	26
78	Experimental determination of shock speed versus exciter speed in a two-dimensional dusty plasma. <i>Physical Review E</i> , 2020, 101, 043211.	2.1	26
79	Observations of particle layers levitated in a radio-frequency sputtering plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994, 12, 3137-3145.	2.1	25
80	Longitudinal viscosity of two-dimensional Yukawa liquids. <i>Physical Review E</i> , 2013, 87, 013106.	2.1	25
81	Experimental observation of cnoidal waveform of nonlinear dust acoustic waves. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	24
82	Positive charging of grains in an afterglow plasma is enhanced by ions drifting in an electric field. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	23
83	Frequency-dependent shear viscosity of a liquid two-dimensional dusty plasma. <i>Physical Review E</i> , 2012, 85, 066402.	2.1	22
84	Energy transport in a shear flow of particles in a two-dimensional dusty plasma. <i>Physical Review E</i> , 2012, 86, 056403.	2.1	22
85	Diagnostics for transport phenomena in strongly coupled dusty plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124004.	2.1	22
86	Temperature dependence of viscosity in a two-dimensional dusty plasma without the effects of shear thinning. <i>Physics of Plasmas</i> , 2016, 23, 093703.	1.9	20
87	Pressure of two-dimensional Yukawa liquids. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 235203.	2.8	20
88	Viscosity calculated in simulations of strongly coupled dusty plasmas with gas friction. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	19
89	Waves and oscillations in plasma crystals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 533-543.	1.5	18
90	Experimental measurement of velocity correlations for two microparticles in a plasma with ion flow. <i>Physical Review E</i> , 2014, 90, 013102.	2.1	18

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91	Bispectral analysis of nonlinear compressional waves in a two-dimensional dusty plasma crystal. <i>Physical Review E</i> , 2006, 73, 016401.	2.1	16
92	Transverse oscillations in a single-layer dusty plasma under microgravity. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	16
93	Dispersion relations for the dust-acoustic wave under experimental conditions. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	16
94	Particle position and velocity measurement in dusty plasmas using particle tracking velocimetry. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	16
95	Preservation of a Dust Crystal as it Falls in an Afterglow Plasma. <i>Frontiers in Physics</i> , 0, 10, .	2.1	14
96	Determination of yield stress of 2D (Yukawa) dusty plasma. <i>Physics of Plasmas</i> , 2017, 24, 103702.	1.9	13
97	Correlation and spectrum of dust acoustic waves in a radio-frequency plasma using PK-4 on the International Space Station. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	13
98	Effect of electrostatic plasma oscillations on the kinetic energy of a charged macroparticle. <i>Physics of Plasmas</i> , 2006, 13, 012111.	1.9	11
99	Shocks propagate in a 2D dusty plasma with less attenuation than due to gas friction alone. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	10
100	Polygon construction to investigate melting in two-dimensional strongly coupled dusty plasma. <i>Physical Review E</i> , 2011, 83, 066402.	2.1	9
101	Dusty plasma diagnostics methods for charge, electron temperature, and ion density. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	8
102	Mobility in a strongly coupled dusty plasma with gas. <i>Physical Review E</i> , 2014, 89, 043107.	2.1	7
103	Shock width measured under liquid and solid conditions in a two-dimensional dusty plasma. <i>Physical Review E</i> , 2021, 104, 055201.	2.1	7
104	Fluctuation theorem convergence in a viscoelastic medium demonstrated experimentally using a dusty plasma. <i>Physical Review E</i> , 2021, 104, 035207.	2.1	6
105	Monolayer Plasma Crystals. , 2000, , 91-97.		6
106	Dusty plasma experiment to confirm an expression for the decay of autocorrelation functions. <i>Physical Review E</i> , 2018, 98, 023201.	2.1	5
107	Experiment and model for a Stokes layer in a strongly coupled dusty plasma. <i>Physical Review E</i> , 2021, 104, 035208.	2.1	5
108	Perpendicular diffusion of a dilute beam of charged dust particles in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	4

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109	Coupling of an acoustic wave to shear motion due to viscous heating. <i>Physics of Plasmas</i> , 2016, 23, 073707.	1.9	4
110	Multiple timescales in a strongly coupled dusty plasma revealed by survival-function analysis. <i>Physical Review E</i> , 2018, 98, .	2.1	4
111	Frequency-dependent complex viscosity obtained for a liquid two-dimensional dusty plasma experiment. <i>Physical Review E</i> , 2022, 105, 015209.	2.1	1