

# Shahid Ali

## List of Publications by Year in descending order

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101  
papers

2,244  
citations

304368

22  
h-index

253896

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106  
all docs

106  
docs citations

106  
times ranked

629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wakefield Formation by a Short Electron Beam in Quantum Nanowires. Advances in Bioinformatics and Biomedical Engineering Book Series, 2022, , 1-33.	0.2	1
2	Energization of cold ions by electromagnetic ion cyclotron waves: Magnetospheric multiscale (MMS) observations. Physics of Plasmas, 2021, 28, 072901.	0.7	5
3	Modeling and simulation of large-amplitude ion-acoustic shocklets in degenerate quantized plasmas. Chaos, Solitons and Fractals, 2021, 152, 111481.	2.5	0
4	Effect of quantization and positron concentration on shielding potentials in electron-positron plasma. Contributions To Plasma Physics, 2021, 61, e202000060.	0.5	1
5	A Comparative Study of Spacecraft Charging Onset at Geosynchronous Altitudes: A Nonextensive Particle Approach. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028107.	0.8	4
6	Test charge response and correlations in multi-ion plasmas. Physics of Plasmas, 2019, 26, .	0.7	1
7	Streaming instability of dust-acoustic mode with helical wavefronts. Chinese Journal of Physics, 2019, 62, 144-150.	2.0	3
8	Effects of electron trapping on nonlinear electron-acoustic waves excited by an electron beam via particle-in-cell simulations. Plasma Science and Technology, 2019, 21, 055301.	0.7	0
9	Potentials of a moving test charge during the solar wind interaction with dusty magnetosphere of Jupiter. Physica Scripta, 2019, 94, 075601.	1.2	17
10	Dust oscillons with finite OAM and dust self-gravity effects. Physica Scripta, 2019, 94, 055602.	1.2	5
11	Photon Bubbles in a Self-gravitating Dust Gas: Collective Dust Interactions. Astrophysical Journal, 2019, 872, 142.	1.6	4
12	Modulational instability and ion-acoustic envelopes in dense plasmas with trapped/untrapped electrons. Physics of Plasmas, 2019, 26, 032101.	0.7	6
13	Dust-acoustic waves with finite OAM in a self-gravitating dusty plasma with superthermal energetic tails of electrons and ions. Physica Scripta, 2019, 94, 015601.	1.2	6
14	Growth rate instabilities with finite OAM in non-Maxwellian plasmas: Saturn's magnetosphere. Planetary and Space Science, 2018, 159, 11-16.	0.9	8
15	Twisted waves and instabilities in a permeating dusty plasma. Journal of Plasma Physics, 2018, 84, .	0.7	6
16	Modulational and three wave decay instabilities in degenerate electron-ion dense plasmas. Physics of Plasmas, 2018, 25, 092903.	0.7	4
17	Raman and Brillouin scattering instabilities of transverse electromagnetic waves in degenerate electron-ion plasmas. Physics of Plasmas, 2018, 25, .	0.7	7
18	Magnetoacoustic shocks with geometrical effects in spin-1/2 dense plasmas. Physics of Plasmas, 2018, 25, .	0.7	2

#	ARTICLE	IF	CITATIONS
19	Stable plasmon excitations in quantum nanowires. <i>Physics of Plasmas</i> , 2018, 25, 082115.	0.7	6
20	Kinetic study of twisted electron plasma waves in q-nonextensive plasmas. <i>AIP Advances</i> , 2018, 8, 045013.	0.6	2
21	Dust surface potential in a generalized ( $r$ , $q$ )-distributed multi-ion dusty plasma. <i>Contributions To Plasma Physics</i> , 2018, 58, 976-984.	0.5	16
22	Kinetic instability of twisted excitations in permeating plasma environments. <i>Contributions To Plasma Physics</i> , 2018, 58, 838-845.	0.5	3
23	Formation of solitary waves and oscillatory shocklets in a two-temperature electron $r$ -distributed plasma. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	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.	0.7	15
25	On the super freak waves in multicomponent plasmas having two-negative ions: $Xe^{+}$ and $Ar^{+}$ plasmas. <i>Indian Journal of Physics</i> , 2017, 91, 939-946.	0.9	14
26	Parametric instabilities in a quantum magnetoplasma with electron exchange-correlations. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	8
27	Slow test charge response in a dusty plasma with Kappa distributed electrons and ions. <i>Physica Scripta</i> , 2017, 92, 084003.	1.2	4
28	Microwave transmission efficiency and simulations of electron plasma in ELTRAP device. <i>Physics of Plasmas</i> , 2017, 24, 112507.	0.7	1
29	Solar wind interaction with dusty plasmas produces instabilities and solitary structures. <i>Astrophysics and Space Science</i> , 2017, 362, 1.	0.5	4
30	Large-amplitude dust acoustic shocklets in non-Maxwellian dusty plasmas. <i>Physics of Plasmas</i> , 2017, 24, 103706.	0.7	3
31	Twisted electrostatic waves in a self-gravitating dusty plasma. <i>Contributions To Plasma Physics</i> , 2017, 57, 404-413.	0.5	17
32	Ion-acoustic solitons and vortices in the e-p-i plasma with field-aligned inhomogeneous flow. <i>Physics of Plasmas</i> , 2016, 23, 092117.	0.7	1
33	Twisted electron-acoustic waves in plasmas. <i>Physics of Plasmas</i> , 2016, 23, 082122.	0.7	17
34	Twisted Landau damping rates in multi-component dusty plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	18
35	Electrostatic twisted modes in multi-component dusty plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	5
36	Magnetoacoustic solitons and shocks in dense astrophysical plasmas with relativistic degenerate electrons. <i>Journal of Plasma Physics</i> , 2016, 82, .	0.7	4

