

Hassan A Shah

List of Publications by Year in descending order

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331670

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78
times ranked

424
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of acoustic nonlinear structures in non-Maxwellian trapping plasmas. <i>Physics of Fluids</i> , 2022, 34, .	4.0	9
2	Trapping in quantum plasmas: a review. <i>Reviews of Modern Plasma Physics</i> , 2022, 6, .	4.1	5
3	Effect of suprathermal particles on EMEC instability in kappa-Maxwellian distributed space plasmas. <i>Astrophysics and Space Science</i> , 2020, 365, 1.	1.4	2
4	Nonlinear ion-acoustic waves in κ plasmas with (κ_r , κ_q) distributed electrons and positrons. <i>AIP Advances</i> , 2020, 10, .	1.3	7
5	Coupled Drift Ion Acoustic Shock waves with trapped electrons in Quantum Magnetoplasma. <i>Physica Scripta</i> , 2020, 95, 085602.	2.5	3
6	Nonlinear drift ion acoustic waves in degenerate plasmas with adiabatic trapping. <i>Physica Scripta</i> , 2020, 95, 045609.	2.5	3
7	Surface impedance and skin depth for transverse waves in temperature anisotropic unmagnetized plasma. <i>Physics of Plasmas</i> , 2019, 26, 082116.	1.9	0
8	Solar wind driven electrostatic instabilities with generalized (κ_r , κ_q) distribution function. <i>Contributions To Plasma Physics</i> , 2019, 59, e201800159.	1.1	10
9	Separate spin evolution of electrostatic energy flow in a degenerate quantum plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	5
10	Electron acoustic instability in four component space plasmas with observed generalized (κ_r , κ_q) distribution function. <i>AIP Advances</i> , 2019, 9, .	1.3	13
11	Cusp solitons in piezoelectric semiconductor plasmas. <i>Physica Scripta</i> , 2019, 94, 045601.	2.5	2
12	Electron acoustic nonlinear structures in planetary magnetospheres. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	36
13	Nonlinear ion acoustic waves in a relativistic degenerate plasma with Landau diamagnetism and electron trapping. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	11
14	Modulational and three wave decay instabilities in degenerate electron-ion dense plasmas. <i>Physics of Plasmas</i> , 2018, 25, 092903.	1.9	4
15	Electrons in regions of high phase density exhibit uncanny traits in the study of linear and nonlinear drift waves in spatially non-uniform magnetoplasmas. <i>Physics of Plasmas</i> , 2018, 25, 092306.	1.9	2
16	An alternative explanation for the density depletions observed by Freja and Viking satellites. <i>AIP Advances</i> , 2018, 8, .	1.3	17
17	Nonlinear density excitations in electron-positron-ion plasmas with trapping in a quantizing magnetic field. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	17
18	Parallel propagating modes and anomalous spatial damping in the ultra-relativistic electron plasma with arbitrary degeneracy. <i>Chinese Physics B</i> , 2017, 26, 110301.	1.4	6

