

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
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121
all docs

121
docs citations

121
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear and nonlinear ion-acoustic waves in an unmagnetized electron-positron-ion quantum plasma. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	226
2	Surface plasma rogue waves. <i>Europhysics Letters</i> , 2011, 96, 25002.	2.0	219
3	Dust-acoustic rogue waves in a nonextensive plasma. <i>Physical Review E</i> , 2011, 84, 066402.	2.1	189
4	Langmuir rogue waves in electron-positron plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	137
5	Fully nonlinear ion-acoustic solitary waves in a plasma with positive-negative ions and nonthermal electrons. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	127
6	Solitary, explosive, and periodic solutions of the quantum Zakharov-Kuznetsov equation and its transverse instability. <i>Physics of Plasmas</i> , 2007, 14, 082308.	1.9	113
7	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.	2.1	99
8	On a plasma having nonextensive electrons and positrons: Rogue and solitary wave propagation. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	98
9	Nonlinear ion-acoustic structures in dusty plasma with superthermal electrons and positrons. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	93
10	Nonlinear structures: Explosive, soliton, and shock in a quantum electron-positron-ion magnetoplasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	88
11	Zakharov-Kuznetsov-Burgers equation in superthermal electron-positron-ion plasma. <i>Astrophysics and Space Science</i> , 2011, 335, 435-442.	1.4	76
12	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.	2.1	72
13	Rogue wave in Titan's atmosphere. <i>Astrophysics and Space Science</i> , 2012, 338, 3-8.	1.4	71
14	Quantum dust-acoustic double layers. <i>Physics of Plasmas</i> , 2007, 14, 042107.	1.9	70
15	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, .	1.9	70
16	Nonlinear excitations in electron-positron-ion plasmas in accretion disks of active galactic nuclei. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	67
17	Nonlinear structures in a nonextensive electron-positron-ion magnetoplasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	63
18	Cylindrical and spherical ion-acoustic envelope solitons in multicomponent plasmas with positrons. <i>Physical Review E</i> , 2009, 79, 056402.	2.1	60

#	ARTICLE	IF	CITATIONS
19	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.	2.1	53
20	ION SOLITARY PULSES IN WARM PLASMAS WITH ULTRARELATIVISTIC DEGENERATE ELECTRONS AND POSITRONS. <i>Astrophysical Journal</i> , 2012, 750, 72.	4.5	52
21	Propagation of ion acoustic waves in a warm multicomponent plasma with an electron beam. <i>Journal of Plasma Physics</i> , 1999, 61, 177-189.	2.1	50
22	Solitary acoustic pulses in quantum semiconductor plasmas. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	50
23	Freak waves in white dwarfs and magnetars. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	48
24	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.	1.3	46
25	Dust-ion acoustic solitons and shocks in dusty plasmas. <i>Chaos, Solitons and Fractals</i> , 2006, 28, 994-999.	5.1	44
26	Amplitude modulation of hydromagnetic waves and associated rogue waves in magnetoplasmas. <i>Physical Review E</i> , 2012, 86, 036408.	2.1	44
27	Cylindrical ion-acoustic waves in a warm multicomponent plasma. <i>Journal of Plasma Physics</i> , 2000, 63, 343-353.	2.1	42
28	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.	1.4	40
29	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.	2.1	38
30	Solitary and blow-up electrostatic excitations in rotating magnetized electron-positron-ion plasmas. <i>New Journal of Physics</i> , 2009, 11, 033028.	2.9	38
31	Higher-Order Contributions to Dust-Acoustic Waves in a Magnetized Dusty Plasmas. <i>Physica Scripta</i> , 2002, 65, 416-429.	2.5	37
32	Arbitrary amplitude ion-acoustic waves in a multicomponent plasma with superthermal species. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	37
33	Quantum effects in electron beam pumped GaAs. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	37
34	Three-dimensional ion-acoustic wave packet in magnetoplasmas with superthermal electrons. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 035010.	2.1	36
35	Solitary and freak waves in a dusty plasma with negative ions. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	33
36	Arbitrary amplitude ion-acoustic solitary waves in superthermal electron-positron-ion magnetoplasma. <i>Astrophysics and Space Science</i> , 2012, 342, 425-432.	1.4	33

