Waleed Moslem

List of Publications by Year
in descending order

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117 papers	3,776 citations	117625 34 h-index	149698 56 g-index
121 all docs	121 docs citations	121 times ranked	838 citing authors

#	Article	IF	Citations
1	Modifications of single walled carbon nanotubes by ion-induced plasma. Results in Physics, 2022, 37, 105438.	4.1	2
2	Super rogue wave catalysis in Titanâ€™s ionosphere. Advances in Space Research, 2021, 67, 1412-1424.	2.6	9
3	Elucidation of Surface Nano-hillocks by Localized Plasma Expansion. Arabian Journal for Science and Engineering, 2021, 46, 793-800.	3.0	1
4	Arbitrary amplitude dust-acoustic waves in Jupiter atmosphere. Results in Physics, 2021, 21, 103792.	4.1	17
5	Effect of streaming velocity, magnetic field, and higher-order correction on the nature of ion acoustic solitons in the Venusian ionosphere. Physica Scripta, 2021, 96, 045602.	2.5	10
6	Ionic loss from Venus upper ionosphere via plasma wake. Advances in Space Research, 2021, 68, 1525-1532.	2.6	3
7	Evolution of ion-acoustic soliton waves in Venusâ€™s ionosphere permeated by the solar wind. Advances in Space Research, 2021, 67, 4110-4120.	2.6	12
8	On the propagation of electrostatic wave modes in the inhomogeneous ionospheric plasma of Venus. Physics of Plasmas, 2021, 28, .	1.9	5
9	Nonlinear dust-acoustic modes in homogeneous dusty plasmas: bifurcation analysis. Physica Scripta, 2021, 96, 125611.	2.5	6
10	Nonlinear dynamics in the jupiter magnetosphere: implications of dust-acoustic cnoidal mode. Physica Scripta, 2021, 96, 125637.	2.5	2
11	Ionospheric losses of Venus in the solar wind. Advances in Space Research, 2020, 65, 129-137.	2.6	12
12	Proliferation of soliton, explosive, shocklike, and periodic ion-acoustic waves in Titan's ionosphere. Physics of Plasmas, 2020, 27, .	1.9	10
13	Criteria of the electron pumping in electron-hole quantum plasma. Physica Scripta, 2020, 95, 085604.	2.5	5
14	Ion-acoustic waves at the night side of Titanâ€™s ionosphere: higher-order approximation. Communications in Theoretical Physics, 2020, 72, 055501.	2.5	5
15	Nonlinear ion-acoustic waves at Venus ionosphere. Advances in Space Research, 2020, 66, 1276-1285.	2.6	13
16	Stability of obliquely propagating 3D solitons in magnetized plasma with nonthermal distribution. Advances in Space Research, 2020, 66, 266-277.	2.6	9
17	Creation of surface nanometer-scale plasma region by irradiation with slow highly charged ions. Physica Scripta, 2020, 95, 095602.	2.5	4
18	Three-dimensional propagation of ion-acoustic waves in the plasma environment of the Venusian ionosphere. Physica Scripta, 2020, 95, 115603.	2.5	10

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19	Non-linear dynamics of electron-hole plasma induced by an electron beam. Plasma Research Express, 2019, 1, 035010.	0.9	4
20	Ion escape from the upper ionosphere of Titan triggered by the solar wind. Astrophysics and Space Science, 2019, 364, 1.	1.4	3
21	On the formation of nanostructures by inducing confined plasma expansion. Results in Physics, 2019, 15, 102696.	4.1	6
22	Generation of soliton, cnoidal, and periodic waves during pumping GaAs by an electron beam. Chaos, Solitons and Fractals, 2019, 124, 18-25.	5.1	11
23	Potentials of a moving test charge during the solar wind interaction with dusty magnetosphere of Jupiter. Physica Scripta, 2019, 94, 075601.	2.5	17
24	Head-On Collision of Electron-Acoustic Solitons in a Magnetized Plasma. IEEE Transactions on Plasma Science, 2019, 47, 762-769.	1.3	6
25	Interpretation of localized surface nano-structures. Periodicals of Engineering and Natural Sciences, 2019, 7, 881.	0.5	0
26	Shocklike soliton because of an impinge of protons and electrons solar particles with Venus ionosphere. Advances in Space Research, 2018, 61, 2190-2197.	2.6	12
27	Optimum performance of electron beam pumped GaAs and GaN. Physics of Plasmas, 2018, 25, .	1.9	18
28	Expansion of Titan atmosphere. Physics of Plasmas, 2017, 24, 052901.	1.9	7
29	Nonlinear phenomenon in nanostructures creation by fast cluster ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 102-105.	2.1	9
30	Development of Cnoidal Waves in Positively Charged Dusty Plasmas. IEEE Transactions on Plasma Science, 2017, 45, 2552-2560.	1.3	25
31	Solar wind implication on dust ion acoustic rogue waves. Physics of Plasmas, 2016, 23, 062121.	1.9	2
32	Nonlinear structures: Cnoidal, soliton, and periodical waves in quantum semiconductor plasma. Physics of Plasmas, 2016, 23, .	1.9	15
33	Nonlinear structures for extended Kortewegâ€“de Vries equation in multicomponent plasma. Pramana - Journal of Physics, 2016, 86, 581-597.	1.8	6
34	Nonlinear Waves in GaAs Semiconductor. Acta Physica Polonica A, 2016, 129, 472-477.	0.5	7
35	Rogue waves lead to the instability in GaN semiconductors. Scientific Reports, 2015, 5, 12245.	3.3	18
36	Ion-acoustic dark solitons collision in an ultracold neutral plasma. Physica Scripta, 2015, 90, 085606.	2.5	23

