

Arshad M Mirza

List of Publications by Year in descending order

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98
papers

794
citations

687363

13
h-index

713466

21
g-index

101
all docs

101
docs citations

101
times ranked

279
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear and nonlinear fluctuations of electron temperature gradient driven mode and electron acoustic mode in a two-electron temperature nonthermal magnetized plasma. Contributions To Plasma Physics, 2021, 61, .	1.1	0
2	Contribution of the generalized (r , q) distributed electrons in the formation of nonlinear ion acoustic waves in upper ionospheric plasmas. AIP Advances, 2021, 11, .	1.3	11
3	Head-on collision of nonlinear electrostatic shock waves in a relativistically degenerate plasma. Physica Scripta, 2020, 95, 015601.	2.5	8
4	Ion-acoustic dipolar vortex in degenerate magnetoplasma with ions/electrons thermal corrections. Chaos, 2020, 30, 073142.	2.5	2
5	Nonlinear cnoidal waves and solitary structures in unmagnetized plasmas with generalized (r , q) distributed electrons. Physica Scripta, 2020, 95, 075605.	2.5	6
6	Dipolar and Kelvin-Stuart vortices in magnetoplasmas with non-Maxwellian electron distribution. Astrophysics and Space Science, 2020, 365, 1.	1.4	10
7	Magnetosonic shocklets in electron-positron-ion plasmas. Physica Scripta, 2020, 95, 075601.	2.5	2
8	Shocklets in the comet Halley plasma. Physics of Plasmas, 2020, 27, .	1.9	7
9	Ion-acoustic shocklets in F-region of ionosphere with non-Maxwellian electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126568.	2.1	2
10	ITG mode driven vortices in spatially inhomogeneous magnetoplasma with generalized (r , q) distribution. Physica Scripta, 2020, 95, 105606.	2.5	4
11	Shear flow driven counter rotating vortices in non-uniform magnetoplasmas with warm ions and generalized (r , q) distributed electrons. Physica Scripta, 2019, 94, 125603.	2.5	13
12	Arbitrary Amplitude Oblique Electrostatic Solitary Waves in a Degenerate Cold Dusty Magnetoplasma. IEEE Transactions on Plasma Science, 2019, 47, 4151-4158.	1.3	7
13	Head on interaction of magnetoacoustic solitons in a spin-1/2 dense plasma with geometrical effects. Physica Scripta, 2019, 94, 125602.	2.5	3
14	Solitary waves with electron temperature inhomogeneity and shear flow in an electron ion magnetoplasma. Physics of Plasmas, 2019, 26, 032112.	1.9	1
15	Modulational instability and ion-acoustic envelopes in dense plasmas with trapped/untrapped electrons. Physics of Plasmas, 2019, 26, 032101.	1.9	6
16	Nonlinear structure formation in ion-temperature-gradient driven drift waves in pair-ion plasma with nonthermal electron distribution. Physics of Plasmas, 2018, 25, .	1.9	5
17	Electron Bernstein waves in a collisionless magnetoplasma with Cairns distribution function. Canadian Journal of Physics, 2018, 96, 406-410.	1.1	0
18	Magnetoacoustic shocks with geometrical effects in spin-1/2 dense plasmas. Physics of Plasmas, 2018, 25, .	1.9	2

