

# Arshad M Mirza

## List of Publications by Year in descending order

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98  
papers

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citations

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13  
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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Ion acoustic shock waves in electron-positron-ion quantum plasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	55
2	Modulation instability of low-frequency electrostatic ion waves in magnetized electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	39
3	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
4	Landau damping of ion acoustic wave in Lorentzian multi-ion plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	26
5	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
6	Fully nonlinear dust kinetic Alfvén waves. <i>Physics of Plasmas</i> , 2002, 9, 3794-3801.	1.9	25
7	Ion-acoustic solitons in pair-ion plasma with non-thermal electrons. <i>Astrophysics and Space Science</i> , 2013, 344, 135-143.	1.4	25
8	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
9	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
10	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
11	Oblique modulation of ion-acoustic waves and envelope solitons in electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	15
12	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
13	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
14	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
15	Ion temperature gradient mode driven solitons and shocks. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	14
16	Shear flow driven drift waves and the counter-rotating vortices. <i>Physics of Plasmas</i> , 2005, 12, 104504.	1.9	13
17	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
18	Shear flow driven counter rotating vortices in non-uniform magnetoplasmas with warm ions and generalized ( $\langle v_r \rangle$ , $\langle v_\theta \rangle$ ) distributed electrons. <i>Physica Scripta</i> , 2019, 94, 125603.	2.5	13

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19	Electrostatic solitary ion waves in dense electron-positron-ion magnetoplasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	12
20	Ion-acoustic waves in non-Maxwellian magnetospheric electron-positron-ion plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 585-590.	1.4	12
21	Whistler waves with electron temperature anisotropy and non-Maxwellian distribution functions. <i>AIP Advances</i> , 2018, 8, 055227.	1.3	12
22	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
23	Contribution of the generalized ( $\langle i \rangle r \langle /i \rangle$ , $\langle i \rangle q \langle /i \rangle$ ) distributed electrons in the formation of nonlinear ion acoustic waves in upper ionospheric plasmas. <i>AIP Advances</i> , 2021, 11, .	1.3	11
24	Electrostatic pair-ion solitons in nonplanar geometries. <i>Physics of Plasmas</i> , 2010, 17, 034504.	1.9	10
25	Unique features of parallel whistler instability in a plasma with anisotropic Cairns distribution. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	10
26	Dipolar and Kelvin-Stuartâ€™s catâ€™s eyes vortices in magnetoplasmas with non-Maxwellian electron distribution. <i>Astrophysics and Space Science</i> , 2020, 365, 1.	1.4	10
27	Electrostatic vortices associated with ion-temperature-gradient driven drift modes in electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2004, 11, 4727-4732.	1.9	9
28	Effect of charge fluctuations and collisions on the energy loss of $N\tilde{A}$ -M projectiles for a generalized Lorentzian dusty plasma. <i>Physics of Plasmas</i> , 2005, 12, 062108.	1.9	9
29	Stability criterion for the non-Maxwellian permeating plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 169-174.	1.4	9
30	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
31	Effect of grain-size distribution on the energy loss of a pair of charged projectiles in a dust-contaminated plasma. <i>Physics of Plasmas</i> , 2003, 10, 4253-4259.	1.9	8
32	Formation of quadrupolar vortices in ion-temperature-gradient modes. <i>Physics of Plasmas</i> , 2003, 10, 2819-2823.	1.9	8
33	Sheared-flow-driven ion-acoustic drift-wave instability and the formation of quadrupolar vortices in a nonuniform electronâ€™positronâ€™ion magnetoplasma. <i>Physics of Plasmas</i> , 2004, 11, 4341-4345.	1.9	8
34	Electrostatic drift-wave instability in a nonuniform quantum magnetoplasma with parallel velocity shear flows. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	8
35	Perpendicular propagating electromagnetic envelope solitons in electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2010, 17, 052308.	1.9	8
36	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

