Wael El-Taibany

List of Publications by Year
in descending order

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83 papers	2,287 citations	201674 27 h-index	265206 42 g-index
84 all docs	84 docs citations	84 times ranked	483 citing authors

#	Article	IF	Citations
1	Nonlinear quantum dust acoustic waves in nonuniform complex quantum dusty plasma. Physics of Plasmas, 2007, 14, 042302.	1.9	105
2	Dust-acoustic solitary waves and double layers in a magnetized dusty plasma with nonthermal ions and dust charge variation. Physics of Plasmas, 2005, 12, 082302.	1.9	76
3	Dust acoustic solitary waves and double layers in a dusty plasma with two-temperature trapped ions. Physics of Plasmas, 2004, 11, 926-933.	1.9	75
4	Nonlinear electromagnetic perturbations in a degenerate ultrarelativistic electron-positron plasma. Physical Review E, 2012, 85, 026406.	2.1	71
5	Nonlinear ion-acoustic solitary waves in electronegative plasmas with electrons featuring Tsallis distribution. Physics of Plasmas, 2012, 19, .	1.9	68
6	Head-on collision of quantum ion-acoustic solitary waves in a dense electronâ€“positronâ€“ion plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 960-964.	2.1	67
7	Effect of two-temperature trapped electrons to nonlinear dust-ion-acoustic solitons. Physics of Plasmas, 2005, 12, 122309.	1.9	66
8	Three-dimensional stability of dust-ion acoustic solitary waves in a magnetized multicomponent dusty plasma with negative ions. Physics of Plasmas, 2011, 18, .	1.9	65
9	Nonlinear dust acoustic waves in a nonuniform magnetized complex plasma with nonthermal ions and dust charge variation. Physics of Plasmas, 2007, 14, 032304.	1.9	64
10	Dust acoustic solitary waves and double layers in a dusty plasma with an arbitrary streaming ion beam. Physics of Plasmas, 2003, 10, 989-998.	1.9	58
11	Higher-order nonlinearity of electron-acoustic solitary waves with vortex-like electron distribution and electron beam. Physics of Plasmas, 2005, 12, .	1.9	56
12	Dust acoustic solitary waves and double layers in a dusty plasma with trapped electrons. Physics of Plasmas, 2003, 10, 4685-4695.	1.9	52
13	Bifurcation analysis for ion acoustic waves in a strongly coupled plasma including trapped electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 412-419.	2.1	51
14	Dust-ion-acoustic solitons with transverse perturbation. Physics of Plasmas, 2005, 12, 052318.	1.9	50
15	Modulational instability of dust acoustic waves in dusty plasmas: Modulation obliqueness, background ion nonthermality, and dust charging effects. Physics of Plasmas, 2006, 13, 062302.	1.9	50
16	Positron acoustic solitary waves interaction in a four-component space plasma. Astrophysics and Space Science, 2012, 338, 279-285.	1.4	49
17	Electron-acoustic solitary waves and double layers with an electron beam and phase space electron vortices in space plasmas. Journal of Geophysical Research, 2005, 110, .	3.3	47
18	Propagation of three-dimensional ion-acoustic solitary waves in magnetized negative ion plasmas with nonthermal electrons. Physics of Plasmas, 2010, 17, 042301.	1.9	39

