

# Avinash khare

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

233  
citations

933447

10  
h-index

1058476

14  
g-index

30  
all docs

30  
docs citations

30  
times ranked

147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the ion drag force in a collisionless plasma with strong ion-grain coupling. Physics of Plasmas, 2007, 14, .	1.9	29
2	Equation of state for the "electrostatic pressure" in dusty plasmas. Physics of Plasmas, 2006, 13, 012109.	1.9	20
3	Dust cluster explosion. Physics of Plasmas, 2012, 19, .	1.9	17
4	Thermodynamics of the interconversion of heat and work via plasma electric fields. Physics of Plasmas, 2010, 17, .	1.9	14
5	Magnetic structures in the heliosheath. Geophysical Research Letters, 2007, 34, .	4.0	13
6	Thermal energy density of dust in dusty plasmas: Experiment and theory. Physical Review E, 2013, 88, 031101.	2.1	13
7	Theory of charged dust clouds: Equilibrium. Physics of Plasmas, 2007, 14, 012904.	1.9	12
8	Mean-Field Theory of Critical Phenomenon for Mutually Repelling Particles in Complex Plasmas. Physical Review Letters, 2007, 98, 095003.	7.8	12
9	Plasma heat pump and heat engine. Physics of Plasmas, 2010, 17, 082105.	1.9	12
10	Coulomb fission of a dusty plasma. Physics of Plasmas, 2016, 23, .	1.9	12
11	Theory of correlation effects in dusty plasmas. Physics of Plasmas, 2015, 22, 033701.	1.9	9
12	Isothermal equation of state of three dimensional Yukawa gas. Physics of Plasmas, 2017, 24, .	1.9	9
13	Parametric instabilities in strongly correlated plasma. Physics of Plasmas, 2016, 23, 102704.	1.9	7
14	Effect of ion drag on Jean's instability in dusty plasma. Physics of Plasmas, 2018, 25, 114503.	1.9	7
15	Suppression of stimulated Brillouin instability of a beat-wave of two lasers in multiple-ion-species plasmas. Physics of Plasmas, 2016, 23, 012110.	1.9	6
16	Coulomb explosion and fission of charged dust clusters. AIP Conference Proceedings, 2018, , .	0.4	6
17	An energy principle for the stability of charged dust cloud. Physics of Plasmas, 2007, 14, .	1.9	5
18	Plasma Heating by Electric Field Compression. Physical Review Letters, 2014, 112, 185002.	7.8	5

#	ARTICLE	IF	CITATIONS
19	Oscillating two-stream instability in strongly coupled plasma. Laser and Particle Beams, 2018, 36, 376-383.	1.0	5
20	Equilibrium configuration of self-gravitating charged dust clouds: Particle approach. Physics of Plasmas, 2019, 26, .	1.9	5
21	Avinashâ€™Shukla mass limit for the maximum dust mass supported against gravity by electric fields. Journal of Plasma Physics, 2010, 76, 493-500.	2.1	4
22	Laser-pulse shape effects on magnetic field generation in underdense plasmas. Indian Journal of Physics, 2018, 92, 919-925.	1.8	4
23	Relativistic electron-beam assisted growth of oscillating two-stream instability of a plasma wave. Physics of Plasmas, 2017, 24, .	1.9	3
24	Equilibrium and stability of a gravitationally bound uniformly charged dust cloud. Physics of Plasmas, 2017, 24, 053703.	1.9	2
25	Transient self-focusing of an intense laser pulse in magnetized plasmas under non-paraxial approximation. Laser and Particle Beams, 2013, 31, 307-312.	1.0	1
26	Inter-conversion of Work and Heat With Plasma Electric Fields. , 2010, , .		0
27	Dust clusters in complex plasmas. , 2014, , .		0
28	Interaction physics for the stimulated Brillouin scattering of a laser in laser driven fusion. , 2014, , .		0
29	Thermodynamic processes in dusty plasma. Journal of Plasma Physics, 2020, 86, .	2.1	0