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37	Evolution of rogue waves in dusty plasmas. Physics of Plasmas, 2015, 22, .	1.9	28
38	Surface nanostructuring by ion-induced localized plasma expansion in zinc oxide. Applied Physics Letters, 2014, 104, .	3.3	16
39	Cylindrical and spherical soliton collision of electron-acoustic waves in non-Maxwellian plasma. Astrophysics and Space Science, 2014, 349, 773-780.	1.4	8
40	Head-on collision of ion-acoustic solitons in an ultracold neutral plasma. Astrophysics and Space Science, 2014, 350, 175-184.	1.4	26
41	Magnetosonic rogons in electron-ion plasma. Astrophysics and Space Science, 2014, 349, 5-10.	1.4	8
42	Shielding with the dynamics of electron-acoustic wave in multi-electron plasmas. Astrophysics and Space Science, 2014, 354, 395-399.	1.4	2
43	Nonlinear structures of the Korteweg-de Vries and modified Korteweg-de Vries equations in non-Maxwellian electron-positron-ion plasma: Solitons collision and rogue waves. Physics of Plasmas, 2014, 21, .	1.9	70
44	Beam driven upper-hybrid-wave instability in quantized semiconductor plasmas. Physics of Plasmas, 2014, 21, 020704.	1.9	14
45	On the fully nonlinear acoustic waves in a plasma with positrons beam impact and superthermal electrons. Physics of Plasmas, 2013, 20, .	1.9	28
46	Two-dimensional cylindrical ion-acoustic solitary and rogue waves in ultrarelativistic plasmas. Physics of Plasmas, 2013, 20, .	1.9	14
47	Quantum effects in electron beam pumped GaAs. Applied Physics Letters, 2013, 103, .	3.3	37
48	Nonplanar solitons collision in ultracold neutral plasmas. Physics of Plasmas, 2013, 20, .	1.9	18
49	Electrostatic rogue waves in a plasma with a relativistic electron beam. Journal of Plasma Physics, 2013, 79, 847-851.	2.1	6
50	Super rogue waves in ultracold neutral nonextensive plasmas. Journal of Plasma Physics, 2013, 79, 1049-1056.	2.1	14
51	Nonlinear structures in a nonextensive electron-positron-ion magnetoplasma. Physics of Plasmas, 2012, 19, .	1.9	63
52	Formation and dynamics of electrostatic solitary waves associated with relativistic electron beam. Physics of Plasmas, 2012, 19, 042105.	1.9	9
53	Formation of surface nano-structures by plasma expansion induced by highly charged ions. Physics of Plasmas, 2012, 19, 123510.	1.9	12
54	Freak waves in white dwarfs and magnetars. Physics of Plasmas, 2012, 19, .	1.9	48

