Amar Prasad Misra

List of Publications by Year
in descending order

105	2,199	186265 28	289244 40
papers	citations	h-index	g-index

108	108	108	689
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wave-particle interactions in quantum plasmas. Reviews of Modern Plasma Physics, 2022, 6, 1.	4.1	7
2	Drift ion-acoustic waves in a nonuniform rotating magnetoplasma with two-temperature superthermal electrons. Physica Scripta, 2022, 97, 045603.	2.5	1
3	Nonlinear evolution of internal gravity waves in the Earthâ€™s ionosphere: Analytical and numerical approach. Advances in Space Research, 2022, 69, 3374-3385.	2.6	5
4	Internal Gravity Waves in the Earthâ€™s Ionosphere. IEEE Transactions on Plasma Science, 2022, 50, 2603-2608.	1.3	4
5	Effects of Coriolis force on the nonlinear interactions of acoustic-gravity waves in the atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 222, 105722.	1.6	8
6	Optical surface plasmons at a metal-crystal interface with the Drude-Lorentz model for material permittivity. Physica Scripta, 2021, 96, 015601.	2.5	5
7	Internal Gravity Waves in the Earth's Ionosphere. , 2021, , .		0
8	Landau damping of electron-acoustic waves due to multi-plasmon resonances. Physics of Plasmas, 2021, 28, .	1.9	6
9	Generation of wakefields and electromagnetic solitons in relativistic degenerate plasmas. Physica Scripta, 2020, 95, 015603.	2.5	7
10	Large amplitude electromagnetic solitons in a fully relativistic magnetized electron-positron-pair plasma. Advances in Space Research, 2020, 66, 2265-2273.	2.6	5
11	Synchronization in networks of coupled hyperchaotic CO₂ lasers. Physica Scripta, 2020, 95, 045225.	2.5	10
12	Stability and evolution of electromagnetic solitons in relativistic degenerate laser plasmas. Journal of Plasma Physics, 2020, 86, .	2.1	4
13	Dynamical properties of acoustic-gravity waves in the atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 186, 78-81.	1.6	34
14	Degenerating the butterfly attractor in a plasma perturbation model using nonlinear controllers. Chaos, Solitons and Fractals, 2019, 122, 58-68.	5.1	30
15	Polarized Debye Sheath in Degenerate Plasmas. Communications in Theoretical Physics, 2019, 71, 1341.	2.5	2
16	Chaos-based image encryption using vertical-cavity surface-emitting lasers. Optik, 2019, 176, 119-131.	2.9	44
17	Dust-acoustic solitary waves and shocks in nonthermal plasmas. , 2019, , .		0
18	Characteristics of solitary waves in a relativistic degenerate ion beam driven magneto plasma. Physics of Plasmas, 2018, 25, .	1.9	12