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37	Head-on collision of ion-acoustic solitary waves in multicomponent plasmas with positrons. <i>Physics of Plasmas</i> , 2010, 17, 082311.	1.9	32
38	Alfvénic rogue waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1125-1128.	2.1	32
39	Three dimensional cylindrical Kadomtsev-Petviashvili equation in a very dense electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2010, 17, 032305.	1.9	31
40	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, .	1.9	29
41	On the fully nonlinear acoustic waves in a plasma with positrons beam impact and superthermal electrons. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	28
42	Evolution of rogue waves in dusty plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	28
43	Head-on collision of ion-acoustic solitons in an ultracold neutral plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 175-184.	1.4	26
44	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.	2.1	25
45	Nonlinear electrostatic excitations in electron-depleted electronegative dusty plasma with two-negative ion species. <i>Astrophysics and Space Science</i> , 2012, 337, 209-215.	1.4	25
46	Development of Cnoidal Waves in Positively Charged Dusty Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 2552-2560.	1.3	25
47	Finite amplitude solitary excitations in rotating magnetized nonthermal complex (dusty) plasmas. <i>Physics of Plasmas</i> , 2010, 17, 034501.	1.9	24
48	Fully nonlinear solitary waves in a dusty electronegative multispecies plasmas. <i>Physics of Plasmas</i> , 2011, 18, 042306.	1.9	24
49	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.	1.9	23
50	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.	2.1	23
51	Parametric study of nonlinear electrostatic waves in two-dimensional quantum dusty plasmas. <i>New Journal of Physics</i> , 2008, 10, 023007.	2.9	23
52	Ion-acoustic dark solitons collision in an ultracold neutral plasma. <i>Physica Scripta</i> , 2015, 90, 085606.	2.5	23
53	Higher-order Zakharov-Kuznetsov equation for dust-acoustic solitary waves with dust size distribution. <i>Planetary and Space Science</i> , 2007, 55, 2192-2202.	1.7	22
54	Three-dimensional cylindrical Kadomtsev-Petviashvili equation in a dusty electronegative plasma. <i>Journal of Plasma Physics</i> , 2010, 76, 453-466.	2.1	22

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55	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
56	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.	1.3	18
57	Self-similar expansion of white dwarfs. <i>Astrophysics and Space Science</i> , 2012, 342, 351-355.	1.4	18
58	Nonplanar solitons collision in ultracold neutral plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	18
59	Rogue waves lead to the instability in GaN semiconductors. <i>Scientific Reports</i> , 2015, 5, 12245.	3.3	18
60	Optimum performance of electron beam pumped GaAs and GaN. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	18
61	Three-dimensional nonlinear Schrödinger equation in electron-positron-ion magnetoplasmas. <i>Physics of Plasmas</i> , 2011, 18, 032302.	1.9	17
62	Potentials of a moving test charge during the solar wind interaction with dusty magnetosphere of Jupiter. <i>Physica Scripta</i> , 2019, 94, 075601.	2.5	17
63	Arbitrary amplitude dust-acoustic waves in Jupiter atmosphere. <i>Results in Physics</i> , 2021, 21, 103792.	4.1	17
64	Localized electrostatic excitations in a Thomas-Fermi plasma containing degenerate electrons. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	16
65	Electrostatic structures associated with dusty electronegative magnetoplasmas. <i>New Journal of Physics</i> , 2010, 12, 073010.	2.9	16
66	Nonplanar dust ion-acoustic solitary and shock excitations in electronegative plasmas with trapped electrons. <i>Astrophysics and Space Science</i> , 2012, 337, 231-246.	1.4	16
67	Surface nanostructuring by ion-induced localized plasma expansion in zinc oxide. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	16
68	Nonlinear structures: Cnoidal, soliton, and periodical waves in quantum semiconductor plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	15
69	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.	2.1	14
70	Two-dimensional cylindrical ion-acoustic solitary and rogue waves in ultrarelativistic plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	14
71	Super rogue waves in ultracold neutral nonextensive plasmas. <i>Journal of Plasma Physics</i> , 2013, 79, 1049-1056.	2.1	14
72	Beam driven upper-hybrid-wave instability in quantized semiconductor plasmas. <i>Physics of Plasmas</i> , 2014, 21, 020704.	1.9	14

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73	Nonlinear ion-acoustic waves at Venus ionosphere. <i>Advances in Space Research</i> , 2020, 66, 1276-1285.	2.6	13
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.	2.0	12
75	Formation of surface nano-structures by plasma expansion induced by highly charged ions. <i>Physics of Plasmas</i> , 2012, 19, 123510.	1.9	12
76	Shocklike soliton because of an impinge of protons and electrons solar particles with Venus ionosphere. <i>Advances in Space Research</i> , 2018, 61, 2190-2197.	2.6	12
77	Ionospheric losses of Venus in the solar wind. <i>Advances in Space Research</i> , 2020, 65, 129-137.	2.6	12
78	Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind. <i>Advances in Space Research</i> , 2021, 67, 4110-4120.	2.6	12
79	Nonlinear electrostatic excitations in a weakly relativistic electron-positron-ion rotating magnetoplasma. <i>Physics of Plasmas</i> , 2009, 16, 102305.	1.9	11
80	Generation of soliton, cnoidal, and periodic waves during pumping GaAs by an electron beam. <i>Chaos, Solitons and Fractals</i> , 2019, 124, 18-25.	5.1	11
81	Proliferation of soliton, explosive, shocklike, and periodic ion-acoustic waves in Titan's ionosphere. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	10
82	Effect of streaming velocity, magnetic field, and higher-order correction on the nature of ion acoustic solitons in the Venusian ionosphere. <i>Physica Scripta</i> , 2021, 96, 045602.	2.5	10
83	Three-dimensional propagation of ion-acoustic waves in the plasma environment of the Venusian ionosphere. <i>Physica Scripta</i> , 2020, 95, 115603.	2.5	10
84	Formation and dynamics of electrostatic solitary waves associated with relativistic electron beam. <i>Physics of Plasmas</i> , 2012, 19, 042105.	1.9	9
85	Nonlinear phenomenon in nanostructures creation by fast cluster ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 102-105.	2.1	9
86	Stability of obliquely propagating 3D solitons in magnetized plasma with nonthermal distribution. <i>Advances in Space Research</i> , 2020, 66, 266-277.	2.6	9
87	Super rogue wave catalysis in Titan's ionosphere. <i>Advances in Space Research</i> , 2021, 67, 1412-1424.	2.6	9
88	Ion-acoustic waves in an inhomogeneous plasma with negative ions. <i>Journal of King Saud University - Science</i> , 2012, 24, 343-349.	3.5	8
89	Cylindrical and spherical soliton collision of electron-acoustic waves in non-Maxwellian plasma. <i>Astrophysics and Space Science</i> , 2014, 349, 773-780.	1.4	8
90	Magnetosonic rogons in electron-ion plasma. <i>Astrophysics and Space Science</i> , 2014, 349, 5-10.	1.4	8

