

Hassan A Shah

List of Publications by Year in descending order

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77
papers

1,591
citations

331670

21
h-index

330143

37
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78
all docs

78
docs citations

78
times ranked

424
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Zakharov-Kuznetsov equation for obliquely propagating two-dimensional ion-acoustic solitary waves in a relativistic, rotating magnetized electron-positron-ion plasma. <i>Physics of Plasmas</i> , 2005, 12, 072306.	1.9	154
2	Parallel propagating electromagnetic modes with the generalized (r,q) distribution function. <i>Physics of Plasmas</i> , 2004, 11, 3819-3829.	1.9	101
3	Alfvén solitons in the solar wind. <i>Journal of Geophysical Research</i> , 1983, 88, 6095-6101.	3.3	72
4	Jeans instability in a quantum dusty magnetoplasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	62
5	Terrestrial lion roars and non-Maxwellian distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,059.	2.4	59
6	Effects of positron concentration, ion temperature, and plasma β^2 value on linear and nonlinear two-dimensional magnetosonic waves in electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2005, 12, 012301-012301-11.	1.9	57
7	Study of non-Maxwellian trapped electrons by using generalized (r,q) distribution function and their effects on the dynamics of ion acoustic solitary wave. <i>Physics of Plasmas</i> , 2006, 13, 012303.	1.9	57
8	Some electrostatic modes based on non-Maxwellian distribution functions. <i>Physics of Plasmas</i> , 2004, 11, 2246-2255.	1.9	55
9	Effect of trapping in degenerate quantum plasmas. <i>Physics of Plasmas</i> , 2010, 17, 032312.	1.9	55
10	Jeans instability in a magneto-radiative dusty plasma. <i>Journal of Plasma Physics</i> , 2008, 74, 847-853.	2.1	51
11	Effects of trapping and finite temperature in a relativistic degenerate plasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	51
12	The parametric decay of dust ion acoustic waves in non-uniform quantum dusty magnetoplasmas. <i>Physics of Plasmas</i> , 2011, 18, 063705.	1.9	45
13	Parallel Proton Heating in Solar Wind Using Generalized (r, q) Distribution Function. <i>Solar Physics</i> , 2006, 236, 167-183.	2.5	44
14	Effect of trapping in a degenerate plasma in the presence of a quantizing magnetic field. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	43
15	Quantum modification of dust shear Alfvén wave in plasmas. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	40
16	Charged particle induced reaction cross section data for production of the emerging medically important positron emitter ^{64}Cu : A comprehensive evaluation. <i>Radiochimica Acta</i> , 2009, 97, 669-686.	1.2	36
17	Electron acoustic nonlinear structures in planetary magnetospheres. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	36
18	Drift ion acoustic shock waves in an inhomogeneous two-dimensional quantum magnetoplasma. <i>Physics of Plasmas</i> , 2009, 16, 042108.	1.9	27

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19	Coupled nonlinear drift and ion acoustic waves in dense dissipative electron-positron-ion magnetoplasmas. <i>Physics of Plasmas</i> , 2009, 16, 112302.	1.9	25
20	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
21	Study of obliquely propagating dust acoustic solitary waves in magnetized tropical mesospheric plasmas with effect of dust charge variations and rotation of the plasma. <i>Physics of Plasmas</i> , 2006, 13, 062903.	1.9	23
22	A specific property of electromagnetic waves interacting with dust-laden plasma. <i>Physics of Plasmas</i> , 2006, 13, 072103.	1.9	23
23	Solar Wind Particle Distribution Function Fitted via the Generalized Kappa Distribution Function: Cluster Observations. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	22
24	Kinetic Alfvén waves in a homogeneous dusty magnetoplasma with dust charge fluctuation effects. <i>Physics of Plasmas</i> , 2007, 14, 032105.	1.9	21
25	Nonlinear Landau damping of transverse electromagnetic waves in dusty plasmas. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	18
26	Nonlinear screening effect in an ultrarelativistic degenerate electron-positron gas. <i>Physics of Plasmas</i> , 2009, 16, 112307.	1.9	17
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	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
29	An alternative explanation for the density depletions observed by Freja and Viking satellites. <i>AIP Advances</i> , 2018, 8, .	1.3	17
30	Two types of lower-hybrid waves in dusty plasmas and cusp solitons. <i>Physics of Plasmas</i> , 2009, 16, 023702.	1.9	16
31	Effect of Trapping on Vortices in Plasma. <i>Journal of Fusion Energy</i> , 2008, 27, 216-224.	1.2	15
32	Stimulated Brillouin scattering of laser radiation in a piezoelectric semiconductor: Quantum effect. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	15
33	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
34	Adiabatic trapping in coupled kinetic Alfvén-acoustic waves. <i>Physics of Plasmas</i> , 2013, 20, 032301.	1.9	13
35	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
36	Electron acoustic instability in four component space plasmas with observed generalized ($\langle i \rangle r \langle i \rangle, \langle i \rangle q \langle i \rangle$) distribution function. <i>AIP Advances</i> , 2019, 9, .	1.3	13