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19	Surface plasmon oscillations in a semi-bounded semiconductor plasma. Plasma Science and Technology, 2018, 20, 025001.	1.5	5
20	Nonlinear ion-acoustic solitary waves in an electron-positron-ion plasma with relativistic positron beam. Chinese Physics B, 2018, 27, 105207.	1.4	13
21	Surface plasmons in a semi-bounded massless Dirac plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2133-2136.	2.1	16
22	Stimulated scattering instability in a relativistic plasma. Physics of Plasmas, 2018, 25, 062116.	1.9	9
23	Modulation of kinetic AlfvÃ©n waves in an intermediate low-beta magnetoplasma. Physics of Plasmas, 2018, 25, 052121.	1.9	0
24	Effects of Landau damping on ion-acoustic solitary waves in a semiclassical plasma. Physics of Plasmas, 2017, 24, .	1.9	5
25	Magnetohydrodynamic shocks in a dissipative quantum plasma with exchange-correlation effects. European Physical Journal Plus, 2017, 132, 1.	2.6	9
26	Effects of group velocity and multiplasmon resonances on the modulation of Langmuir waves in a degenerate plasma. Physical Review E, 2017, 96, 053209.	2.1	6
27	Nonlinear dust-acoustic solitary waves and shocks in dusty plasmas with a pair of trapped ions. Physics of Plasmas, 2017, 24, .	1.9	23
28	Audio signal encryption using chaotic HÃ©non map and lifting wavelet transforms. European Physical Journal Plus, 2017, 132, 1.	2.6	23
29	Amplitude modulation of three-dimensional low-frequency solitary waves in a magnetized dusty superthermal plasma. Iranian Physical Journal, 2017, 11, 217-224.	1.2	14
30	Nonlinear Landau damping of wave envelopes in a quantum plasma. Physics of Plasmas, 2016, 23, .	1.9	11
31	Elliptically polarized electromagnetic waves in a magnetized quantum electron-positron plasma with effects of exchange-correlation. Physics of Plasmas, 2016, 23, 072105.	1.9	18
32	Modulation and nonlinear evolution of multi-dimensional Langmuir wave envelopes in a relativistic plasma. Physics of Plasmas, 2016, 23, 122112.	1.9	2
33	Nonlinear Landau damping and modulation of electrostatic waves in a nonextensive electron-positron-pair plasma. Physical Review E, 2015, 92, 063110.	2.1	24
34	Modulation of ion-acoustic waves in a nonextensive plasma with two-temperature electrons. Physics of Plasmas, 2015, 22, .	1.9	39
35	Landau damping of Gardner solitons in a dusty bi-ion plasma. Physics of Plasmas, 2015, 22, .	1.9	10
36	Complex Korteweg-de Vries equation and nonlinear dust-acoustic waves in a magnetoplasma with a pair of trapped ions. Applied Mathematics and Computation, 2015, 256, 368-374.	2.2	11

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37	Multidimensional ion-acoustic solitary waves and shocks in quantum plasmas. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 269-278.	2.6	13
38	Dust-acoustic solitary waves in a magnetized dusty plasma with nonthermal electrons and trapped ions. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 1360-1369.	3.3	30
39	Landau damping effects on dust-acoustic solitary waves in a dusty negative-ion plasma. Physics of Plasmas, 2014, 21, .	1.9	8
40	Kadomtsevâ€"Petviashvili (KP) Burgers Equation in Dusty Negative Ion Plasmas: Evolution of Dust-Ion Acoustic Shocks. Communications in Theoretical Physics, 2014, 62, 875-880.	2.5	16
41	Oblique propagation of dust ion-acoustic solitary waves in a magnetized dusty pair-ion plasma. Physics of Plasmas, 2014, 21, .	1.9	17
42	Modulation of drift-wave envelopes in a nonuniform quantum magnetoplasma. Physics of Plasmas, 2014, 21, 042306.	1.9	10
43	Electrostatic solitary waves in dusty pair-ion plasmas. Physics of Plasmas, 2013, 20, .	1.9	17
44	Stability and evolution of wave packets in strongly coupled degenerate plasmas. Physical Review E, 2012, 85, 026409.	2.1	27
45	Rossby rogons in atmosphere and in the solar photosphere. Europhysics Letters, 2012, 100, 55001.	2.0	6
46	Amplitude modulated drift wave packets in a nonuniform magnetoplasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2591-2594.	2.1	7
47	Characteristics of ion-acoustic solitary wave in a laboratory dusty plasma under the influence of ion-beam. Physics of Plasmas, 2012, 19, .	1.9	33
48	Ion-acoustic solitary waves and shocks in a collisional dusty negative-ion plasma. Physical Review E, 2012, 86, 056406.	2.1	45
49	Spatiotemporal evolution in a <mml:math altimg="si40.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://w... Physica A: Statisti...	2.6	15
50	Stability of two-dimensional ion-acoustic wave packets in quantum plasmas. Physics of Plasmas, 2011, 18, 042102.	1.9	12
51	Electromagnetic surface modes in a magnetized quantum electron-hole plasma. Physical Review E, 2011, 83, 057401.	2.1	37
52	Modulational instability of ion-acoustic wave packets inÂquantumÂpair-ion plasmas. Astrophysics and Space Science, 2011, 331, 605-609.	1.4	5
53	Synchronization of spatiotemporal semiconductor lasers and its application in color image encryption. Optics Communications, 2011, 284, 2278-2291.	2.1	43
54	Ponderomotive force due to the intrinsic spin in extended fluid and kinetic models. Physical Review E, 2011, 83, 036410.	2.1	37

