Hesham G Abdelwahed

List of Publications by Year
in descending order

51 papers	630 citations	566801 15 h-index	676716 22 g-index
51 all docs	51 docs citations	51 times ranked	211 citing authors

#	Article	IF	Citations
1	Envelope ion-acoustic solitary waves in a plasma with positive-negative ions and nonthermal electrons. Physics of Plasmas, 2010, 17, .	0.7	47
2	On the rogue wave propagation in ion pair superthermal plasma. Physics of Plasmas, 2016, 23, .	0.7	40
3	Solitary solution and energy for the Kadomstevâ€“Petviashvili equation in two temperatures charged dusty grains. Astrophysics and Space Science, 2011, 332, 179-186.	0.5	33
4	On the physical nonlinear (nï¼‹1)-dimensional SchrÃ¶dinger equation applications. Results in Physics, 2021, 21, 103798.	2.0	30
5	Pressure response to electronic structures of bulk semiconductors at room temperature. Physica B: Condensed Matter, 2010, 405, 3709-3713.	1.3	26
6	Pressure dependence of the electronic structure in Ge, GaP and InP semiconductors at room temperature. Indian Journal of Physics, 2012, 86, 363-369.	0.9	25
7	Dust-acoustic solitary waves in a dusty plasma with dust of opposite polarity and vortex-like ion distribution. Journal of Plasma Physics, 2013, 79, 859-865.	0.7	24
8	Some solutions for a stochastic NLSE in the unstable and higher order dispersive environments. Results in Physics, 2022, 34, 105242.	2.0	23
9	Time fractional effect on ion acoustic shock waves in ion-pair plasma. Journal of Experimental and Theoretical Physics, 2016, 122, 1111-1116.	0.2	21
10	Nonlinear dust-ion acoustic periodic travelling waves in a magnetized plasma with two temperature superthermal electrons and stationary charged dust grains. Physics of Plasmas, 2017, 24, .	0.7	21
11	Nonlinearity contributions on critical MKP equation. Journal of Taibah University for Science, 2020, 14, 777-782.	1.1	21
12	Higher-order corrections to broadband electrostatic shock noise in auroral zone. Physics of Plasmas, 2015, 22, .	0.7	19
13	Dust Acoustic Solitary Waves in Saturn F-ring's Region. Communications in Theoretical Physics, 2011, 55, 143-150.	1.1	18
14	New nonlinear periodic, solitonic, dissipative waveforms for modified-Kadomstev-Petviashvili-equation in nonthermal positron plasma. Results in Physics, 2020, 19, 103393.	2.0	16
15	Improved Speed and Shape of Ion-Acoustic Waves in a Warm Plasma. Communications in Theoretical Physics, 2013, 60, 445-452.	1.1	15
16	Contribution of Higher-Order Nonlinearity to obliquely electron-acoustic solitary waves in a magnetized auroral zone plasma. Astrophysics and Space Science, 2012, 341, 491-500.	0.5	14
17	Nonlinear dust acoustic rogue waves in a two temperature charged dusty grains plasma. Astrophysics and Space Science, 2015, 359, 1.	0.5	14
18	On the modulation of ionic velocity in electronâ€“positronâ€“ion plasmas. Journal of Taibah University for Science, 2017, 11, 1267-1274.	1.1	13

