

Rajaraman Ganesh

List of Publications by Year in descending order

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89
papers

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840776
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docs citations

90
times ranked

302
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of directed motion in a 2D system of Yukawa particles on 1D Ratchet. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 593, 126913.	2.6	3
2	Numerical Simulation Of A Bi-directional Plasma Thruster For Space Debris Removal. <i>Journal of Plasma Physics</i> , 2022, 88, .	2.1	4
3	Long time fate of two-dimensional incompressible high Reynolds number Navier–Stokes turbulence: A quantitative comparison between theory and simulation. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
4	10.1063/5.0092212.2. , 2022, , .		0
5	10.1063/5.0092212.4. , 2022, , .		0
6	10.1063/5.0092212.3. , 2022, , .		0
7	Effect of parallel connection length on the properties of a low-temperature plasma confined in a current-less toroidal device. <i>Indian Journal of Physics</i> , 2021, 95, 989-1002.	1.8	0
8	Landau damping in one dimensional periodic inhomogeneous collisionless plasmas. <i>AIP Advances</i> , 2021, 11, 025229.	1.3	4
9	Effect of external magnetic field on lane formation in driven pair-ion plasmas. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	4
10	A novel quiescent quasi-steady state of a toroidal electron plasma. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	6
11	Phase of particle-level velocity perturbations determines the fate of Rayleigh–Bénard convection cells in 2D Yukawa liquids. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	2
12	Effect of in-plane shear flow on the magnetic island coalescence instability. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
13	Trapped particle instability in : II inhomogeneous Vlasov plasmas. <i>Physica Scripta</i> , 2021, 96, 125615.	2.5	4
14	Trapped particle instability in : I homogeneous Vlasov plasmas. <i>Physica Scripta</i> , 2021, 96, 125616.	2.5	5
15	Spot formation in three-dimensional Yukawa liquid. <i>Physics of Fluids</i> , 2021, 33, .	4.0	2
16	Self-organization of pure electron plasma in a partially toroidal magnetic-electrostatic trap: A 3D particle-in-cell simulation. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	3
17	Lane dynamics in pair-ion plasmas: effect of obstacle and geometric aspect ratio. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	1
18	Effect of particle mass inhomogeneity on the two-dimensional Rayleigh–Bénard system of Yukawa liquids: A molecular dynamics study. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	1

#	ARTICLE	IF	CITATIONS
19	Lane formation in driven pair-ion plasmas. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	9
20	Double layer formation and thrust generation in an expanding plasma using 1D-3V PIC simulation. <i>Physics of Plasmas</i> , 2020, 27, 093505.	1.9	4
21	The emergence of inertial waves from coherent vortex source in strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2020, 27, 050701.	1.9	4
22	Finite $\hat{\nu}^2$ effects on short wavelength ion temperature gradient modes. <i>Physics of Plasmas</i> , 2020, 27, 052509.	1.9	3
23	Phase transition and emergence of active temperature in an active Brownian system in underdamped background. <i>Physical Review E</i> , 2020, 101, 032121.	2.1	13
24	Driven electrostatic phase space vortices in a 1D weakly dissipative Vlasov-Poisson system. <i>Physics of Plasmas</i> , 2020, 27, 032107.	1.9	1
25	Evidence for neutrals carrying ion-acoustic wave momentum in a partially ionized plasma. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	6
26	Role of multi-cusp magnetic field on plasma containment. <i>Plasma Research Express</i> , 2020, 2, 045001.	0.9	3
27	Compressibility effects on quasistationary vortex and transient hole patterns through vortex merger. <i>Physica Scripta</i> , 2019, 94, 115005.	2.5	2
28	Response to "Comment on "Symmetry in electron and ion dispersion in 1D Vlasov-Poisson plasma" [Phys. Plasmas 26, 064701 (2019)]. <i>Physics of Plasmas</i> , 2019, 26, 064702.	1.9	1
29	Negative entropy-production rate in Rayleigh-Bénard convection in two-dimensional Yukawa liquids. <i>Physical Review E</i> , 2019, 100, 053201.	2.1	5
30	Observation of toroidal acoustic mode in a current-less toroidal plasma. <i>Physics of Plasmas</i> , 2019, 26, 072307.	1.9	0
31	Coherent nonlinear oscillations in magnetohydrodynamic plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	1
32	Viscoelastic effects on asymmetric two-dimensional vortex patterns in a strongly coupled dusty plasma. <i>Contributions To Plasma Physics</i> , 2019, 59, e201800189.	1.1	4
33	Recurrence in three dimensional magnetohydrodynamic plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	4
34	Dynamics of a toroidal pure electron plasma using 3D PIC simulations. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	3
35	Compressibility effects on a shear flow in strongly coupled dusty plasma. I. A study using computational fluid dynamics. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	7
36	Compressible Kolmogorov flow in strongly coupled dusty plasma using molecular dynamics and computational fluid dynamics. II. A comparative study. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	6