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55	Upper-hybrid wave-driven AlfvÃ©nic turbulence in magnetized dusty plasmas. Physical Review E, 2011, 83, 037401.	2.1	6
56	Large amplitude solitary waves in ion-beam plasmas with charged dust impurities. Physics of Plasmas, 2011, 18, .	1.9	12
57	Modulational instability and nonlinear evolution of two-dimensional electrostatic wave packets in ultra-relativistic degenerate dense plasmas. Physics of Plasmas, 2011, 18, .	1.9	27
58	On the formation of shock and soliton in a dense quantum dusty plasma with cylindrical geometry. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 275-280.	3.3	5
59	Circularly polarized modes in magnetized spin plasmas. Journal of Plasma Physics, 2010, 76, 857-864.	2.1	56
60	Surface waves in magnetized quantum electron-positron plasmas. Journal of Plasma Physics, 2010, 76, 87-99.	2.1	27
61	Generation of wakefields by whistlers in spin quantum magnetoplasmas. Physics of Plasmas, 2010, 17, .	1.9	32
62	Spatiotemporal chaos and the dynamics of coupled Langmuir and ion-acoustic waves in plasmas. Physical Review E, 2010, 81, 046405.	2.1	14
63	Spin Contribution to the Ponderomotive Force in a Plasma. Physical Review Letters, 2010, 105, 105004.	7.8	78
64	Ion-beam driven dust ion-acoustic solitary waves in dusty plasmas. Physics of Plasmas, 2010, 17, 044502.	1.9	18
65	Temporal dynamics in the one-dimensional quantum Zakharov equations for plasmas. Physics of Plasmas, 2010, 17, 032307.	1.9	38
66	Nonlinear Wave-Wave Interactions in Quantum Plasmas. , 2010, , .		0
67	Double-layer shocks in a magnetized quantum plasma. Physical Review E, 2010, 82, 037401.	2.1	18
68	Localized whistlers in magnetized spin quantum plasmas. Physical Review E, 2010, 82, 056406.	2.1	40
69	Modulational instability of ion-acoustic wave envelopes in magnetized quantum electron-positron-ion plasmas. Physics of Plasmas, 2010, 17, .	1.9	34
70	Modulational instability and envelope excitation of ion-acoustic waves in quantum electron-positron-ion plasmas. Physics of Plasmas, 2009, 16, .	1.9	17
71	On the Nonlinear Excitation in Self Gravitating Quantum Dusty Plasma. International Journal of Theoretical Physics, 2009, 48, 1132-1141.	1.2	3
72	Nonlinear oscillations in a magnetized dusty plasma with two-temperature trapped ions. Chaos, Solitons and Fractals, 2009, 40, 758-765.	5.1	10

