Ram Prasad Prajapati

List of Publications by Year
in descending order

30	370	840776 11	839539 18
papers	citations	h-index	g-index

30	30	30	98
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-gravitational instability of rotating viscous Hall plasma withÂarbitrary radiative heat-loss functions and electron inertia. Astrophysics and Space Science, 2010, 327, 139-154.	1.4	48
2	Influence of dust charge fluctuation and polarization force on radiative condensation instability of magnetized gravitating dusty plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2723-2729.	2.1	31
3	Effect of Hall current on the Jeans instability of magnetized viscous quantum plasma. Physica Scripta, 2010, 82, 055003.	2.5	30
4	Self-gravitating rotating anisotropic pressure plasma in presence of Hall current and electrical resistivity using generalized polytrope laws. Physics of Plasmas, 2008, 15, .	1.9	27
5	Self-gravitational instability of rotating anisotropic heat-conducting plasma. Physics of Plasmas, 2008, 15, .	1.9	26
6	Self-gravitational instability in magnetized finitely conducting viscoelastic fluid. Astrophysics and Space Science, 2013, 344, 371-380.	1.4	24
7	Low frequency waves and gravitational instability in homogeneous magnetized gyrotropic quantum plasma. Physics of Plasmas, 2014, 21, .	1.9	17
8	Effect of dust temperature on radiative condensation instability of self-gravitating magnetized dusty plasma. Physica Scripta, 2010, 81, 045501.	2.5	13
9	Effect of quantum corrections on the Jeans instability of self-gravitating viscoelastic dusty fluid. Astrophysics and Space Science, 2014, 350, 637-644.	1.4	12
10	Gravitational instability in radiative molecular clouds including cosmic ray diffusion and ion Larmor radius corrections. Monthly Notices of the Royal Astronomical Society, 2021, 510, 2127-2138.	4.4	12
11	Jeans instability of self-gravitating magnetized strongly coupled plasma. Journal of Physics: Conference Series, 2012, 365, 012040.	0.4	11
12	The rotating Rayleigh-Taylor instability in a strongly coupled dusty plasma. Physics of Plasmas, 2018, 25, .	1.9	11
13	Effect of pressure anisotropy and flow velocity on Kelvinâ€“Helmholtz instability of anisotropic magnetized plasma using generalized polytrope laws. Physics of Plasmas, 2010, 17, .	1.9	10
14	Effect of different dust flow velocities on combined Kelvin-Helmholtz and Rayleigh-Taylor instabilities in magnetized incompressible dusty fluids. Physics of Plasmas, 2016, 23, .	1.9	10
15	Jeans instability in collisional strongly coupled dusty plasma with radiative condensation and polarization force. Physics of Plasmas, 2016, 23, 053703.	1.9	10
16	Rayleigh-Taylor instability in non-uniform magnetized rotating strongly coupled viscoelastic fluid. Physics of Plasmas, 2016, 23, .	1.9	10
17	Radiative-condensation instability in gravitating strongly coupled dusty plasma with polarization force. Astrophysics and Space Science, 2015, 357, 1.	1.4	9
18	Rayleigh-Taylor instability and internal waves in strongly coupled quantum plasma. Physics of Plasmas, 2017, 24, 112101.	1.9	9

#	Article	IF	Citations
19	Effects of radiation pressure and polarization force on Jeans instability in magnetized strongly coupled dusty plasma. Physica Scripta, 2019, 94, 045603.	2.5	8
20	Small amplitude waves and linear firehose and mirror instabilities in rotating polytropic quantum plasma. Physics of Plasmas, 2017, 24, .	1.9	7
21	Gravitational instability of rotating magnetized quantum anisotropic plasma. Journal of Plasma Physics, 2017, 83, .	2.1	5
22	Influence of neutrino beam on the Jeans instability in a magnetized quantum plasma. Physics of Plasmas, 2017, 24, .	1.9	5
23	Effects of Hall current and electrical resistivity on the stability of gravitating anisotropic quantum plasma. Physics of Plasmas, 2018, 25, 022101.	1.9	5
24	Kelvinâ€“Helmholtz instability in sheared dusty plasma flows including dust polarization and ion drag forces. Physica Scripta, 2022, 97, 065603.	2.5	5
25	Effects of cosmic radiation pressure on the gravitational instability of rotating plasmas. Journal of Astrophysics and Astronomy, 2022, 43, .	1.0	4
26	Influence of Polarization Force on Jeans Instability of Magnetized Dusty Plasma. , 2011, , .		3
27	Suppression of the Kelvinâ€“Helmholtz instability due to polarization force in nonuniform magnetized sheared dusty plasmas. AIP Advances, 2021, 11, 095202.	1.3	3
28	Gravitational instability with dust charge gradient and ion drag forces in unmagnetized dusty plasma. Physica Scripta, 2021, 96, 025601.	2.5	2
29	Effects of heat-flux vector and Braginskii viscosity on wave dissipation and instabilities in rotating gravitating anisotropic plasmas. European Physical Journal Plus, 2022, 137, 1.	2.6	2
30	Dissipation of hydromagnetic waves in the viscous polytropic zone of the solar wind including FLR corrections, ohmic diffusion, and the Hall effect. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1444-1458.	4.4	1