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19	Amplitude modulation of quantum-ion-acoustic wavepackets in electron-positron-ion plasmas: Modulational instability, envelope modes, extreme waves. Physics of Plasmas, 2015, 22, .	1.9	38
20	Sagdeev potential analysis for positively charged dust grains in nonthermal dusty plasma near Mars. Physics of Plasmas, 2007, 14, 103703.	1.9	37
21	Ion Acoustic Solitary Waves in Degenerate Electron-Ion Plasmas. IEEE Transactions on Plasma Science, 2016, 44, 842-848.	1.3	37
22	Ion acoustic shock waves in a degenerate relativistic plasma with nuclei of heavy elements. European Physical Journal Plus, 2017, 132, 1.	2.6	35
23	Effect of dust-charge variation on dust acoustic solitary waves in a dusty plasma with trapped electrons. Journal of Plasma Physics, 2004, 70, 69-87.	2.1	33
24	Stability of three-dimensional dust acoustic waves in a dusty plasma with two opposite polarity dust species including dust size distribution. Physical Review E, 2013, 88, 023108.	2.1	33
25	Higher-order corrections to nonlinear dust-ion-acoustic shock waves in a degenerate dense space plasma. Astrophysics and Space Science, 2014, 354, 385-393.	1.4	33
26	Modulational instability of a weakly relativistic ion acoustic wave in a warm plasma with nonthermal electrons. Chinese Physics B, 2003, 12, 759-764.	1.3	31
27	Nonlinear dust acoustic waves in inhomogeneous four-component dusty plasma with opposite charge polarity dust grains. Physics of Plasmas, 2013, 20, .	1.9	31
28	Low frequency localized wavepackets in dusty plasmas with opposite charge polarity dust components. Plasma Physics and Controlled Fusion, 2008, 50, 074003.	2.1	28
29	Nonlinear electromagnetic perturbations in a degenerate electronâ€“positron plasma. Advances in Space Research, 2012, 50, 101-107.	2.6	28
30	Dust acoustic waves in a dusty plasma containing hybrid Cairnsâ€“Tsallis-distributed electrons and variable size dust grains. Chinese Journal of Physics, 2019, 58, 151-158.	3.9	28
31	Nonlinear electron-acoustic waves with vortex-like electron distribution and electron beam in a strongly magnetized plasma. Chaos, Solitons and Fractals, 2007, 33, 813-822.	5.1	25
32	Head-on-collision of modulated dust acoustic waves in strongly coupled dusty plasma. Physics of Plasmas, 2012, 19, .	1.9	25
33	Stability of three-dimensional obliquely propagating dust acoustic waves in dusty plasma including the polarization force effect. European Physical Journal Plus, 2015, 130, 1.	2.6	25
34	Higher-order contribution to obliquely nonlinear electron-acoustic waves with electron beam in a magnetized plasma. Physics of Plasmas, 2005, 12, 092304.	1.9	24
35	On the stability of obliquely propagating dust ion-acoustic solitary waves in hot adiabatic magnetized dusty plasmas. Physics of Plasmas, 2009, 16, 123706.	1.9	24
36	Finite amplitude solitary excitations in rotating magnetized nonthermal complex (dusty) plasmas. Physics of Plasmas, 2010, 17, 034501.	1.9	24

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37	Stability of ion-acoustic solitons in a multi-ion degenerate plasma with the effects of trapping and polarization under the influence of quantizing magnetic field. Waves in Random and Complex Media, 2022, 32, 728-742.	2.7	24
38	On the higher-order solution of the dust-acoustic solitary waves in a warm magnetized dusty plasma with dust charge variation. Physics of Plasmas, 2004, 11, 3303-3310.	1.9	23
39	The effect of dust size distribution on quantum dust acoustic wave. Physics of Plasmas, 2009, 16, 093701.	1.9	23
40	Large-amplitude dust-ion acoustic solitary waves in a dusty plasma with nonthermal electrons. Astrophysics and Space Science, 2012, 341, 527-534.	1.4	21
41	Electrostatic double layers in a warm negative ion plasma with nonextensive electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1282-1289.	2.1	21
42	Kadomtsev-Petviashvili Equation for Dust Acoustic Solitary Waves in a Warm Dusty Plasma with Dust Charge Variation. Physica Scripta, 2004, 70, 317-321.	2.5	20
43	On the instability of electrostatic waves in a nonuniform electronâ€“positron magnetoplasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4067-4075.	2.1	20
44	Linear and nonlinear dust acoustic waves in an inhomogeneous magnetized dusty plasma with nonextensive electrons. Physics of Plasmas, 2014, 21, 073710.	1.9	20
45	Oblique collision of ion acoustic solitons in a relativistic degenerate plasma. Scientific Reports, 2020, 10, 16152.	3.3	20
46	Modulational instability of dust-ion acoustic waves in the presence of generalized (r,â€‰q) distributed electrons. Physics of Plasmas, 2020, 27, .	1.9	20
47	Nonlinear Electromagnetic Waves in a Degenerate Electron-Positron Plasma. Brazilian Journal of Physics, 2015, 45, 409-418.	1.4	19
48	Arbitrary amplitude dust acoustic solitary waves in a dusty plasma with an ion beam. European Physical Journal D, 2011, 64, 375-386.	1.3	18
49	Two solitons oblique collision in anisotropic non-extensive dusty plasma. Physics of Plasmas, 2017, 24, .	1.9	18
50	Modulated ion acoustic waves in a plasma with Cairns-Gurevich distribution. Physics of Plasmas, 2017, 24, .	1.9	18
51	Linear and nonlinear quantum dust ion acoustic wave with dust size distribution effect. Physics of Plasmas, 2010, 17, 053705.	1.9	17
52	Ion-acoustic Gardner solitons in multi-ion degenerate plasma with the effect of polarization and trapping in the presence of a quantizing magnetic field. Physics of Plasmas, 2018, 25, .	1.9	17
53	Nonlinear dust acoustic waves in a self-gravitating and opposite-polarity complex plasma medium. European Physical Journal Plus, 2019, 134, 1.	2.6	17
54	Variableâ€size dust grains with generalized (r, q) electrons in a dusty plasma. Contributions To Plasma Physics, 2019, 59, e201800072.	1.1	17