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73	Pattern dynamics and spatiotemporal chaos in the quantum Zakharov equations. Physical Review E, 2009, 79, 056401.	2.1	18
74	Evolution of AlfvÃ©nic wave envelopes in spin-1/2 quantum Hall-magnetohydrodynamic plasmas. Physics of Plasmas, 2009, 16, 102309.	1.9	2
75	Dust ion-acoustic shocks in quantum dusty pair-ion plasmas. Physics of Plasmas, 2009, 16, .	1.9	36
76	Singular waves in a magnetized pair-ion plasma. Physics of Plasmas, 2009, 16, 074505.	1.9	6
77	Coupled drift-AlfvÃ©nâ€“Shuklaâ€“Varma modes in quantum dusty plasmas. Physics of Plasmas, 2009, 16, .	1.9	9
78	A novel hyperchaos in the quantum Zakharov system for plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1469-1476.	2.1	34
79	Spin magnetosonic shock-like waves in quantum plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6412-6415.	2.1	20
80	Solitary wave propagation in quantum electron-positron plasmas. European Physical Journal D, 2008, 49, 373-377.	1.3	18
81	Ion-acoustic shocks in quantum electron-positron-ion plasmas. Physics of Plasmas, 2008, 15, .	1.9	113
82	Modulational instability of magnetosonic waves in a spin 1â•2 quantum plasma. Physics of Plasmas, 2008, 15, .	1.9	42
83	Quantum electron-acoustic double layers in a magnetoplasma. Physics of Plasmas, 2008, 15, .	1.9	42
84	Relativistic modulational instability of electron-acoustic waves in an electron-pair ion plasma. Physics of Plasmas, 2008, 15, 122107.	1.9	20
85	Nonlinear propagation of dust ion-acoustic waves in a dusty quantum magnetoplasma. Journal of Plasma Physics, 2008, 74, 197-205.	2.1	11
86	Amplitude modulation of electron plasma oscillations in a dense electron-hole plasma. Physics of Plasmas, 2007, 14, .	1.9	24
87	Saddle-node bifurcation and modulational instability associated with the pulse propagation of dust ion-acoustic waves in a viscous dusty plasma: A complex nonlinear SchrÃ¶dinger equation. Physics of Plasmas, 2007, 14, 012110.	1.9	28
88	Oblique modulation of electron-acoustic waves in a Fermi electron-ion plasma. Physics of Plasmas, 2007, 14, 122107.	1.9	37
89	Electron-acoustic solitary waves in dense quantum electron-ion plasmas. Physics of Plasmas, 2007, 14, .	1.9	72
90	Nonlinear wave modulation in a quantum magnetoplasma. Physics of Plasmas, 2007, 14, 012309.	1.9	48

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91	AlfvÃ©n surface modes in dusty spin 1/2 quantum magnetoplasmas. Physics of Plasmas, 2007, 14, 064501.	1.9	33
92	Nonplanar ion-acoustic waves in a quantum plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 90-97.	2.1	55
93	Effects of obliqueness and external magnetic field on the large amplitude solitary waves in a dusty plasma. Planetary and Space Science, 2007, 55, 1380-1387.	1.7	16
94	Modulation of dust acoustic waves with a quantum correction. Physics of Plasmas, 2006, 13, 072305.	1.9	93
95	Dust-acoustic solitary waves in an inhomogeneous magnetized hot dusty plasma with dust charge fluctuations. Physics of Plasmas, 2006, 13, 062307.	1.9	48
96	Dust-acoustic waves in a self-gravitating complex plasma with trapped electrons and nonisothermal ions. European Physical Journal D, 2006, 37, 105-113.	1.3	26
97	Modulational instability of dust acoustic waves in a dusty plasma with nonthermal electrons and ions. European Physical Journal D, 2006, 39, 49-57.	1.3	47
98	Acoustic Waves in a Self-Gravitating Collisional Dusty Plasma. Physica Scripta, 2005, 71, 207-212.	2.5	12
99	Comment on â€œNonrelativistic electromagnetic surface waves: Dispersion properties in a magnetized dusty electron-positron plasmaâ€• Physical Review E, 2004, 70, 058401.	2.1	4
100	Higher order contribution to the propagation characteristics of low frequency transverse waves in a dusty plasma. Pramana - Journal of Physics, 2004, 63, 579-593.	1.8	1
101	Electrostatic acoustic modes in a self-gravitating complex plasma with variable charge impurities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 110-121.	2.1	27
102	Acoustic Surface Waves in a Collisional Dusty Plasma. Physica Scripta, 2004, 69, 44-47.	2.5	10
103	Nonlinear interaction of electromagnetic pulses with an electronâ€“positron plasmaâ€“â€“a coupled NLS equation. Chaos, Solitons and Fractals, 2003, 15, 801-810.	5.1	10
104	Modulational instability of magnetosonic waves in a spin 1â•2 quantum plasma. , 0, .		1
105	Effects of Coriolis Force on the Nonlinear Interactions of Acoustic-Gravity Waves in the Atmosphere. SSRN Electronic Journal, 0, , .	0.4	0