

# 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	Head-on collision of ion acoustic solitary waves in an electron-positron-ion plasma with superthermal electrons. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	115
2	Nonextensive dust acoustic solitary and shock waves in nonplanar geometry. <i>Astrophysics and Space Science</i> , 2012, 338, 259-264.	1.4	81
3	Exact solutions of cylindrical and spherical dust ion acoustic waves. <i>Physics of Plasmas</i> , 2003, 10, 4162-4165.	1.9	64
4	Positron acoustic shock waves in planar and nonplanar geometry. <i>Physica Scripta</i> , 2010, 82, 065504.	2.5	53
5	Electron-acoustic solitary waves and double layers in a relativistic electron-beam plasma system. <i>Physics of Plasmas</i> , 2004, 11, 1947-1954.	1.9	49
6	Electron acoustic solitons in a relativistic plasma with nonthermal electrons. <i>Physics of Plasmas</i> , 2006, 13, 072302.	1.9	48
7	Cylindrical and spherical quantum ion acoustic waves. <i>Physics of Plasmas</i> , 2007, 14, 012304.	1.9	43
8	Solitonic, quasi-periodic and periodic pattern of electron acoustic waves in quantum plasma. <i>Astrophysics and Space Science</i> , 2012, 341, 567-572.	1.4	36
9	Ion acoustic solitary and shock waves with nonextensive electrons and thermal positrons in nonplanar geometry. <i>Astrophysics and Space Science</i> , 2012, 338, 251-257.	1.4	36
10	Travelling Wave Solution of Korteweg-de Vries-Burger's Equation. <i>European Physical Journal D</i> , 2003, 53, 517-527.	0.4	27
11	Small amplitude double-layers in an electron depleted dusty plasma with ions featuring the Tsallis distribution. <i>Astrophysics and Space Science</i> , 2012, 341, 573-578.	1.4	26
12	Planar and nonplanar ion acoustic shock waves with nonthermal electrons and positrons. <i>Astrophysics and Space Science</i> , 2012, 339, 261-267.	1.4	26
13	Nonplanar electron acoustic shock waves in a plasma with electrons featuring Tsallis distribution. <i>Physics of Plasmas</i> , 2012, 19, 022304.	1.9	24
14	Cylindrical and spherical ion-acoustic shock waves in multielectron temperature collisional plasma. <i>Physics of Plasmas</i> , 2004, 11, 4871-4874.	1.9	21
15	Cylindrical and spherical ion acoustic waves in a plasma with nonthermal electrons and warm ions. <i>Physics of Plasmas</i> , 2005, 12, 052106.	1.9	21
16	Quantum ion-acoustic solitary waves in weak relativistic plasma. <i>Pramana - Journal of Physics</i> , 2011, 76, 933-944.	1.8	17
17	Ion-acoustic waves in dense magneto-rotating quantum plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	16
18	Effect of finite ion temperature on arbitrary amplitude dust ion acoustic solitary waves in quantum plasma. <i>Indian Journal of Physics</i> , 2012, 86, 401-405.	1.8	14