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55	Self-similar expansion of white dwarfs. Astrophysics and Space Science, 2012, 342, 351-355.	1.4	18
56	Arbitrary amplitude ion-acoustic solitary waves in superthermal electron-positron-ion magnetoplasma. Astrophysics and Space Science, 2012, 342, 425-432.	1.4	33
57	Electronâ€“hole two-stream instability in a quantum semiconductor plasma with exchange-correlation effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2309-2313.	2.1	72
58	Amplitude modulation of hydromagnetic waves and associated rogue waves in magnetoplasmas. Physical Review E, 2012, 86, 036408.	2.1	44
59	Solar wind interactions with the dusty magnetosphere of Jupiter produce shocks and solitons associated with nonlinear drift waves. Journal of Geophysical Research, 2012, 117, .	3.3	20
60	Ion-acoustic waves in an inhomogeneous plasma with negative ions. Journal of King Saud University - Science, 2012, 24, 343-349.	3.5	8
61	Solitary acoustic pulses in quantum semiconductor plasmas. Applied Physics Letters, 2012, 101, .	3.3	50
62	ION SOLITARY PULSES IN WARM PLASMAS WITH ULTRARELATIVISTIC DEGENERATE ELECTRONS AND POSITRONS. Astrophysical Journal, 2012, 750, 72.	4.5	52
63	Three-dimensional ion-acoustic wave packet in magnetoplasmas with superthermal electrons. Plasma Physics and Controlled Fusion, 2012, 54, 035010.	2.1	36
64	Interaction of ion beam with dust grains produces dust-acoustic solitary waves in Herbig-Haro objects. Astrophysics and Space Science, 2012, 339, 185-193.	1.4	7
65	AlfvÃ©nic rogue waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1125-1128.	2.1	32
66	Nonlinear electrostatic excitations in electron-depleted electronegative dusty plasma with two-negative ion species. Astrophysics and Space Science, 2012, 337, 209-215.	1.4	25
67	Nonplanar dust ion-acoustic solitary and shock excitations in electronegative plasmas with trapped electrons. Astrophysics and Space Science, 2012, 337, 231-246.	1.4	16
68	Rogue wave in Titanâ€™s atmosphere. Astrophysics and Space Science, 2012, 338, 3-8.	1.4	71
69	On a plasma having nonextensive electrons and positrons: Rogue and solitary wave propagation. Physics of Plasmas, 2011, 18, .	1.9	98
70	Surface plasma rogue waves. Europhysics Letters, 2011, 96, 25002.	2.0	219
71	The optimum shielding around a test charge in plasmas containing two negative ions. Journal of Plasma Physics, 2011, 77, 663-673.	2.1	3
72	Dust-acoustic rogue waves in a nonextensive plasma. Physical Review E, 2011, 84, 066402.	2.1	189

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73	Nonlinear ion-acoustic structures in dusty plasma with superthermal electrons and positrons. Physics of Plasmas, 2011, 18, .	1.9	93
74	Time evolution of cylindrical and spherical shock waves in an ultracold neutral plasma with non-Maxwellian electrons. Europhysics Letters, 2011, 96, 65002.	2.0	12
75	Three-dimensional nonlinear SchrÃ¶dinger equation in electron-positron-ion magnetoplasmas. Physics of Plasmas, 2011, 18, 032302.	1.9	17
76	Langmuir rogue waves in electron-positron plasmas. Physics of Plasmas, 2011, 18, .	1.9	137
77	Fully nonlinear solitary waves in a dusty electronegative multispecies plasmas. Physics of Plasmas, 2011, 18, 042306.	1.9	24
78	Plasma with two-negative ions and immobile dust particles: planar and non-planar ion-acoustic wave propagation. European Physical Journal D, 2011, 61, 409-420.	1.3	18
79	On the generation of envelope solitons inÂtheÂpresence ofÂexcess superthermal electrons andÂpositrons. Astrophysics and Space Science, 2011, 333, 203-208.	1.4	40
80	Zakharov-Kuznetsov-Burgers equation in superthermal electron-positron-ion plasma. Astrophysics and Space Science, 2011, 335, 435-442.	1.4	76
81	Solitary and freak waves in a dusty plasma with negative ions. Physics of Plasmas, 2011, 18, .	1.9	33
82	Arbitrary amplitude ion-acoustic waves in a multicomponent plasma with superthermal species. Physics of Plasmas, 2011, 18, .	1.9	37
83	Three-dimensional cylindrical Kadomtsevâ€“Petviashvili equation in a dusty electronegative plasma. Journal of Plasma Physics, 2010, 76, 453-466.	2.1	22
84	Three dimensional cylindrical Kadomtsevâ€“Petviashvili equation in a very dense electron-positron-ion plasma. Physics of Plasmas, 2010, 17, 032305.	1.9	31
85	Electronâ€“positronâ€“ion plasma with kappa distribution: Ion acoustic soliton propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3216-3219.	2.1	99
86	Langmuir Shock Pulses in a Rotating Electron-Positron-Ion Magnetoplasma. , 2010, , .		2
87	Nonlinear Langmuir structures: Soliton and shock in a rotating weakly relativistic electron-positron magnetoplasma with stationary positive ions. Physics of Plasmas, 2010, 17, .	1.9	7
88	Electrostatic structures associated with dusty electronegative magnetoplasmas. New Journal of Physics, 2010, 12, 073010.	2.9	16
89	Head-on collision of ion-acoustic solitary waves in multicomponent plasmas with positrons. Physics of Plasmas, 2010, 17, 082311.	1.9	32
90	Finite amplitude solitary excitations in rotating magnetized nonthermal complex (dusty) plasmas. Physics of Plasmas, 2010, 17, 034501.	1.9	24