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19	Nonlinear coupling of kinetic Alfvén waves with acoustic waves in a self-gravitating dusty plasma with adiabatic trapping. <i>Physics of Plasmas</i> , 2017, 24, 073704.	1.9	6
20	Obliquely propagating electromagnetic excitations in dissipative plasmas with relativistically degenerate electrons. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	3
21	Linear and nonlinear coupling of electromagnetic and electrostatic fluctuations with one dimensional trapping of electrons using product bi (r,q) distribution. <i>Physics of Plasmas</i> , 2016, 23, 062307.	1.9	13
22	Finite amplitude nonlinear drift waves in a spatially inhomogeneous degenerate plasma with Landau quantization and electron temperature corrections. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	6
23	New longitudinal mode and compression of pair ions in plasma. <i>Physics of Plasmas</i> , 2016, 23, 062125.	1.9	8
24	Soliton propagation in a magnetic-semiconducting medium. <i>Modern Physics Letters B</i> , 2016, 30, 1550256.	1.9	0
25	Dust heating by Alfvén waves using non-Maxwellian distribution function. <i>Physics of Plasmas</i> , 2015, 22, 082902.	1.9	3
26	Alfvén solitary waves in nonrelativistic, relativistic, and ultra-relativistic degenerate quantum plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	3
27	Properties of solitary ion acoustic waves in a quantized degenerate magnetoplasma with trapped electrons. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	17
28	Finite amplitude solitary structures of coupled kinetic Alfvén-acoustic waves in dense plasmas. <i>Astrophysics and Space Science</i> , 2015, 355, 225-232.	1.4	7
29	Nonlinear kinetic Alfvén waves with non-Maxwellian electron population in space plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 101-112.	2.4	24
30	Solitary structures in a spatially nonuniform degenerate plasma in the presence of quantizing magnetic field. <i>Physics of Plasmas</i> , 2015, 22, 032305.	1.9	11
31	Terrestrial lion roars and non-Maxwellian distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,059.	2.4	59
32	Anomalous skin effects in a weakly magnetized degenerate electron plasma. <i>Physics of Plasmas</i> , 2014, 21, 092108.	1.9	8
33	Drift solitary structures in inhomogeneous degenerate quantum plasmas with trapped electrons. <i>Astrophysics and Space Science</i> , 2014, 350, 615-622.	1.4	7
34	Effect of adiabatic trapping on vortices and solitons in degenerate plasma in the presence of a quantizing magnetic field. <i>Physica Scripta</i> , 2014, 89, 075602.	2.5	14
35	Adiabatic trapping in coupled kinetic Alfvén-acoustic waves. <i>Physics of Plasmas</i> , 2013, 20, 032301.	1.9	13
36	Quantum modification of dust shear Alfvén wave in plasmas. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	40

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37	Effect of trapping in a degenerate plasma in the presence of a quantizing magnetic field. Physics of Plasmas, 2012, 19, .	1.9	43
38	Trapping effects in a self-gravitating quantum dusty plasma. Physica Scripta, 2011, 84, 045505.	2.5	10
39	The parametric decay of dust ion acoustic waves in non-uniform quantum dusty magnetoplasmas. Physics of Plasmas, 2011, 18, 063705.	1.9	45
40	Effects of trapping and finite temperature in a relativistic degenerate plasma. Physics of Plasmas, 2011, 18, .	1.9	51
41	Dust Alfvén ordinary and cusp solitons and modulational instability in a self-gravitating magneto-radiative plasma. European Physical Journal D, 2010, 59, 413-419.	1.3	12
42	The parametric decay of Alfvén waves into shear Alfvén waves and dust lower hybrid waves. Physics of Plasmas, 2010, 17, 073703.	1.9	12
43	Instabilities and generation of a quasistationary magnetic field by the interaction of relativistically intense electromagnetic wave with a plasma. Physics of Plasmas, 2010, 17, 082104.	1.9	3
44	Effect of trapping in degenerate quantum plasmas. Physics of Plasmas, 2010, 17, 032312.	1.9	55
45	Nonlinear screening effect in an ultrarelativistic degenerate electron-positron gas. Physics of Plasmas, 2009, 16, 112307.	1.9	17
46	Coupled nonlinear drift and ion acoustic waves in dense dissipative electron-positron-ion magnetoplasmas. Physics of Plasmas, 2009, 16, 112302.	1.9	25
47	Stimulated Brillouin scattering of laser radiation in a piezoelectric semiconductor: Quantum effect. Journal of Applied Physics, 2009, 105, .	2.5	15
48	Charged particle induced reaction cross section data for production of the emerging medically important positron emitter ^{64}Cu : A comprehensive evaluation. Radiochimica Acta, 2009, 97, 669-686.	1.2	36
49	Nonlinear Landau damping of transverse electromagnetic waves in dusty plasmas. Physics of Plasmas, 2009, 16, .	1.9	18
50	Two types of lower-hybrid waves in dusty plasmas and cusp solitons. Physics of Plasmas, 2009, 16, 023702.	1.9	16
51	Jeans instability in a quantum dusty magnetoplasma. Physics of Plasmas, 2009, 16, .	1.9	62
52	Drift ion acoustic shock waves in an inhomogeneous two-dimensional quantum magnetoplasma. Physics of Plasmas, 2009, 16, 042108.	1.9	27
53	Dynamics of large-scale vortical structures in electron-positron-ion plasmas. Physics of Plasmas, 2009, 16, 024502.	1.9	10
54	Effect of Trapping on Vortices in Plasma. Journal of Fusion Energy, 2008, 27, 216-224.	1.2	15