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19	Analytical and numerical study of perpendicularly propagating kinetic mode in magnetized plasmas with Vasyliunas-Cairns distribution. <i>Physics of Plasmas</i> , 2018, 25, 082101.	1.9	2
20	Whistler waves with electron temperature anisotropy and non-Maxwellian distribution functions. <i>AIP Advances</i> , 2018, 8, 055227.	1.3	12
21	Investigation of colliding nonlinear structures in a relativistically degenerate plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	8
22	Ion-Temperature-Gradient-Driven Modes with Nonthermal Electron Distributions in Bi-ion Dusty Magnetoplasma. <i>Brazilian Journal of Physics</i> , 2017, 47, 302-309.	1.4	1
23	Formation of solitary waves and oscillatory shocklets in a two-temperature electron κ -distributed plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8
24	Solitary waves in a degenerate relativistic plasma with ionic pressure anisotropy and electron trapping effects. <i>Physics of Plasmas</i> , 2017, 24, 052108.	1.9	15
25	Tripolar vortices in ion-temperature-gradient mode with non-Maxwellian electrons in an inhomogeneous magnetoplasma. <i>Canadian Journal of Physics</i> , 2017, 95, 650-654.	1.1	0
26	Unique features of parallel whistler instability in a plasma with anisotropic Cairns distribution. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	10
27	Linear and Nonlinear Coupling of Electrostatic Drift and Acoustic Perturbations in a Nonuniform Bi-Ion Plasma with Non-Maxwellian Electrons. <i>Brazilian Journal of Physics</i> , 2017, 47, 617-627.	1.4	4
28	Large and small amplitude compressional Alfvénic shocks in an electron depleted dusty plasma. <i>Physics of Plasmas</i> , 2017, 24, 063704.	1.9	0
29	Shear-flow driven dissipative instability and investigation of nonlinear drift-vortex modes in dusty plasmas with non-thermal ion population. <i>Physics of Plasmas</i> , 2017, 24, 123701.	1.9	1
30	Large-amplitude dust acoustic shocklets in non-Maxwellian dusty plasmas. <i>Physics of Plasmas</i> , 2017, 24, 103706.	1.9	3
31	Modulational instability of electrostatic waves in a magnetized dusty plasma with kappa distributed electrons. <i>Physics of Plasmas</i> , 2017, 24, 113707.	1.9	6
32	Nonlinear vortex structures with perpendicular shear flow, hot ions, and nonthermal distribution of electrons. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	6
33	Ion temperature gradient mode driven solitons and shocks. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	14
34	Magnetoacoustic solitons and shocks in dense astrophysical plasmas with relativistic degenerate electrons. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	4
35	Ion-Acoustic Vortices in Two-Electron-Temperature Magnetoplasma with Cairns's Distributed Electrons and in the Presence of Ion Shear Flow. <i>Brazilian Journal of Physics</i> , 2016, 46, 157-162.	1.4	3
36	Modulationally stable envelope solitons in astrophysical magnetoplasmas with degenerate relativistic electrons. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	3

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37	Dust-ion-acoustic envelopes and modulational instability with relativistic degenerate electrons. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	7
38	Toroidal ion-temperature-gradient driven vortices in an inhomogeneous magnetoplasma with non-Maxwellian electrons. <i>Physics of Plasmas</i> , 2015, 22, 092313.	1.9	13
39	Electron acoustic solitons in magneto-rotating electron-positron-ion plasma with nonthermal electrons and positrons. <i>Astrophysics and Space Science</i> , 2015, 355, 233-242.	1.4	8
40	Electron acoustic wave driven vortices with non-Maxwellian hot electrons in magnetoplasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	3
41	Shear flow driven counter rotating vortices in an inhomogeneous dusty magnetoplasma. <i>Astrophysics and Space Science</i> , 2014, 349, 829-834.	1.4	4
42	Landau damping and kinetic instability in non-Maxwellian highly electronegative multi-species plasma. <i>Astrophysics and Space Science</i> , 2014, 349, 753-763.	1.4	14
43	Ion-temperature-gradient driven modes in dust-contaminated plasma with nonthermal electron distribution and dust charge fluctuations. <i>Astrophysics and Space Science</i> , 2014, 350, 565-572.	1.4	11
44	Stability criterion for the non-Maxwellian permeating plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 169-174.	1.4	9
45	Shear flow driven tripolar vortices in a nonuniform electron-ion magnetoplasma with non-Maxwellian electrons. <i>Astrophysics and Space Science</i> , 2014, 350, 517-521.	1.4	7
46	Ion-acoustic waves in non-Maxwellian magnetospheric electron-positron-ion plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 585-590.	1.4	12
47	Electrostatic electron acoustic solitons in electron-positron-ion plasma with superthermal electrons and positrons. <i>Astrophysics and Space Science</i> , 2014, 349, 255-263.	1.4	26
48	Numerical study of ion acoustic shock waves in dense quantum plasma. <i>Physics of Plasmas</i> , 2014, 21, 032705.	1.9	5
49	Dust-acoustic solitary and rogue waves in a Thomas-Fermi degenerate dusty plasma. <i>Astrophysics and Space Science</i> , 2014, 353, 515-523.	1.4	15
50	Obliquely propagating quasi one dimensional electrostatic solitary structures in dense magnetoplasmas with trapped electrons. <i>Astrophysics and Space Science</i> , 2014, 352, 621-626.	1.4	9
51	Vortex formation in nonlinearly coupled modes in a magnetized quantum plasma. <i>Astrophysics and Space Science</i> , 2013, 346, 279-284.	1.4	0
52	Planar and nonplanar ion acoustic shock waves in relativistic degenerate astrophysical electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2013, 20, 042305.	1.9	39
53	Ion-acoustic solitons in pair-ion plasma with non-thermal electrons. <i>Astrophysics and Space Science</i> , 2013, 344, 135-143.	1.4	25
54	Tripolar vortex formation in dense quantum plasma with ion-temperature-gradients. <i>Physics of Plasmas</i> , 2012, 19, 052303.	1.9	7