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37	A new multi-line cusp magnetic field plasma device (MPD) with variable magnetic field. Review of Scientific Instruments, 2018, 89, 043510.	1.3	9
38	Supersonic flows past an obstacle in Yukawa liquids. Physics of Plasmas, 2018, 25, .	1.9	7
39	Symmetry in electron and ion dispersion in 1D Vlasov-Poisson plasma. Physics of Plasmas, 2018, 25, 112102.	1.9	11
40	Experimental observation of drift wave turbulence in an inhomogeneous six-pole cusp magnetic field of MPD. Physics of Plasmas, 2018, 25, 112114.	1.9	3
41	Coherent phase space structures in a 1D electrostatic plasma using particle-in-cell and Vlasov simulations: A comparative study. Physics of Plasmas, 2018, 25, .	1.9	8
42	Destabilization of a cylindrically confined electron cloud by impact ionization of background neutrals: 2D3v PIC simulation with Monte-Carlo-collisions. Physics of Plasmas, 2017, 24, .	1.9	8
43	Driven phase space vortices in plasmas with nonextensive velocity distribution. Physics of Plasmas, 2017, 24, .	1.9	9
44	Isothermal equation of state of three dimensional Yukawa gas. Physics of Plasmas, 2017, 24, .	1.9	9
45	Chirp-driven giant phase space vortices. Physics of Plasmas, 2016, 23, 062112.	1.9	11
46	Strongly correlated classical plasmas under external forcing and dissipation - an example using Molecular Dynamics. Journal of Physics: Conference Series, 2016, 759, 012061.	0.4	0
47	Molecular dynamics study of flow past an obstacle in strongly coupled Yukawa liquids. Physics of Plasmas, 2016, 23, .	1.9	10
48	Molecular shear heating and vortex dynamics in thermostatted two dimensional Yukawa liquids. Physics of Plasmas, 2016, 23, .	1.9	7
49	Influence of electron-neutral elastic collisions on the instability of an ion-contaminated cylindrical electron cloud: 2D3V PIC-with-MCC simulations. Physics of Plasmas, 2016, 23, 102111.	1.9	7
50	Plasma heating via adiabatic magnetic compression-expansion cycle. Physics of Plasmas, 2016, 23, 062514.	1.9	1
51	Effect of magnetic field topology on quasi-stationary equilibrium, fluctuations, and flows in a simple toroidal device. Physics of Plasmas, 2016, 23, .	1.9	8
52	Kolmogorov flow in two dimensional strongly coupled Yukawa liquid: A molecular dynamics study. Physics of Plasmas, 2015, 22, .	1.9	9
53	Inertia driven radial breathing and nonlinear relaxation in cylindrically confined pure electron plasma. AIP Conference Proceedings, 2015, , .	0.4	6
54	A simple experimental method to determine magnetic field topology in toroidal plasma devices. Review of Scientific Instruments, 2015, 86, 033504.	1.3	5

