

# Waleed Moslem

## List of Publications by Year in descending order

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117  
papers

3,776  
citations

117571

34  
h-index

149623

56  
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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.	2.0	2
2	Super rogue wave catalysis in Titan's ionosphere. Advances in Space Research, 2021, 67, 1412-1424.	1.2	9
3	Elucidation of Surface Nano-hillocks by Localized Plasma Expansion. Arabian Journal for Science and Engineering, 2021, 46, 793-800.	1.7	1
4	Arbitrary amplitude dust-acoustic waves in Jupiter atmosphere. Results in Physics, 2021, 21, 103792.	2.0	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.	1.2	10
6	Ionic loss from Venus upper ionosphere via plasma wake. Advances in Space Research, 2021, 68, 1525-1532.	1.2	3
7	Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind. Advances in Space Research, 2021, 67, 4110-4120.	1.2	12
8	On the propagation of electrostatic wave modes in the inhomogeneous ionospheric plasma of Venus. Physics of Plasmas, 2021, 28, .	0.7	5
9	Nonlinear dust-acoustic modes in homogeneous dusty plasmas: bifurcation analysis. Physica Scripta, 2021, 96, 125611.	1.2	6
10	Nonlinear dynamics in the jupiter magnetosphere: implications of dust-acoustic cnoidal mode. Physica Scripta, 2021, 96, 125637.	1.2	2
11	Ionospheric losses of Venus in the solar wind. Advances in Space Research, 2020, 65, 129-137.	1.2	12
12	Proliferation of soliton, explosive, shocklike, and periodic ion-acoustic waves in Titan's ionosphere. Physics of Plasmas, 2020, 27, .	0.7	10
13	Criteria of the electron pumping in electron-hole quantum plasma. Physica Scripta, 2020, 95, 085604.	1.2	5
14	Ion-acoustic waves at the night side of Titan's ionosphere: higher-order approximation. Communications in Theoretical Physics, 2020, 72, 055501.	1.1	5
15	Nonlinear ion-acoustic waves at Venus ionosphere. Advances in Space Research, 2020, 66, 1276-1285.	1.2	13
16	Stability of obliquely propagating 3D solitons in magnetized plasma with nonthermal distribution. Advances in Space Research, 2020, 66, 266-277.	1.2	9
17	Creation of surface nanometer-scale plasma region by irradiation with slow highly charged ions. Physica Scripta, 2020, 95, 095602.	1.2	4
18	Three-dimensional propagation of ion-acoustic waves in the plasma environment of the Venusian ionosphere. Physica Scripta, 2020, 95, 115603.	1.2	10

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19	Non-linear dynamics of electron-hole plasma induced by an electron beam. Plasma Research Express, 2019, 1, 035010.	0.4	4
20	Ion escape from the upper ionosphere of Titan triggered by the solar wind. Astrophysics and Space Science, 2019, 364, 1.	0.5	3
21	On the formation of nanostructures by inducing confined plasma expansion. Results in Physics, 2019, 15, 102696.	2.0	6
22	Generation of soliton, cnoidal, and periodic waves during pumping GaAs by an electron beam. Chaos, Solitons and Fractals, 2019, 124, 18-25.	2.5	11
23	Potentials of a moving test charge during the solar wind interaction with dusty magnetosphere of Jupiter. Physica Scripta, 2019, 94, 075601.	1.2	17
24	Head-On Collision of Electron-Acoustic Solitons in a Magnetized Plasma. IEEE Transactions on Plasma Science, 2019, 47, 762-769.	0.6	6
25	Interpretation of localized surface nano-structures. Periodicals of Engineering and Natural Sciences, 2019, 7, 881.	0.3	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.	1.2	12
27	Optimum performance of electron beam pumped GaAs and GaN. Physics of Plasmas, 2018, 25, .	0.7	18
28	Expansion of Titan atmosphere. Physics of Plasmas, 2017, 24, 052901.	0.7	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.	0.9	9
30	Development of Cnoidal Waves in Positively Charged Dusty Plasmas. IEEE Transactions on Plasma Science, 2017, 45, 2552-2560.	0.6	25
31	Solar wind implication on dust ion acoustic rogue waves. Physics of Plasmas, 2016, 23, 062121.	0.7	2
32	Nonlinear structures: Cnoidal, soliton, and periodical waves in quantum semiconductor plasma. Physics of Plasmas, 2016, 23, .	0.7	15
33	Nonlinear structures for extended Korteweg-de Vries equation in multicomponent plasma. Pramana - Journal of Physics, 2016, 86, 581-597.	0.9	6
34	Nonlinear Waves in GaAs Semiconductor. Acta Physica Polonica A, 2016, 129, 472-477.	0.2	7
35	Rogue waves lead to the instability in GaN semiconductors. Scientific Reports, 2015, 5, 12245.	1.6	18
36	Ion-acoustic dark solitons collision in an ultracold neutral plasma. Physica Scripta, 2015, 90, 085606.	1.2	23