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55	Bifurcation analysis of nonlinear and supernonlinear dustâ€“acoustic waves in a dusty plasma using the generalized (<scp>r</scp>, <scp>q</scp>) distribution function for ions and electrons. Contributions To Plasma Physics, 2020, 60, e202000022.	1.1	17
56	Ion-acoustic double layers in magnetized positive-negative ion plasmas with nonthermal electrons. Astrophysics and Space Science, 2012, 340, 77-85.	1.4	16
57	Collision of dust ion acoustic multisolitons in a non-extensive plasma using Hirota bilinear method. Physics of Plasmas, 2018, 25, .	1.9	16
58	Dust-acoustic solitary waves in a two-temperature electrons with charge fluctuations and nonisothermal ions. Chaos, Solitons and Fractals, 2007, 34, 1393-1400.	5.1	15
59	Nonplanar dynamics of variable size dust grains in nonextensive dusty plasma. Physics of Plasmas, 2015, 22, .	1.9	15
60	Instability of nonplanar modulated dust acoustic wave packets in a strongly coupled nonthermal dusty plasma. Physics of Plasmas, 2015, 22, .	1.9	15
61	Effect of anisotropic dust pressure and superthermal electrons on propagation and stability of dust acoustic solitary waves. Physics of Plasmas, 2015, 22, 062112.	1.9	15
62	Gravitoelectrostatic excitations in an opposite polarity complex plasma. Physics of Plasmas, 2019, 26, 063701.	1.9	15
63	The effects of variable dust size and charge on dust acoustic waves propagating in a hybrid Cairnsâ€“Tsallis complex plasma. Indian Journal of Physics, 2018, 92, 661-668.	1.8	14
64	Nonplanar dust acoustic solitary waves in a strongly coupled dusty plasma with superthermal ions. Physics of Plasmas, 2014, 21, 123710.	1.9	13
65	Dust-acoustic solitary and periodic waves in magnetized self-gravito-electrostatic opposite polarity dusty plasmas. European Physical Journal Plus, 2022, 137, 1.	2.6	12
66	Stability of three-dimensional dust acoustic waves in a strongly coupled dusty plasma including kappa distributed superthermal ions and electrons. European Physical Journal Plus, 2019, 134, 1.	2.6	11
67	Landau damping of dust acoustic waves in the presence of hybrid nonthermal nonextensive electrons. Astrophysics and Space Science, 2018, 363, 1.	1.4	10
68	Nonplanar dust acoustic waves in a four-component dusty plasma with double spectral distributed electrons: modulational instability and rogue waves. Waves in Random and Complex Media, 0, , 1-20.	2.7	10
69	Transverse instability of ion acoustic solitons in a magnetized plasma including -nonextensive electrons and positrons. Journal of Plasma Physics, 2015, 81, .	2.1	9
70	Dust acoustic cnoidal waves in a polytropic complex plasma. Physics of Plasmas, 2018, 25, .	1.9	9
71	New exact solutions for a generalized variable-coefficient KdV equation. Nonlinear Analysis: Theory, Methods & Applications, 2008, 69, 2763-2770.	1.1	8
72	Modulational instability of dust acoustic solitary waves for variable-charge dust grains in an ion beamâ€“dusty plasma. Physica Scripta, 2013, 87, 055502.	2.5	8

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73	Modeling of nonlinear envelope solitons in strongly coupled dusty plasmas: Instability and collision. Chinese Physics B, 2015, 24, 035201.	1.4	8
74	Effects of double spectral electron distribution and polarization force on dust acoustic waves in a negative dusty plasma. Contributions To Plasma Physics, 2020, 60, e202000049.	1.1	8
75	Three-Dimensional Rogue Waves in Earthâ€™s Ionosphere. Galaxies, 2021, 9, 48.	3.0	8
76	The collisions of two ion acoustic solitary waves in a magnetized nonextensive plasma. Open Physics, 2014, 12, 805-812.	1.7	7
77	Three-dimensional modulational instability of dust acoustic waves in the presence of generalized (r,) Tj ETQq1 1 0.784314 rgBT /Overlo	2.5	7
78	Stability of dust acoustic wavepackets suffering from polarization force due to the presence of trapped ions. Plasma Physics Reports, 2017, 43, 756-763.	0.9	6
79	On the interaction of nonlinear ion acoustic solitary waves in non-ideal plasma incorporated with Cairns-Gurevich distributed electrons. Physics Open, 2020, 5, 100033.	1.5	6
80	Langmuir oscillations in a nonthermal nonextensive electron-positron plasma. Physics of Plasmas, 2017, 24, .	1.9	4
81	Cherenkov radiation waves in inhomogeneous dusty plasma. Physics of Wave Phenomena, 2013, 21, 226-230.	1.1	3
82	Ion Acoustic Solitary Waves and Double-Layer Propagation in an Unmagnetized Plasma With Degenerate Electrons. IEEE Transactions on Plasma Science, 2021, 49, 2629-2636.	1.3	1
83	Ion-acoustic solitary waves in multi-ion dusty plasmas. AIP Conference Proceedings, 2008, , .	0.4	0