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55	Linear and nonlinear evolution of the ion resonance instability in cylindrical traps: A numerical study. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	12
56	Observation of the Rayleigh-Bénard convection cells in strongly coupled Yukawa liquids. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	8
57	A molecular dynamics study of phase transition in strongly coupled pair-ion plasmas. <i>Physics of Plasmas</i> , 2015, 22, 082116.	1.9	5
58	Inertia driven radial breathing and nonlinear relaxation in cylindrically confined pure electron plasma. <i>Physics of Plasmas</i> , 2014, 21, 022116.	1.9	10
59	Kolmogorov flow in two dimensional strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2014, 21, 073707.	1.9	11
60	Molecular dynamics of Yukawa liquids in gravitation: Equilibrium, Instability and Transport. <i>Journal of Plasma Physics</i> , 2014, 80, 895-917.	2.1	1
61	Properties of gravitationally equilibrated Yukawa systems—A molecular dynamics study. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	10
62	Global gyrokinetic stability of collisionless microtearing modes in large aspect ratio tokamaks. <i>Physics of Plasmas</i> , 2014, 21, 082513.	1.9	23
63	Role of Trapped Electrons on Global Gyrokinetic Linear Stability of Collisionless Microtearing Modes. <i>Journal of Physics: Conference Series</i> , 2014, 561, 012017.	0.4	7
64	Fluctuations and intermittent poloidal transport in a simple toroidal plasma. <i>Physics of Plasmas</i> , 2013, 20, 072308.	1.9	2
65	Dense strongly coupled plasma in double laser pulse ablation of lithium: Experiment and simulation. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	8
66	Nonlinear Landau damping and formation of Bernstein-Greene-Kruskal structures for plasmas with q-nonextensive velocity distributions. <i>Physics of Plasmas</i> , 2013, 20, 032106.	1.9	13
67	Nature of energetic ion transport by ion temperature gradient driven turbulence and size scaling. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	8
68	Coherent to turbulence transition, enhanced flow and confinement in a simple toroidal plasma. <i>Physics of Plasmas</i> , 2012, 19, 032307.	1.9	7
69	Short wavelength ion temperature gradient turbulence. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	10
70	Role of ion mass in the generation of fluctuations and poloidal flows in a simple toroidal plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	2
71	A molecular dynamics study of dipolar vortices in strongly coupled Yukawa liquids. <i>Physics of Fluids</i> , 2012, 24, 092002.	4.0	1
72	Coherent Vortices in Strongly Coupled Liquids. <i>Physical Review Letters</i> , 2011, 106, 135001.	7.8	22

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73	Role of fluctuations and flows in sustaining mean profiles in a current less toroidal plasma. Physics of Plasmas, 2011, 18, 042310.	1.9	7
74	Coevolution of inverse cascade and nonlinear heat front in shear flows of strongly coupled Yukawa liquids. Physics of Plasmas, 2011, 18, 083704.	1.9	3
75	Radial transport of energetic ions in the presence of trapped electron mode turbulence. Physics of Plasmas, 2011, 18, .	1.9	8
76	Sluggish response of untrapped electrons and global electrostatic micro-instabilities in a tokamak. Journal of Physics: Conference Series, 2010, 208, 012058.	0.4	4
77	Toroidal universal drift instability: A global gyrokinetic study. Physics of Plasmas, 2010, 17, 102105.	1.9	9
78	Parallel shear flow instabilities in strongly coupled Yukawa liquids: A comparison of generalized hydrodynamic model and molecular dynamics results. Physics of Plasmas, 2010, 17, 103706.	1.9	7
79	Kelvin Helmholtz Instability in Strongly Coupled Yukawa Liquids. Physical Review Letters, 2010, 104, 215003.	7.8	50
80	Effect of external drive on strongly coupled Yukawa systems: A nonequilibrium molecular dynamics study. Physical Review E, 2009, 80, 056408.	2.1	17
81	A comprehensive gyrokinetic description of global electrostatic microinstabilities in a tokamak. Physics of Plasmas, 2009, 16, 052507.	1.9	9
82	Short wavelength ion temperature gradient mode and coupling with trapped electrons. Physics of Plasmas, 2009, 16, .	1.9	9
83	COHERENT STRUCTURES IN TOROIDAL ELECTRON PLASMAS: SIMULATION AND EXPERIMENTS. , 2007, , .		2
84	Electron Plasmas in a Small Aspect Ratio Toroidal Experiment. AIP Conference Proceedings, 2006, , .	0.4	2
85	Global Gyrokinetic Stability of Pressure-Gradient-Driven Electromagnetic Modes in Tokamaks with Regions of Low Shear. Physical Review Letters, 2005, 94, 145002.	7.8	13
86	A full radius gyrokinetic stability analysis for large aspect ratio finite- \hat{I}^2 tokamaks. Physics of Plasmas, 2004, 11, 3106-3130.	1.9	15
87	Formation of quasistationary vortex and transient hole patterns through vortex merger. Physics of Plasmas, 2002, 9, 4551-4559.	1.9	9
88	Dynamics of uniform vortex patch with a point vortex. IEEE Transactions on Plasma Science, 2002, 30, 6-7.	1.3	4
89	Statistical mechanics of charged rings. Physics of Plasmas, 1996, 3, 22-28.	1.9	3