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55	Ion-acoustic vortex formation in a non-uniform two-electron-temperature magnetoplasma with sheared ion flow. <i>Journal of Plasma Physics</i> , 2012, 78, 65-69.	2.1	1
56	Sheared ion flow driven nonlinear coherent structures in inhomogeneous electron-positron-ion quantum magnetoplasmas. <i>Astrophysics and Space Science</i> , 2012, 342, 443-447.	1.4	5
57	The effects of nonthermal electron distributions on ion-temperature-gradient driven drift-wave instabilities in electron-ion plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	19
58	Landau damping of ion acoustic wave in Lorentzian multi-ion plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	26
59	Shear driven electromagnetic drift-waves in a nonuniform dense magnetoplasma. <i>Physics of Plasmas</i> , 2011, 18, 082708.	1.9	0
60	Formation of dipolar vortices and vortex streets due to nonlinearly interacting ion-temperature-gradient-driven modes in dense magnetoplasmas. <i>Journal of Plasma Physics</i> , 2011, 77, 245-255.	2.1	2
61	Magnetic electron-drift vortex modes in an inhomogeneous quantum plasma. <i>Journal of Plasma Physics</i> , 2011, 77, 367-375.	2.1	2
62	Planar and cylindrical magnetosonic solitary and shock waves in dissipative, hot electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2011, 18, 052307.	1.9	21
63	Parallel and perpendicular velocity sheared flows driven tripolar vortices in an inhomogeneous electron-ion quantum magnetoplasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	1
64	Revisiting coupled Shuklaâ€‘Varma and convective cell mode in classical and quantum dusty magnetoplasmas. <i>Journal of Plasma Physics</i> , 2010, 76, 547-552.	2.1	6
65	A new equation in two dimensional fast magnetoacoustic shock waves in electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2010, 17, 032314.	1.9	22
66	Electron thermal effect on linear and nonlinear coupled Shuklaâ€‘Varma and convective cell modes in dust-contaminated magnetoplasma. <i>Physics of Plasmas</i> , 2010, 17, 113702.	1.9	4
67	Electrostatic drift-wave instability in a nonuniform quantum magnetoplasma with parallel velocity shear flows. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	8
68	Perpendicular propagating electromagnetic envelope solitons in electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2010, 17, 052308.	1.9	8
69	Dipolar vortex formation in electromagnetic ion-temperature-gradient driven waves in a dust-contaminated magnetoplasma. <i>Physics of Plasmas</i> , 2010, 17, 062301.	1.9	2
70	Electrostatic pair-ion solitons in nonplanar geometries. <i>Physics of Plasmas</i> , 2010, 17, 034504.	1.9	10
71	Electron-acoustic vortices in multicomponent magnetoplasma. <i>Physics of Plasmas</i> , 2010, 17, 054505.	1.9	5
72	Electrostatic solitary ion waves in dense electron-positron-ion magnetoplasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	12