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37	Formation of solitary waves and oscillatory shocklets in a two-temperature electron $\kappa$ -distributed plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8
38	Investigation of colliding nonlinear structures in a relativistically degenerate plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	8
39	Head-on collision of nonlinear electrostatic shock waves in a relativistically degenerate plasma. <i>Physica Scripta</i> , 2020, 95, 015601.	2.5	8
40	Counter-Rotating Coupled Drift-Acoustic Vortices in the Presence of Sheared Ion Flows. <i>Physica Scripta</i> , 2000, 62, 409-412.	2.5	7
41	Nonlinear dynamics of electrostatic ion-temperature-gradient modes in a dust-contaminated plasma with variable charge and sheared ion flows. <i>Physics of Plasmas</i> , 2006, 13, 082302.	1.9	7
42	Shielding of $N\tilde{A}$ -M projectiles in a collisional, self-gravitating, generalized Lorentzian dusty plasma. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	7
43	Tripolar vortex formation in dense quantum plasma with ion-temperature-gradients. <i>Physics of Plasmas</i> , 2012, 19, 052303.	1.9	7
44	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
45	Dust-ion-acoustic envelopes and modulational instability with relativistic degenerate electrons. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	7
46	Arbitrary Amplitude Oblique Electrostatic Solitary Waves in a Degenerate Cold Dusty Magnetoplasma. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 4151-4158.	1.3	7
47	Shocklets in the comet Halley plasma. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
48	Energy loss of charged projectiles in a self-gravitating Lorentzian dusty plasma. <i>Physics of Plasmas</i> , 2006, 13, 072107.	1.9	6
49	Revisiting coupled Shukla-Varma and convective cell mode in classical and quantum dusty magnetoplasmas. <i>Journal of Plasma Physics</i> , 2010, 76, 547-552.	2.1	6
50	Nonlinear vortex structures with perpendicular shear flow, hot ions, and nonthermal distribution of electrons. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	6
51	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
52	Modulational instability and ion-acoustic envelopes in dense plasmas with trapped/untrapped electrons. <i>Physics of Plasmas</i> , 2019, 26, 032101.	1.9	6
53	Nonlinear cnoidal waves and solitary structures in unmagnetized plasmas with generalized $(r, q)$ distributed electrons. <i>Physica Scripta</i> , 2020, 95, 075605.	2.5	6
54	Effect of self-gravitation on the energy loss of pair of projectiles in dusty plasma. <i>Physics of Plasmas</i> , 2006, 13, 052106.	1.9	5

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55	Electron-acoustic vortices in multicomponent magnetoplasma. <i>Physics of Plasmas</i> , 2010, 17, 054505.	1.9	5
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	Numerical study of ion acoustic shock waves in dense quantum plasma. <i>Physics of Plasmas</i> , 2014, 21, 032705.	1.9	5
58	Nonlinear structure formation in ion-temperature-gradient driven drift waves in pair-ion plasma with nonthermal electron distribution. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	5
59	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
60	Shear flow driven counter rotating vortices in an inhomogeneous dusty magnetoplasma. <i>Astrophysics and Space Science</i> , 2014, 349, 829-834.	1.4	4
61	Magnetoacoustic solitons and shocks in dense astrophysical plasmas with relativistic degenerate electrons. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	4
62	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
63	ITG mode driven vortices in spatially inhomogeneous magnetoplasma with generalized ( $\langle v_r \rangle$ , $\langle v_\theta \rangle$ ) distribution. <i>Physica Scripta</i> , 2020, 95, 105606.	2.5	4
64	Fusion conditions in a finite-thickness gas-puff staged $Z$ -pinch. <i>Journal of Plasma Physics</i> , 1994, 52, 365-371.	2.1	3
65	Order and chaos in the magnetic electron drift vortex mode. <i>Journal of Plasma Physics</i> , 1998, 59, 499-503.	2.1	3
66	Electron acoustic wave driven vortices with non-Maxwellian hot electrons in magnetoplasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	3
67	Modulationally stable envelope solitons in astrophysical magnetoplasmas with degenerate relativistic electrons. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	3
68	Ion-Acoustic Vortices in Two-Electron-Temperature Magnetoplasma with Cairnâ€™s Distributed Electrons and in the Presence of Ion Shear Flow. <i>Brazilian Journal of Physics</i> , 2016, 46, 157-162.	1.4	3
69	Large-amplitude dust acoustic shocklets in non-Maxwellian dusty plasmas. <i>Physics of Plasmas</i> , 2017, 24, 103706.	1.9	3
70	Head on interaction of magnetoacoustic solitons in a spin-1/2 dense plasma with geometrical effects. <i>Physica Scripta</i> , 2019, 94, 125602.	2.5	3
71	THEORETICAL MODEL FOR A FINITE-THICKNESS GAS-PUFF $Z$ -PINCH. <i>Modern Physics Letters B</i> , 1993, 07, 1655-1660.	1.9	2
72	Radiative collapse in an impurity-seeded spinning gas-puff staged pinch. <i>Journal of Plasma Physics</i> , 1999, 61, 77-87.	2.1	2