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37	Evolution of rogue waves in dusty plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	28
38	Surface nanostructuring by ion-induced localized plasma expansion in zinc oxide. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	16
39	Cylindrical and spherical soliton collision of electron-acoustic waves in non-Maxwellian plasma. <i>Astrophysics and Space Science</i> , 2014, 349, 773-780.	0.5	8
40	Head-on collision of ion-acoustic solitons in an ultracold neutral plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 175-184.	0.5	26
41	Magnetosonic rogons in electron-ion plasma. <i>Astrophysics and Space Science</i> , 2014, 349, 5-10.	0.5	8
42	Shielding with the dynamics of electron-acoustic wave in multi-electron plasmas. <i>Astrophysics and Space Science</i> , 2014, 354, 395-399.	0.5	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. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	70
44	Beam driven upper-hybrid-wave instability in quantized semiconductor plasmas. <i>Physics of Plasmas</i> , 2014, 21, 020704.	0.7	14
45	On the fully nonlinear acoustic waves in a plasma with positrons beam impact and superthermal electrons. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	28
46	Two-dimensional cylindrical ion-acoustic solitary and rogue waves in ultrarelativistic plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	14
47	Quantum effects in electron beam pumped GaAs. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	37
48	Nonplanar solitons collision in ultracold neutral plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	18
49	Electrostatic rogue waves in a plasma with a relativistic electron beam. <i>Journal of Plasma Physics</i> , 2013, 79, 847-851.	0.7	6
50	Super rogue waves in ultracold neutral nonextensive plasmas. <i>Journal of Plasma Physics</i> , 2013, 79, 1049-1056.	0.7	14
51	Nonlinear structures in a nonextensive electron-positron-ion magnetoplasma. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	63
52	Formation and dynamics of electrostatic solitary waves associated with relativistic electron beam. <i>Physics of Plasmas</i> , 2012, 19, 042105.	0.7	9
53	Formation of surface nano-structures by plasma expansion induced by highly charged ions. <i>Physics of Plasmas</i> , 2012, 19, 123510.	0.7	12
54	Freak waves in white dwarfs and magnetars. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	48

