Biswajit Sahu

List of Publications by Year
in descending order

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57 papers	931 citations	516710 16 h-index	477307 29 g-index
57 all docs	57 docs citations	57 times ranked	291 citing authors

#	Article	IF	Citations
1	Dissipative dust acoustic solitons in magnetized nonextensive warm dusty plasma. Chinese Journal of Physics, 2022, 77, 1029-1039.	3.9	2
2	Propagation of nonlinear excitations of dust acoustic waves by a moving charged object in superthermal plasmas. Indian Journal of Physics, 2022, 96, 3023-3030.	1.8	3
3	Nonlinear Wave Structures of Electron Acoustic Waves in Nonextensive Magnetized Electronâ€“Positronâ€“Ion Plasmas. Plasma Physics Reports, 2022, 48, 305-313.	0.9	2
4	Nonlinear modulation of quantum electron acoustic waves in a Thomasâ€“Fermi plasma with effects of exchange-correlation. Indian Journal of Physics, 2021, 95, 2479-2490.	1.8	5
5	Excitation of electrostatic plasma waves by a moving charged source in a quantum plasma. Advances in Space Research, 2021, 67, 1039-1048.	2.6	1
6	Nonâ€linear behaviour of electron acoustic wave dynamics inÂa magnetized plasma with nonâ€thermal hot electrons. Contributions To Plasma Physics, 2021, 61, e202100040.	1.1	4
7	Nonlinear excitations and dynamic features of dust ion-acoustic waves in a magnetized electronâ€“positronâ€“ion plasma. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2021, 76, 1077-1090.	1.5	3
8	Chaos and nonlinear excitations of dust acoustic waves in presence of external magnetic field with nonthermal species. European Physical Journal D, 2021, 75, 1.	1.3	4
9	Dissipative electrostatic wave modulation in warm multi-ion dusty plasmas with superthermal electrons. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2021, .	1.5	1
10	Dynamical behaviour of nonâ€linear quantum ion acoustic wave inÂweakly magnetized electronâ€“positronâ€“ion plasma. Contributions To Plasma Physics, 2020, 60, e201900072.	1.1	2
11	Nonlinear dissipative wave structures in planar and nonplanar geometry with quantum electron exchange-correlation potential. Chinese Journal of Physics, 2020, 68, 330-338.	3.9	2
12	Electron-exchange potential correction on dynamics of multidimensional ion acoustic waves in quantum plasmas. Physics of Plasmas, 2020, 27, 062305.	1.9	7
13	Nonlinear dynamics of ion-acoustic waves in quantum plasmas with exchange-correlation effects. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2020, 75, 677-685.	1.5	3
14	Influence of varying magnetic field on nonlinear wave excitations in collisional quantum plasmas. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2020, 75, 913-919.	1.5	2
15	Ion-acoustic waves in dense magneto-rotating quantum plasma. Physics of Plasmas, 2019, 26, .	1.9	16
16	Nonlinear Dispersive and Dissipative Electrostatic Structures in Two-Dimensional Electron-Positron-Ion Quantum Plasma. Communications in Theoretical Physics, 2019, 71, 237.	2.5	5
17	Dissipative nonlinear waves in a gravitating quantum fluid. European Physical Journal Plus, 2018, 133, 1.	2.6	3
18	Nonlinear quantum ion acoustic shock wave dynamics with exchange-correlation effects. Advances in Space Research, 2018, 61, 1425-1434.	2.6	5

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19	Electron acoustic waves in a 2-electron, dissipative, quantum magneto plasma. European Physical Journal Plus, 2018, 133, 1.	2.6	0
20	Nonplanar ion acoustic waves in collisional quantum plasma. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 162-168.	2.6	9
21	Magnetohydrodynamic shocks in a dissipative quantum plasma with exchange-correlation effects. European Physical Journal Plus, 2017, 132, 1.	2.6	9
22	Nonlinear Structures in an Ion-Beam Plasmas Including Dust Impurities with Nonthermal Nonextensive Electrons. Communications in Theoretical Physics, 2017, 68, 117.	2.5	11
23	Planar and nonplanar electron acoustic solitons in dissipative quantum plasma. Physics of Plasmas, 2017, 24, 112705.	1.9	9
24	Weak dissipative ion-acoustic solitons in relativistically degenerate collisional plasma. Physics of Plasmas, 2017, 24, .	1.9	12
25	Nonlinear dynamics of ion acoustic waves in quantum pair-ion plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	11
26	Time evolution of nonplanar dust ion-acoustic solitary waves in a charge varying dusty plasma with superthermal electrons. Physics of Plasmas, 2015, 22, 123703.	1.9	2
27	Instability saturation by the oscillating two-stream instability in a weakly relativistic plasma. Physics of Plasmas, 2015, 22, 042306.	1.9	6
28	Multidimensional ion-acoustic solitary waves and shocks in quantum plasmas. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 269-278.	2.6	13
29	Nonplanar ion-acoustic shocks in electronâ€“positronâ€“ion plasmas: Effect of superthermal electrons. Pramana - Journal of Physics, 2013, 81, 491-501.	1.8	10
30	Kadomstev-Petviashvili solitons in quantum plasmas. Astrophysics and Space Science, 2013, 343, 289-292.	1.4	11
31	Two-soliton solution of ion acoustic solitary waves in nonplanar geometry. Astrophysics and Space Science, 2013, 345, 91-98.	1.4	14
32	Propagation of two-solitons in an electron acoustic waves in a plasma with electrons featuring Tsallis distribution. Astrophysics and Space Science, 2013, 346, 415-420.	1.4	6
33	Arbitrary Amplitude Ion Acoustic Solitary Waves in An Unmagnetized Two Electron Population Ultra-Relativistic Dense Plasmas. Earth, Moon and Planets, 2013, 110, 165-174.	0.6	1
34	Non-planar dust-acoustic solitary waves and double layers in a four-component dusty plasma with super thermal electrons. Journal of Plasma Physics, 2013, 79, 691-698.	2.1	2
35	Arbitrary amplitude magnetosonic solitary and shock structures in spin quantum plasma. Physics of Plasmas, 2013, 20, .	1.9	6
36	Dynamics of low dimensional model for weakly relativistic Zakharov equations for plasmas. Physics of Plasmas, 2013, 20, .	1.9	4