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19	Positron superthermality effects on the solitonic, dissipative, periodic waveforms for M-Kadomstev-Petviashvili-plasma-equation. Physica Scripta, 2020, 95, 105204.	1.2	13
20	Dust acoustic shock waves in two temperatures charged dusty grains. Physics of Plasmas, 2011, 18, .	0.7	12
21	Higher-order Kerr nonlinear and dispersion effects on fiber optics. Results in Physics, 2021, 26, 104268.	2.0	12
22	On the Time Fractional Modulation for Electron Acoustic Shock Waves*. Chinese Physics Letters, 2017, 34, 035202.	1.3	11
23	Effect of Higher-Order Corrections on the Propagation of Nonlinear Dust-Acoustic Solitary Waves in Mesospheric Dusty Plasmas. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2006, 61, 316-322.	0.7	10
24	The Effect of Higher-Order Corrections on the Propagation of Nonlinear Dust-Acoustic Solitary Waves in a Dusty Plasma with Nonthermal Ions Distribution. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 261-272.	0.7	10
25	Compressive and rarefactive dressed solitons in plasma with nonthermal electrons and positrons. Physics of Plasmas, 2016, 23, 022306.	0.7	10
26	On the ion acoustic obliquely propagation in magnetized inhomogeneous plasmas. Advances in Space Research, 2017, 59, 1008-1013.	1.2	10
27	Characteristics of stochastic Langmuir wave structures in presence of ItÃ´ sense. Results in Physics, 2022, 37, 105435.	2.0	10
28	Effect of nonthermality of electrons on the speed and shape of ion-acoustic solitary waves in a warm plasma. Physics of Plasmas, 2012, 19, .	0.7	9
29	Higher-Order Corrections to EarthÊ¼s Ionosphere Shocks. Communications in Theoretical Physics, 2017, 67, 90.	1.1	9
30	New super waveforms for modified Korteweg-de-Veries-equation. Results in Physics, 2020, 19, 103420.	2.0	9
31	Modified electron acoustic field and energy applied to observation data. Physics of Plasmas, 2016, 23, .	0.7	8
32	Modulated 3D electron-acoustic rogue waves in magnetized plasma with nonthermal electrons. Astrophysics and Space Science, 2017, 362, 1.	0.5	8
33	Super electron acoustic propagations in critical plasma density. Journal of Taibah University for Science, 2020, 14, 1363-1368.	1.1	8
34	On the positron superthermality and ionic masses contributions on the wave behaviour in collisional space plasma. Advances in Space Research, 2020, 66, 259-265.	1.2	7
35	On the speed and shape of electron acoustic solitary waves. Astrophysics and Space Science, 2013, 344, 167-173.	0.5	6
36	Cylindrical electron acoustic solitons for modified time-fractional nonlinear equation. Physics of Plasmas, 2017, 24, .	0.7	6

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37	Role of electrons non-extensivity on the fully nonlinear dust-ion acoustic solitary waves. Physica Scripta, 2021, 96, 045209.	1.2	6
38	Rogue waves for Kadomstev-Petviashvili solutions in a warm dusty plasma with opposite polarity. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 69	0.1	5
39	New Soliton Applications in Earth's Magnetotail Plasma at Critical Densities. Frontiers in Physics, 2020, 8, .	1.0	5
40	Positron nonextensivity contributions on the rational solitonic, periodic, dissipative structures for MKP equation described critical plasmas. Advances in Space Research, 2021, 67, 3260-3266.	1.2	5
41	Modulations of some physical parameters in a nonlinear SchrÃ¶dinger type equation in fiber communications. Results in Physics, 2022, 38, 105548.	2.0	5
42	On Time-Fractional Cylindrical Nonlinear Equation. Chinese Physics Letters, 2016, 33, 115201.	1.3	3
43	Nonthermal effects on the cylindrical dusty ion shocks in nonthermal viscous space plasma. Advances in Space Research, 2020, 65, 684-692.	1.2	3
44	Computational Solutions for the Kortewegâ€“deVries Equation in Warm Plasma. Computational Methods in Science and Technology, 2010, 16, 13-18.	0.3	3
45	Cylindrical shock potentials in nonextensive space plasmas. Indian Journal of Physics, 2021, 95, 515-521.	0.9	2
46	The nonextensive effects on the supersoliton structure in critical plasma state. Chinese Journal of Physics, 2022, 77, 1987-1996.	2.0	2
47	Properties of Damped Cylindrical Solitons in Nonextensive Plasmas. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 905-910.	0.7	1
48	Effects of the ionic masses and positron density on the damped behavior in nonthermal collisional plasmas. Indian Journal of Physics, 2020, 95, 1909.	0.9	1
49	Electron and positron nonthermality effects on the formation of damped solitons in collisional multi-component plasmas. Chinese Journal of Physics, 2021, 72, 670-680.	2.0	1
50	Nonlinear Waveforms for Ion-Acoustic Waves in Weakly Relativistic Plasma of Warm Ion-Fluid and Isothermal Electrons. Advances in Mathematical Physics, 2012, 2012, 1-12.	0.4	0
51	Propagation of shock wave of nitrogen gas in Titan stratosphere. Journal of Taibah University for Science, 2021, 15, 679-684.	1.1	0