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73	Effect of ion-temperature gradients on the formation of drift-Alfvén vortices in electron-positron-ion magnetoplasma with equilibrium flows. <i>Physics of Plasmas</i> , 2005, 12, 052306.	1.9	2
74	Chaotic behavior of nonlinearly coupled electrostatic and electromagnetic modes in electron-positron-ion magnetoplasma with equilibrium flows. <i>Physics of Plasmas</i> , 2006, 13, 062308.	1.9	2
75	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
76	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
77	Magnetic electron-drift vortex modes in an inhomogeneous quantum plasma. <i>Journal of Plasma Physics</i> , 2011, 77, 367-375.	2.1	2
78	Magnetoacoustic shocks with geometrical effects in spin-1/2 dense plasmas. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	2
79	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
80	Ion-acoustic dipolar vortex in degenerate magnetoplasma with ions/electrons thermal corrections. <i>Chaos</i> , 2020, 30, 073142.	2.5	2
81	Magnetosonic shocklets in electron-positron-ion plasmas. <i>Physica Scripta</i> , 2020, 95, 075601.	2.5	2
82	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
83	Ion-acoustic shocklets in F-region of ionosphere with non-Maxwellian electrons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126568.	2.1	2
84	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
85	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
86	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
87	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
88	Solitary waves with electron temperature inhomogeneity and shear flow in an electron ion magnetoplasma. <i>Physics of Plasmas</i> , 2019, 26, 032112.	1.9	1
89	Order and chaos in ETG-driven drift-dissipative waves with sheared flows. <i>Journal of Plasma Physics</i> , 1999, 62, 531-540.	2.1	0
90	Effect of self-gravitation and dust-charge fluctuations on the shielding and energy loss of Na <sup>+</sup> —M projectiles in a collisional dusty plasma. <i>Physics of Plasmas</i> , 2007, 14, 032110.	1.9	0

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91	Vortex formation in a non-uniform self-gravitating dusty magnetoplasma. Journal of Plasma Physics, 2007, 73, 591-598.	2.1	0
92	Study of plasma parameters in a staged pinch device using current-stepping technique. Journal of Plasma Physics, 2009, 75, 509-516.	2.1	0
93	Shear driven electromagnetic drift-waves in a nonuniform dense magnetoplasma. Physics of Plasmas, 2011, 18, 082708.	1.9	0
94	Vortex formation in nonlinearly coupled modes in a magnetized quantum plasma. Astrophysics and Space Science, 2013, 346, 279-284.	1.4	0
95	Tripolar vortices in ion-temperature-gradient mode with non-Maxwellian electrons in an inhomogeneous magnetoplasma. Canadian Journal of Physics, 2017, 95, 650-654.	1.1	0
96	Large and small amplitude compressional Alfvénic shocks in an electron depleted dusty plasma. Physics of Plasmas, 2017, 24, 063704.	1.9	0
97	Electron Bernstein waves in a collisionless magnetoplasma with Cairns distribution function. Canadian Journal of Physics, 2018, 96, 406-410.	1.1	0
98	Linear and nonlinear fluctuations of electron temperature gradient driven mode and electron acoustic mode in a two-temperature nonthermal magnetized plasma. Contributions To Plasma Physics, 2021, 61, .	1.1	0