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19	Two-soliton solution of ion acoustic solitary waves in nonplanar geometry. <i>Astrophysics and Space Science</i> , 2013, 345, 91-98.	1.4	14
20	Multidimensional ion-acoustic solitary waves and shocks in quantum plasmas. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 421, 269-278.	2.6	13
21	Superthermal effect of electrons on nonplanar dust-ion-acoustic solitary waves and double layers in a dusty plasma. <i>Astrophysics and Space Science</i> , 2012, 342, 449-456.	1.4	12
22	Weak dissipative ion-acoustic solitons in relativistically degenerate collisional plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12
23	Nonplanar ion acoustic solitary waves with superthermal electrons and positrons. <i>Astrophysics and Space Science</i> , 2012, 341, 559-565.	1.4	11
24	Kadomtsev-Petviashvili solitons in quantum plasmas. <i>Astrophysics and Space Science</i> , 2013, 343, 289-292.	1.4	11
25	Nonlinear dynamics of ion acoustic waves in quantum pair-ion plasmas. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	11
26	Nonlinear Structures in an Ion-Beam Plasmas Including Dust Impurities with Nonthermal Nonextensive Electrons. <i>Communications in Theoretical Physics</i> , 2017, 68, 117.	2.5	11
27	Nonplanar ion-acoustic shocks in electron-positron-ion plasmas: Effect of superthermal electrons. <i>Pramana - Journal of Physics</i> , 2013, 81, 491-501.	1.8	10
28	Magnetohydrodynamic shocks in a dissipative quantum plasma with exchange-correlation effects. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	9
29	Planar and nonplanar electron acoustic solitons in dissipative quantum plasma. <i>Physics of Plasmas</i> , 2017, 24, 112705.	1.9	9
30	Nonplanar ion acoustic waves in collisional quantum plasma. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 162-168.	2.6	9
31	Electron-exchange potential correction on dynamics of multidimensional ion acoustic waves in quantum plasmas. <i>Physics of Plasmas</i> , 2020, 27, 062305.	1.9	7
32	Propagation of two-solitons in an electron acoustic waves in a plasma with electrons featuring Tsallis distribution. <i>Astrophysics and Space Science</i> , 2013, 346, 415-420.	1.4	6
33	Arbitrary amplitude magnetosonic solitary and shock structures in spin quantum plasma. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	6
34	Instability saturation by the oscillating two-stream instability in a weakly relativistic plasma. <i>Physics of Plasmas</i> , 2015, 22, 042306.	1.9	6
35	Nonlinear quantum ion acoustic shock wave dynamics with exchange-correlation effects. <i>Advances in Space Research</i> , 2018, 61, 1425-1434.	2.6	5
36	Nonlinear Dispersive and Dissipative Electrostatic Structures in Two-Dimensional Electron-Positron-Ion Quantum Plasma. <i>Communications in Theoretical Physics</i> , 2019, 71, 237.	2.5	5

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37	Nonlinear modulation of quantum electron acoustic waves in a Thomas-Fermi plasma with effects of exchange-correlation. Indian Journal of Physics, 2021, 95, 2479-2490.	1.8	5
38	Dynamics of low dimensional model for weakly relativistic Zakharov equations for plasmas. Physics of Plasmas, 2013, 20, .	1.9	4
39	Nonlinear behaviour of electron acoustic wave dynamics in a magnetized plasma with nonthermal hot electrons. Contributions To Plasma Physics, 2021, 61, e202100040.	1.1	4
40	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
41	Dissipative nonlinear waves in a gravitating quantum fluid. European Physical Journal Plus, 2018, 133, 1.	2.6	3
42	Nonlinear excitations and dynamic features of dust ion-acoustic waves in a magnetized electron-positron ion plasma. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2021, 76, 1077-1090.	1.5	3
43	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
44	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
45	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
46	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
47	Dynamical behaviour of nonlinear quantum ion acoustic wave in a weakly magnetized electron-positron ion plasma. Contributions To Plasma Physics, 2020, 60, e201900072.	1.1	2
48	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
49	Dissipative dust acoustic solitons in magnetized nonextensive warm dusty plasma. Chinese Journal of Physics, 2022, 77, 1029-1039.	3.9	2
50	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
51	Nonlinear Wave Structures of Electron Acoustic Waves in Nonextensive Magnetized Electron-Positron Ion Plasmas. Plasma Physics Reports, 2022, 48, 305-313.	0.9	2
52	Nonplanar Ion Acoustic Waves with Nonthermal Electrons. Earth, Moon and Planets, 2012, 109, 77-89.	0.6	1
53	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
54	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

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55	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
56	Response to "Comment on "Exact solutions of cylindrical and spherical dust ion acoustic waves" [Phys. Plasmas 12, 054701 (2005)]. Physics of Plasmas, 2005, 12, 054702.	1.9	0
57	Electron acoustic waves in a 2-electron, dissipative, quantum magneto plasma. European Physical Journal Plus, 2018, 133, 1.	2.6	0