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55	Self-similar expansion of white dwarfs. <i>Astrophysics and Space Science</i> , 2012, 342, 351-355.	0.5	18
56	Arbitrary amplitude ion-acoustic solitary waves in superthermal electron-positron-ion magnetoplasma. <i>Astrophysics and Space Science</i> , 2012, 342, 425-432.	0.5	33
57	Electron-hole two-stream instability in a quantum semiconductor plasma with exchange-correlation effects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2309-2313.	0.9	72
58	Amplitude modulation of hydromagnetic waves and associated rogue waves in magnetoplasmas. <i>Physical Review E</i> , 2012, 86, 036408.	0.8	44
59	Solar wind interactions with the dusty magnetosphere of Jupiter produce shocks and solitons associated with nonlinear drift waves. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
60	Ion-acoustic waves in an inhomogeneous plasma with negative ions. <i>Journal of King Saud University - Science</i> , 2012, 24, 343-349.	1.6	8
61	Solitary acoustic pulses in quantum semiconductor plasmas. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	50
62	ION SOLITARY PULSES IN WARM PLASMAS WITH ULTRARELATIVISTIC DEGENERATE ELECTRONS AND POSITRONS. <i>Astrophysical Journal</i> , 2012, 750, 72.	1.6	52
63	Three-dimensional ion-acoustic wave packet in magnetoplasmas with superthermal electrons. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 035010.	0.9	36
64	Interaction of ion beam with dust grains produces dust-acoustic solitary waves in Herbig-Haro objects. <i>Astrophysics and Space Science</i> , 2012, 339, 185-193.	0.5	7
65	Alfvénic rogue waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1125-1128.	0.9	32
66	Nonlinear electrostatic excitations in electron-depleted electronegative dusty plasma with two-negative ion species. <i>Astrophysics and Space Science</i> , 2012, 337, 209-215.	0.5	25
67	Nonplanar dust ion-acoustic solitary and shock excitations in electronegative plasmas with trapped electrons. <i>Astrophysics and Space Science</i> , 2012, 337, 231-246.	0.5	16
68	Rogue wave in Titan's atmosphere. <i>Astrophysics and Space Science</i> , 2012, 338, 3-8.	0.5	71
69	On a plasma having nonextensive electrons and positrons: Rogue and solitary wave propagation. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	98
70	Surface plasma rogue waves. <i>Europhysics Letters</i> , 2011, 96, 25002.	0.7	219
71	The optimum shielding around a test charge in plasmas containing two negative ions. <i>Journal of Plasma Physics</i> , 2011, 77, 663-673.	0.7	3
72	Dust-acoustic rogue waves in a nonextensive plasma. <i>Physical Review E</i> , 2011, 84, 066402.	0.8	189

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73	Nonlinear ion-acoustic structures in dusty plasma with superthermal electrons and positrons. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	93
74	Time evolution of cylindrical and spherical shock waves in an ultracold neutral plasma with non-Maxwellian electrons. <i>Europhysics Letters</i> , 2011, 96, 65002.	0.7	12
75	Three-dimensional nonlinear Schrödinger equation in electron-positron-ion magnetoplasmas. <i>Physics of Plasmas</i> , 2011, 18, 032302.	0.7	17
76	Langmuir rogue waves in electron-positron plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	137
77	Fully nonlinear solitary waves in a dusty electronegative multispecies plasmas. <i>Physics of Plasmas</i> , 2011, 18, 042306.	0.7	24
78	Plasma with two-negative ions and immobile dust particles: planar and non-planar ion-acoustic wave propagation. <i>European Physical Journal D</i> , 2011, 61, 409-420.	0.6	18
79	On the generation of envelope solitons in the presence of excess superthermal electrons and positrons. <i>Astrophysics and Space Science</i> , 2011, 333, 203-208.	0.5	40
80	Zakharov-Kuznetsov-Burgers equation in superthermal electron-positron-ion plasma. <i>Astrophysics and Space Science</i> , 2011, 335, 435-442.	0.5	76
81	Solitary and freak waves in a dusty plasma with negative ions. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	33
82	Arbitrary amplitude ion-acoustic waves in a multicomponent plasma with superthermal species. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	37
83	Three-dimensional cylindrical Kadomtsev-Petviashvili equation in a dusty electronegative plasma. <i>Journal of Plasma Physics</i> , 2010, 76, 453-466.	0.7	22
84	Three dimensional cylindrical Kadomtsev-Petviashvili equation in a very dense electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2010, 17, 032305.	0.7	31
85	Electron-positron-ion plasma with kappa distribution: Ion acoustic soliton propagation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 3216-3219.	0.9	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. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	7
88	Electrostatic structures associated with dusty electronegative magnetoplasmas. <i>New Journal of Physics</i> , 2010, 12, 073010.	1.2	16
89	Head-on collision of ion-acoustic solitary waves in multicomponent plasmas with positrons. <i>Physics of Plasmas</i> , 2010, 17, 082311.	0.7	32
90	Finite amplitude solitary excitations in rotating magnetized nonthermal complex (dusty) plasmas. <i>Physics of Plasmas</i> , 2010, 17, 034501.	0.7	24