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73	Study of plasma parameters in a staged pinch device using current-stepping technique. Journal of Plasma Physics, 2009, 75, 509-516.	2.1	0
74	Oblique modulation of ion-acoustic waves and envelope solitons in electron-positron-ion plasma. Physics of Plasmas, 2009, 16, .	1.9	15
75	Ion acoustic shock waves in electron-positron-ion quantum plasma. Physics of Plasmas, 2008, 15, .	1.9	55
76	Modulation instability of low-frequency electrostatic ion waves in magnetized electron-positron-ion plasma. Physics of Plasmas, 2008, 15, .	1.9	39
77	Effect of self-gravitation and dust-charge fluctuations on the shielding and energy loss of $N\tilde{A}$ -M projectiles in a collisional dusty plasma. Physics of Plasmas, 2007, 14, 032110.	1.9	0
78	Shielding of $N\tilde{A}$ -M projectiles in a collisional, self-gravitating, generalized Lorentzian dusty plasma. Physics of Plasmas, 2007, 14, .	1.9	7
79	Vortex formation in a non-uniform self-gravitating dusty magnetoplasma. Journal of Plasma Physics, 2007, 73, 591-598.	2.1	0
80	Effect of self-gravitation on the energy loss of pair of projectiles in dusty plasma. Physics of Plasmas, 2006, 13, 052106.	1.9	5
81	Nonlinear dynamics of electrostatic ion-temperature-gradient modes in a dust-contaminated plasma with variable charge and sheared ion flows. Physics of Plasmas, 2006, 13, 082302.	1.9	7
82	Chaotic behavior of nonlinearly coupled electrostatic and electromagnetic modes in electron-positron-ion magnetoplasma with equilibrium flows. Physics of Plasmas, 2006, 13, 062308.	1.9	2
83	Energy loss of charged projectiles in a self-gravitating Lorentzian dusty plasma. Physics of Plasmas, 2006, 13, 072107.	1.9	6
84	Effect of ion-temperature gradients on the formation of drift-Alfvén vortices in electron-positron-ion magnetoplasma with equilibrium flows. Physics of Plasmas, 2005, 12, 052306.	1.9	2
85	Shear flow driven drift waves and the counter-rotating vortices. Physics of Plasmas, 2005, 12, 104504.	1.9	13
86	Effect of charge fluctuations and collisions on the energy loss of $N\tilde{A}$ -M projectiles for a generalized Lorentzian dusty plasma. Physics of Plasmas, 2005, 12, 062108.	1.9	9
87	Sheared-flow-driven ion-acoustic drift-wave instability and the formation of quadrupolar vortices in a nonuniform electron-positron-ion magnetoplasma. Physics of Plasmas, 2004, 11, 4341-4345.	1.9	8
88	Electrostatic vortices associated with ion-temperature-gradient driven drift modes in electron-positron-ion plasmas. Physics of Plasmas, 2004, 11, 4727-4732.	1.9	9
89	Effect of grain-size distribution on the energy loss of a pair of charged projectiles in a dust-contaminated plasma. Physics of Plasmas, 2003, 10, 4253-4259.	1.9	8
90	Formation of quadrupolar vortices in ion-temperature-gradient modes. Physics of Plasmas, 2003, 10, 2819-2823.	1.9	8

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91	Fully nonlinear dust kinetic Alfvén waves. <i>Physics of Plasmas</i> , 2002, 9, 3794-3801.	1.9	25
92	Counter-Rotating Coupled Drift-Acoustic Vortices in the Presence of Sheared Ion Flows. <i>Physica Scripta</i> , 2000, 62, 409-412.	2.5	7
93	Radiative collapse in an impurity-seeded spinning gas-puff staged pinch. <i>Journal of Plasma Physics</i> , 1999, 61, 77-87.	2.1	2
94	Order and chaos in ETC-driven drift-dissipative waves with sheared flows. <i>Journal of Plasma Physics</i> , 1999, 62, 531-540.	2.1	0
95	Order and chaos in the magnetic electron drift vortex mode. <i>Journal of Plasma Physics</i> , 1998, 59, 499-503.	2.1	3
96	Fusion conditions in a finite-thickness gas-puff staged Z -pinch. <i>Journal of Plasma Physics</i> , 1994, 52, 365-371.	2.1	3
97	THEORETICAL MODEL FOR A FINITE-THICKNESS GAS-PUFF Z -PINCH. <i>Modern Physics Letters B</i> , 1993, 07, 1655-1660.	1.9	2
98	Formation of solitons and shocks in toroidal ion temperature gradient mode in the presence of non-Maxwellian electrons. <i>Contributions To Plasma Physics</i> , 0, , e202000209.	1.1	2