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91	Self-excited plasmon polaritons in counterstreaming quantum plasmas. Physics of Plasmas, 2009, 16, 122106.	1.9	5
92	Nonlinear electrostatic excitations in a weakly relativistic electron-positron-ion rotating magnetoplasma. Physics of Plasmas, 2009, 16, 102305.	1.9	11
93	Solitary and blow-up electrostatic excitations in rotating magnetized electronâ€“positronâ€“ion plasmas. New Journal of Physics, 2009, 11, 033028.	2.9	38
94	Planar and nonplanar ion-acoustic envelope solitary waves in a very dense electron-positron-ion plasma. European Physical Journal D, 2009, 51, 233-240.	1.3	46
95	Cylindrical and spherical ion-acoustic envelope solitons in multicomponent plasmas with positrons. Physical Review E, 2009, 79, 056402.	2.1	60
96	Self-excited surface plasmon-polaritons at the interface of counterstreaming plasmas. Physics of Plasmas, 2009, 16, 052102.	1.9	7
97	Fully nonlinear ion-acoustic solitary waves in a plasma with positive-negative ions and nonthermal electrons. Physics of Plasmas, 2009, 16, .	1.9	127
98	Wake potential with mobile positive/negative ions in multicomponent dusty plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6650-6652.	2.1	14
99	Nonlinear structures: Explosive, soliton, and shock in a quantum electron-positron-ion magnetoplasma. Physics of Plasmas, 2008, 15, .	1.9	88
100	Finite amplitude envelope surface solitons. Physics of Plasmas, 2008, 15, 042301.	1.9	5
101	Localized electrostatic excitations in a Thomasâ€“Fermi plasma containing degenerate electrons. Physics of Plasmas, 2008, 15, .	1.9	16
102	Parametric study of nonlinear electrostatic waves in two-dimensional quantum dusty plasmas. New Journal of Physics, 2008, 10, 023007.	2.9	23
103	Effect of dust charge fluctuation on the propagation of dust-ion acoustic waves in inhomogeneous mesospheric dusty plasma. Physics of Plasmas, 2008, 15, .	1.9	29
104	Solitary, explosive, and periodic solutions of the quantum Zakharov-Kuznetsov equation and its transverse instability. Physics of Plasmas, 2007, 14, 082308.	1.9	113
105	Nonlinear excitations in electron-positron-ion plasmas in accretion disks of active galactic nuclei. Physics of Plasmas, 2007, 14, .	1.9	67
106	Quantum dust-acoustic double layers. Physics of Plasmas, 2007, 14, 042107.	1.9	70
107	Linear and nonlinear ion-acoustic waves in an unmagnetized electron-positron-ion quantum plasma. Physics of Plasmas, 2007, 14, .	1.9	226
108	Ion thermal double layers in a pair-ion plasma containing charged dust impurities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 463-467.	2.1	23

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109	Fully nonlinear ion-sound waves in a dense Fermi magnetoplasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 606-610.	2.1	53
110	Higher-order Zakharovâ€“Kuznetsov equation for dust-acoustic solitary waves with dust size distribution. Planetary and Space Science, 2007, 55, 2192-2202.	1.7	22
111	Properties of linear and nonlinear ion thermal waves in a pair ion plasma containing charged dust impurities. Physics of Plasmas, 2006, 13, 122104.	1.9	23
112	Dustâ€“ionâ€“acoustic solitons and shocks in dusty plasmas. Chaos, Solitons and Fractals, 2006, 28, 994-999.	5.1	44
113	Dust-ion-acoustic solitons in a strong magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 290-295.	2.1	38
114	Higher-Order Contributions to Dust-Acoustic Waves in a Magnetized Dusty Plasmas. Physica Scripta, 2002, 65, 416-429.	2.5	37
115	Higher-order contributions to ion-acoustic solitary waves in a warm multicomponent plasma with an electron beam. Journal of Plasma Physics, 2000, 63, 139-155.	2.1	25
116	Cylindrical ion-acoustic waves in a warm multicomponent plasma. Journal of Plasma Physics, 2000, 63, 343-353.	2.1	42
117	Propagation of ion acoustic waves in a warm multicomponent plasma with an electron beam. Journal of Plasma Physics, 1999, 61, 177-189.	2.1	50