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91	Self-excited plasmon polaritons in counterstreaming quantum plasmas. <i>Physics of Plasmas</i> , 2009, 16, 122106.	0.7	5
92	Nonlinear electrostatic excitations in a weakly relativistic electron-positron-ion rotating magnetoplasma. <i>Physics of Plasmas</i> , 2009, 16, 102305.	0.7	11
93	Solitary and blow-up electrostatic excitations in rotating magnetized electron-positron-ion plasmas. <i>New Journal of Physics</i> , 2009, 11, 033028.	1.2	38
94	Planar and nonplanar ion-acoustic envelope solitary waves in a very dense electron-positron-ion plasma. <i>European Physical Journal D</i> , 2009, 51, 233-240.	0.6	46
95	Cylindrical and spherical ion-acoustic envelope solitons in multicomponent plasmas with positrons. <i>Physical Review E</i> , 2009, 79, 056402.	0.8	60
96	Self-excited surface plasmon-polaritons at the interface of counterstreaming plasmas. <i>Physics of Plasmas</i> , 2009, 16, 052102.	0.7	7
97	Fully nonlinear ion-acoustic solitary waves in a plasma with positive-negative ions and nonthermal electrons. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	127
98	Wake potential with mobile positive/negative ions in multicomponent dusty plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6650-6652.	0.9	14
99	Nonlinear structures: Explosive, soliton, and shock in a quantum electron-positron-ion magnetoplasma. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	88
100	Finite amplitude envelope surface solitons. <i>Physics of Plasmas</i> , 2008, 15, 042301.	0.7	5
101	Localized electrostatic excitations in a Thomas-Fermi plasma containing degenerate electrons. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	16
102	Parametric study of nonlinear electrostatic waves in two-dimensional quantum dusty plasmas. <i>New Journal of Physics</i> , 2008, 10, 023007.	1.2	23
103	Effect of dust charge fluctuation on the propagation of dust-ion acoustic waves in inhomogeneous mesospheric dusty plasma. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	29
104	Solitary, explosive, and periodic solutions of the quantum Zakharov-Kuznetsov equation and its transverse instability. <i>Physics of Plasmas</i> , 2007, 14, 082308.	0.7	113
105	Nonlinear excitations in electron-positron-ion plasmas in accretion disks of active galactic nuclei. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	67
106	Quantum dust-acoustic double layers. <i>Physics of Plasmas</i> , 2007, 14, 042107.	0.7	70
107	Linear and nonlinear ion-acoustic waves in an unmagnetized electron-positron-ion quantum plasma. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	226
108	Ion thermal double layers in a pair-ion plasma containing charged dust impurities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 362, 463-467.	0.9	23

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109	Fully nonlinear ion-sound waves in a dense Fermi magnetoplasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 366, 606-610.	0.9	53
110	Higher-order Zakharov-Kuznetsov equation for dust-acoustic solitary waves with dust size distribution. <i>Planetary and Space Science</i> , 2007, 55, 2192-2202.	0.9	22
111	Properties of linear and nonlinear ion thermal waves in a pair ion plasma containing charged dust impurities. <i>Physics of Plasmas</i> , 2006, 13, 122104.	0.7	23
112	Dust-ion-acoustic solitons and shocks in dusty plasmas. <i>Chaos, Solitons and Fractals</i> , 2006, 28, 994-999.	2.5	44
113	Dust-ion-acoustic solitons in a strong magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 351, 290-295.	0.9	38
114	Higher-Order Contributions to Dust-Acoustic Waves in a Magnetized Dusty Plasmas. <i>Physica Scripta</i> , 2002, 65, 416-429.	1.2	37
115	Higher-order contributions to ion-acoustic solitary waves in a warm multicomponent plasma with an electron beam. <i>Journal of Plasma Physics</i> , 2000, 63, 139-155.	0.7	25
116	Cylindrical ion-acoustic waves in a warm multicomponent plasma. <i>Journal of Plasma Physics</i> , 2000, 63, 343-353.	0.7	42
117	Propagation of ion acoustic waves in a warm multicomponent plasma with an electron beam. <i>Journal of Plasma Physics</i> , 1999, 61, 177-189.	0.7	50