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37	Dust Alfvén ordinary and cusp solitons and modulational instability in a self-gravitating magneto-radiative plasma. <i>European Physical Journal D</i> , 2010, 59, 413-419.	1.3	12
38	The parametric decay of Alfvén waves into shear Alfvén waves and dust lower hybrid waves. <i>Physics of Plasmas</i> , 2010, 17, 073703.	1.9	12
39	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
40	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
41	Dynamics of large-scale vortical structures in electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2009, 16, 024502.	1.9	10
42	Trapping effects in a self-gravitating quantum dusty plasma. <i>Physica Scripta</i> , 2011, 84, 045505.	2.5	10
43	Solar wind driven electrostatic instabilities with generalized ($\langle i \rangle r \langle /i \rangle$, $\langle i \rangle q \langle /i \rangle$) distribution function. <i>Contributions To Plasma Physics</i> , 2019, 59, e201800159.	1.1	10
44	Formation of acoustic nonlinear structures in non-Maxwellian trapping plasmas. <i>Physics of Fluids</i> , 2022, 34, .	4.0	9
45	Nonlinear helicon-wave propagation in a layered medium. <i>Physical Review B</i> , 1993, 47, 1980-1984.	3.2	8
46	Anomalous skin effects in a weakly magnetized degenerate electron plasma. <i>Physics of Plasmas</i> , 2014, 21, 092108.	1.9	8
47	New longitudinal mode and compression of pair ions in plasma. <i>Physics of Plasmas</i> , 2016, 23, 062125.	1.9	8
48	Collective modes of ultra-relativistic magnetoactive electron plasma. <i>Physica Scripta</i> , 2007, 76, 649-654.	2.5	7
49	Drift solitary structures in inhomogeneous degenerate quantum plasmas with trapped electrons. <i>Astrophysics and Space Science</i> , 2014, 350, 615-622.	1.4	7
50	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
51	Nonlinear ion-acoustic waves in e^+e^-i plasmas with ($\langle i \rangle r \langle /i \rangle$, $\langle i \rangle q \langle /i \rangle$) distributed electrons and positrons. <i>AIP Advances</i> , 2020, 10, .	1.3	7
52	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
53	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
54	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

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55	Possible colloid crystal formation in a magnetized and inhomogeneous semiconductor plasma. <i>Journal of Applied Physics</i> , 2007, 102, 053301.	2.5	5
56	Dust charge fluctuation instability in a dusty plasma with equilibrium density and magnetic field inhomogeneities. <i>Physics of Plasmas</i> , 2007, 14, 114502.	1.9	5
57	Wake potential in a nonuniform self-gravitating dusty magnetoplasma in the presence of ion streaming. <i>Physics of Plasmas</i> , 2007, 14, 104505.	1.9	5
58	Separate spin evolution of electrostatic energy flow in a degenerate quantum plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	5
59	Trapping in quantum plasmas: a review. <i>Reviews of Modern Plasma Physics</i> , 2022, 6, .	4.1	5
60	Helicon solitons in a layered semiconductor plasma via Zakharov equations. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 7583-7591.	1.8	4
61	Modulational and three wave decay instabilities in degenerate electron-ion dense plasmas. <i>Physics of Plasmas</i> , 2018, 25, 092903.	1.9	4
62	Modulational instability of acoustic waves in a piezoelectric semiconductor. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, L123-L126.	1.5	3
63	Generation of vortex rings by nonstationary laser wake field. <i>Physics of Plasmas</i> , 2006, 13, 012307.	1.9	3
64	Instabilities and generation of a quasistationary magnetic field by the interaction of relativistically intense electromagnetic wave with a plasma. <i>Physics of Plasmas</i> , 2010, 17, 082104.	1.9	3
65	Dust heating by Alfvén waves using non-Maxwellian distribution function. <i>Physics of Plasmas</i> , 2015, 22, 082902.	1.9	3
66	Alfvén solitary waves in nonrelativistic, relativistic, and ultra-relativistic degenerate quantum plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	3
67	Obliquely propagating electromagnetic excitations in dissipative plasmas with relativistically degenerate electrons. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	3
68	Coupled Drift Ion Acoustic Shock waves with trapped electrons in Quantum Magnetoplasma. <i>Physica Scripta</i> , 2020, 95, 085602.	2.5	3
69	Nonlinear drift ion acoustic waves in degenerate plasmas with adiabatic trapping. <i>Physica Scripta</i> , 2020, 95, 045609.	2.5	3
70	Elliptic Solitary Electron Drift Vortices in Semiconductor Piezoelectrics. <i>Physica Scripta</i> , 2002, 65, 181-184.	2.5	2
71	Longitudinal photons in a relativistic magneto-active plasma. <i>Physics of Plasmas</i> , 2007, 14, 102113.	1.9	2
72	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

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73	Cusp solitons in piezoelectric semiconductor plasmas. <i>Physica Scripta</i> , 2019, 94, 045601.	2.5	2
74	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
75	Modulational stability of coupled non-linear helicon - acoustic waves in a piezoelectric semiconductor plasma. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 1207-1216.	1.8	1
76	Soliton propagation in a magnetic-semiconducting medium. <i>Modern Physics Letters B</i> , 2016, 30, 1550256.	1.9	0
77	Surface impedance and skin depth for transverse waves in temperature anisotropic unmagnetized plasma. <i>Physics of Plasmas</i> , 2019, 26, 082116.	1.9	0