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37	Nonplanar electron acoustic shock waves in a plasma with electrons featuring Tsallis distribution. Physics of Plasmas, 2012, 19, 022304.	1.9	24
38	Superthermal effect of electrons on nonplanar dust-ion-acoustic solitary waves and double layers in a dusty plasma. Astrophysics and Space Science, 2012, 342, 449-456.	1.4	12
39	Nonplanar Ion Acoustic Waves with Nonthermal Electrons. Earth, Moon and Planets, 2012, 109, 77-89.	0.6	1
40	Nonplanar ion acoustic solitary waves with superthermal electrons and positrons. Astrophysics and Space Science, 2012, 341, 559-565.	1.4	11
41	Solitonic, quasi-periodic and periodic pattern of electron acoustic waves in quantum plasma. Astrophysics and Space Science, 2012, 341, 567-572.	1.4	36
42	Small amplitude double-layers in an electron depleted dusty plasma with ions featuring the Tsallis distribution. Astrophysics and Space Science, 2012, 341, 573-578.	1.4	26
43	Planar and nonplanar ion acoustic shock waves with nonthermal electrons and positrons. Astrophysics and Space Science, 2012, 339, 261-267.	1.4	26
44	Effect of finite ion temperature on arbitrary amplitude dust ion acoustic solitary waves in quantum plasma. Indian Journal of Physics, 2012, 86, 401-405.	1.8	14
45	Ion acoustic solitary and shock waves with nonextensive electrons and thermal positrons in nonplanar geometry. Astrophysics and Space Science, 2012, 338, 251-257.	1.4	36
46	Nonextensive dust acoustic solitary and shock waves in nonplanar geometry. Astrophysics and Space Science, 2012, 338, 259-264.	1.4	81
47	Quantum ion-acoustic solitary waves in weak relativistic plasma. Pramana - Journal of Physics, 2011, 76, 933-944.	1.8	17
48	Positron acoustic shock waves in planar and nonplanar geometry. Physica Scripta, 2010, 82, 065504.	2.5	53
49	Head-on collision of ion acoustic solitary waves in an electron-positron-ion plasma with superthermal electrons. Physics of Plasmas, 2010, 17, .	1.9	115
50	Cylindrical and spherical quantum ion acoustic waves. Physics of Plasmas, 2007, 14, 012304.	1.9	43
51	Electron acoustic solitons in a relativistic plasma with nonthermal electrons. Physics of Plasmas, 2006, 13, 072302.	1.9	48
52	Response to â€œComment on â€˜Exact solutions of cylindrical and spherical dust ion acoustic wavesâ€™â€• [Phys. Plasmas 12, 054701 (2005)]. Physics of Plasmas, 2005, 12, 054702.	1.9	0
53	Cylindrical and spherical ion acoustic waves in a plasma with nonthermal electrons and warm ions. Physics of Plasmas, 2005, 12, 052106.	1.9	21
54	Cylindrical and spherical ion-acoustic shock waves in multielectron temperature collisional plasma. Physics of Plasmas, 2004, 11, 4871-4874.	1.9	21

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55	Electron-acoustic solitary waves and double layers in a relativistic electron-beam plasma system. Physics of Plasmas, 2004, 11, 1947-1954.	1.9	49
56	Travelling Wave Solution of Korteweg-de Vries-Burger's Equation. European Physical Journal D, 2003, 53, 517-527.	0.4	27
57	Exact solutions of cylindrical and spherical dust ion acoustic waves. Physics of Plasmas, 2003, 10, 4162-4165.	1.9	64