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55	Jeans instability in a magneto-radiative dusty plasma. Journal of Plasma Physics, 2008, 74, 847-853.	2.1	51
56	Possible colloid crystal formation in a magnetized and inhomogeneous semiconductor plasma. Journal of Applied Physics, 2007, 102, 053301.	2.5	5
57	Dust charge fluctuation instability in a dusty plasma with equilibrium density and magnetic field inhomogeneities. Physics of Plasmas, 2007, 14, 114502.	1.9	5
58	Collective modes of ultra-relativistic magnetoactive electron plasma. Physica Scripta, 2007, 76, 649-654.	2.5	7
59	Longitudinal photons in a relativistic magneto-active plasma. Physics of Plasmas, 2007, 14, 102113.	1.9	2
60	Wake potential in a nonuniform self-gravitating dusty magnetoplasma in the presence of ion streaming. Physics of Plasmas, 2007, 14, 104505.	1.9	5
61	Kinetic Alfvén waves in a homogeneous dusty magnetoplasma with dust charge fluctuation effects. Physics of Plasmas, 2007, 14, 032105.	1.9	21
62	Study of obliquely propagating dust acoustic solitary waves in magnetized tropical mesospheric plasmas with effect of dust charge variations and rotation of the plasma. Physics of Plasmas, 2006, 13, 062903.	1.9	23
63	Parallel Proton Heating in Solar Wind Using Generalized (r, q) Distribution Function. Solar Physics, 2006, 236, 167-183.	2.5	44
64	A specific property of electromagnetic waves interacting with dust-laden plasma. Physics of Plasmas, 2006, 13, 072103.	1.9	23
65	Study of non-Maxwellian trapped electrons by using generalized (r,q) distribution function and their effects on the dynamics of ion acoustic solitary wave. Physics of Plasmas, 2006, 13, 012303.	1.9	57
66	Generation of vortex rings by nonstationary laser wake field. Physics of Plasmas, 2006, 13, 012307.	1.9	3
67	Nonlinear Zakharov-Kuznetsov equation for obliquely propagating two-dimensional ion-acoustic solitary waves in a relativistic, rotating magnetized electron-positron-ion plasma. Physics of Plasmas, 2005, 12, 072306.	1.9	154
68	Effects of positron concentration, ion temperature, and plasma β^2 value on linear and nonlinear two-dimensional magnetosonic waves in electron-positron-ion plasmas. Physics of Plasmas, 2005, 12, 012301-012301-11.	1.9	57
69	Some electrostatic modes based on non-Maxwellian distribution functions. Physics of Plasmas, 2004, 11, 2246-2255.	1.9	55
70	Parallel propagating electromagnetic modes with the generalized (r,q) distribution function. Physics of Plasmas, 2004, 11, 3819-3829.	1.9	101
71	Solar Wind Particle Distribution Function Fitted via the Generalized Kappa Distribution Function: Cluster Observations. AIP Conference Proceedings, 2003, , .	0.4	22
72	Elliptic Solitary Electron Drift Vortices in Semiconductor Piezoelectrics. Physica Scripta, 2002, 65, 181-184.	2.5	2

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73	Helicon solitons in a layered semiconductor plasma via Zakharov equations. Journal of Physics Condensed Matter, 1997, 9, 7583-7591.	1.8	4
74	Modulational stability of coupled non-linear helicon - acoustic waves in a piezoelectric semiconductor plasma. Journal of Physics Condensed Matter, 1996, 8, 1207-1216.	1.8	1
75	Nonlinear helicon-wave propagation in a layered medium. Physical Review B, 1993, 47, 1980-1984.	3.2	8
76	Modulational instability of acoustic waves in a piezoelectric semiconductor. Journal of Physics C: Solid State Physics, 1988, 21, L123-L126.	1.5	3
77	Alfvén solitons in the solar wind. Journal of Geophysical Research, 1983, 88, 6095-6101.	3.3	72