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91	Self-excited surface plasmon-polaritons at the interface of counterstreaming plasmas. <i>Physics of Plasmas</i> , 2009, 16, 052102.	1.9	7
92	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, .	1.9	7
93	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.	1.4	7
94	Expansion of Titan atmosphere. <i>Physics of Plasmas</i> , 2017, 24, 052901.	1.9	7
95	Nonlinear Waves in GaAs Semiconductor. <i>Acta Physica Polonica A</i> , 2016, 129, 472-477.	0.5	7
96	Electrostatic rogue waves in a plasma with a relativistic electron beam. <i>Journal of Plasma Physics</i> , 2013, 79, 847-851.	2.1	6
97	Nonlinear structures for extended Korteweg-de Vries equation in multicomponent plasma. <i>Pramana - Journal of Physics</i> , 2016, 86, 581-597.	1.8	6
98	On the formation of nanostructures by inducing confined plasma expansion. <i>Results in Physics</i> , 2019, 15, 102696.	4.1	6
99	Head-On Collision of Electron-Acoustic Solitons in a Magnetized Plasma. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 762-769.	1.3	6
100	Nonlinear dust-acoustic modes in homogeneous dusty plasmas: bifurcation analysis. <i>Physica Scripta</i> , 2021, 96, 125611.	2.5	6
101	Finite amplitude envelope surface solitons. <i>Physics of Plasmas</i> , 2008, 15, 042301.	1.9	5
102	Self-excited plasmon polaritons in counterstreaming quantum plasmas. <i>Physics of Plasmas</i> , 2009, 16, 122106.	1.9	5
103	Criteria of the electron pumping in electron-hole quantum plasma. <i>Physica Scripta</i> , 2020, 95, 085604.	2.5	5
104	Ion-acoustic waves at the night side of Titan's ionosphere: higher-order approximation. <i>Communications in Theoretical Physics</i> , 2020, 72, 055501.	2.5	5
105	On the propagation of electrostatic wave modes in the inhomogeneous ionospheric plasma of Venus. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	5
106	Non-linear dynamics of electron-hole plasma induced by an electron beam. <i>Plasma Research Express</i> , 2019, 1, 035010.	0.9	4
107	Creation of surface nanometer-scale plasma region by irradiation with slow highly charged ions. <i>Physica Scripta</i> , 2020, 95, 095602.	2.5	4
108	The optimum shielding around a test charge in plasmas containing two negative ions. <i>Journal of Plasma Physics</i> , 2011, 77, 663-673.	2.1	3

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109	Ion escape from the upper ionosphere of Titan triggered by the solar wind. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	3
110	Ionic loss from Venus upper ionosphere via plasma wake. <i>Advances in Space Research</i> , 2021, 68, 1525-1532.	2.6	3
111	Langmuir Shock Pulses in a Rotating Electron-Positron-Ion Magnetoplasma. , 2010, , .		2
112	Shielding with the dynamics of electron-acoustic wave in multi-electron plasmas. <i>Astrophysics and Space Science</i> , 2014, 354, 395-399.	1.4	2
113	Solar wind implication on dust ion acoustic rogue waves. <i>Physics of Plasmas</i> , 2016, 23, 062121.	1.9	2
114	Modifications of single walled carbon nanotubes by ion-induced plasma. <i>Results in Physics</i> , 2022, 37, 105438.	4.1	2
115	Nonlinear dynamics in the jupiter magnetosphere: implications of dust-acoustic cnoidal mode. <i>Physica Scripta</i> , 2021, 96, 125637.	2.5	2
116	Elucidation of Surface Nano-hillocks by Localized Plasma Expansion. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 793-800.	3.0	1
117	Interpretation of localized surface nano-structures. <i>Periodicals of Engineering and Natural Sciences</i> , 2019, 7, 881.	0.5	0