Shikha Misra

List of Publications by Year
in descending order

42	564	623734 14	677142 22
papers	citations	h-index	g-index

42	42	42	185
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Charging of dust particles in an illuminated open complex plasma system. Physics of Plasmas, 2009, 16, 123705.	1.9	57
2	Generation and accretion of electrons in complex plasmas with cylindrical particles. Physics of Plasmas, 2009, 16, 123701.	1.9	40
3	Growth of embryonic dust particles in a complex plasma. Journal of Applied Physics, 2010, 107, .	2.5	38
4	Kinetics of complex plasmas having spherical dust particles with a size distribution. Physics of Plasmas, 2010, 17, 113705.	1.9	36
5	Focusing of a dark hollow Gaussian electromagnetic beam in a magnetoplasma. Journal of Plasma Physics, 2009, 75, 731-748.	2.1	30
6	Thermionic emission from monolayer graphene, sheath formation and its feasibility towards thermionic converters. Journal of Applied Physics, 2017, 121, .	2.5	28
7	Fluctuation of charge on dust particles in a complex plasma. Physics of Plasmas, 2010, 17, 073705.	1.9	23
8	Kinetics of illuminated complex plasmas considering Mie scattering by spherical dust particles with a size distribution. Journal of Applied Physics, 2011, 109, .	2.5	23
9	Charge distribution over dust particles in a flowing plasma. Physics of Plasmas, 2011, 18, .	1.9	19
10	On focusing of a ring ripple on a Gaussian electromagnetic beam in a plasma. Physics of Plasmas, 2008, 15, .	1.9	18
11	Photo-assisted electron emission from illuminated monolayer graphene. Journal of Applied Physics, 2017, 121, .	2.5	18
12	Statistical mechanics of the distribution of charge on particles in complex plasmas. Physica Scripta, 2011, 83, 015502.	2.5	17
13	Nonlinear dependence of complex plasma parameters on applied electric field. Physics of Plasmas, 2011, 18, .	1.9	17
14	Hysteresis in photoelectric charging of dust particles in a complex plasma. Physics of Plasmas, 2010, 17, 053706.	1.9	14
15	Charging kinetics of dust particles in a non-Maxwellian Lorentzian plasma. European Physical Journal D, 2013, 67, 1.	1.3	14
16	Experimental and simulation analysis of dielectric barrier discharge based pulsed cold atmospheric pressure plasma jet. Physics of Plasmas, 2020, 27, .	1.9	14
17	Charging kinetics of dust in interplanetary space plasma. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2985-2993.	4.4	13
18	Charging of ice grains in Saturnâ€™s E ring: theory and observations. Monthly Notices of the Royal Astronomical Society, 2012, 423, 176-184.	4.4	12

#	Article	IF	Citations
19	Kinetics of polar mesospheric plasma layers: Comparison of theoretical results with observations. Physics of Plasmas, 2011, 18, 083708.	1.9	11
20	Quantum effects in electron emission from and accretion on negatively charged spherical particles in a complex plasma. Physics of Plasmas, 2012, 19, 073705.	1.9	11
21	Statistical charge distribution over dust particles in a non-Maxwellian Lorentzian plasma. Physics of Plasmas, 2014, 21, 073706.	1.9	11
22	Modified theory of secondary electron emission from spherical particles and its effect on dust charging in complex plasma. Physics of Plasmas, 2013, 20, 013702.	1.9	10
23	Ring formation in electromagnetic beams propagating in a magnetoplasma. Journal of Plasma Physics, 2009, 75, 769-785.	2.1	9
24	Effect of electron-ion recombination on self-focusing/defocusing of a laser pulse in tunnel ionized plasmas. Laser and Particle Beams, 2014, 32, 21-31.	1.0	9
25	Self-focusing of a Gaussian electromagnetic beam in a complex plasma. Physics of Plasmas, 2011, 18, 043702.	1.9	8
26	Self-focusing of a Gaussian electromagnetic beam in a multi-ions plasma. Physics of Plasmas, 2013, 20, 103105.	1.9	8
27	Thermal defocusing of intense hollow Gaussian laser beams in atmosphere. Laser and Particle Beams, 2013, 31, 403-410.	1.0	8
28	Coaxial propagation of Laguerreâ€“Gaussian (LG) and Gaussian beams in a plasma. Laser and Particle Beams, 2015, 33, 123-133.	1.0	8
29	Effect of electron accretion by quantum tunneling on charging of dust particles in complex plasmas. Physics of Plasmas, 2012, 19, .	1.9	7
30	Focusing of a ring ripple on a Gaussian electromagnetic beam in a magnetoplasma. Journal of Plasma Physics, 2009, 75, 545-561.	2.1	5
31	Three region model and quantum enhancement of thermionic and photoelectric electron emission from negatively charged metallic surfaces. Canadian Journal of Physics, 2012, 90, 265-275.	1.1	4
32	Kinetics of complex plasma with liquid droplets. Physics of Plasmas, 2013, 20, .	1.9	4
33	Charging and de-charging of dust particles in bulk region of a radio frequency discharge plasma. Physics of Plasmas, 2013, 20, 033705.	1.9	4
34	Statistical mechanics of dust charging in a multi-ion plasma with negative and positive ionic species. Physics of Plasmas, 2015, 22, 023705.	1.9	4
35	Charge distribution over dust particles configured with size distribution in a complex plasma. European Physical Journal D, 2016, 70, 1.	1.3	3
36	Self-focusing of coaxial electromagnetic beams in a plasma with electron temperature dependent electron-ion recombination coefficient. Optics Communications, 2017, 385, 71-77.	2.1	3

#	Article	IF	Citations
37	Charge Distribution in Mesospheric Clouds. AIP Conference Proceedings, 2011, , .	0.4	2
38	Propagation of short pulses in a non-uniform gas-jet induced plasma. Optics Communications, 2017, 402, 186-192.	2.1	1
39	Kinetics of laser irradiated nanoparticles cloud. Physics of Plasmas, 2018, 25, 023703.	1.9	1
40	Transport properties of complex plasma having a dust size distribution. Physics of Plasmas, 2019, 26, 023702.	1.9	1
41	Characteristics of metal sputtered particle in pseudospark discharge plasma. Indian Journal of Physics, 2022, 96, 3665-3674.	1.8	1
42	Secondary Electron Emission from Cylindrical Particles. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2016, 86, 75-79.	1.2	0