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37	Parametric Study of Nonplanar Dust Acoustic Solitons in Two-Dimensional Superthermal Dusty Plasmas. Contributions To Plasma Physics, 2016, 56, 927-937.	0.5	8
38	Potential distribution around a test charge in a positive dust-electron plasma. Frontiers of Physics, 2016, 11, 1.	2.4	4
39	Transverse instability of ion acoustic solitons in a magnetized plasma including -nonextensive electrons and positrons. Journal of Plasma Physics, 2015, 81, .	0.7	9
40	Modulationally stable envelope solitons in astrophysical magnetoplasmas with degenerate relativistic electrons. Journal of Plasma Physics, 2015, 81, .	0.7	3
41	Modified ion-acoustic solitary waves in plasmas with field-aligned shear flows. Physics of Plasmas, 2015, 22, .	0.7	13
42	Magnetohydrodynamic waves with relativistic electrons and positrons in degenerate spin-1/2 astrophysical plasmas. Physics of Plasmas, 2015, 22, .	0.7	15
43	Dust-ion-acoustic envelopes and modulational instability with relativistic degenerate electrons. Physics of Plasmas, 2015, 22, .	0.7	7
44	Slowly moving test charge in two-electron component non-Maxwellian plasma. Physics of Plasmas, 2015, 22, .	0.7	9
45	Vasyliunasâ€œCairns distribution function for space plasma species. Physics of Plasmas, 2015, 22, .	0.7	40
46	Dust kinetic Alfvén waves and streaming instability in a non-Maxwellian magnetoplasma. Physics of Plasmas, 2014, 21, .	0.7	8
47	Dust acoustic solitary and shock excitations in a Thomas-Fermi magnetoplasma. Physics of Plasmas, 2014, 21, 072305.	0.7	10
48	KP Burgers shocks in a warm electronegative plasma with q-nonextensive distributed electrons. Astrophysics and Space Science, 2014, 351, 181-190.	0.5	8
49	Solitary and rogue waves in Fermi-Dirac plasmas: relativistic degeneracy effects. Astrophysics and Space Science, 2014, 351, 165-172.	0.5	29
50	Electromagnetic wave instability in a relativistic electron-positron-ion plasma. Astrophysics and Space Science, 2014, 353, 485-491.	0.5	9
51	Numerical study of ion acoustic shock waves in dense quantum plasma. Physics of Plasmas, 2014, 21, 032705.	0.7	5
52	Solitons and shocks in dense astrophysical magnetoplasmas with relativistic degenerate electrons and positrons. Physics of Plasmas, 2014, 21, .	0.7	13
53	Dust-acoustic solitary and rogue waves in a Thomas-Fermi degenerate dusty plasma. Astrophysics and Space Science, 2014, 353, 515-523.	0.5	15
54	Finite orbital angular momentum states and Laguerreâ€œGaussian potential in two-temperature electron plasmas. Astrophysics and Space Science, 2014, 353, 3-8.	0.5	7

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55	Nonplanar shocks in a warm electronegative plasma with electron nonextensivity effects. <i>Astrophysics and Space Science</i> , 2014, 353, 151-162.	0.5	7
56	Shielding effect and wakefield pattern of a moving test charge in a non-Maxwellian dusty plasma. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	9
57	Two-dimensional cylindrical ion-acoustic solitary and rogue waves in ultrarelativistic plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	14
58	Nonplanar Electrostatic Solitary Waves in a Relativistic Degenerate Dense Plasma. <i>Communications in Theoretical Physics</i> , 2013, 59, 479-483.	1.1	20
59	Planar and nonplanar ion acoustic shock waves in relativistic degenerate astrophysical electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2013, 20, 042305.	0.7	39
60	Nonlinear ion acoustic excitations in relativistic degenerate, astrophysical electron-positron-ion plasmas. <i>Journal of Plasma Physics</i> , 2013, 79, 817-823.	0.7	34
61	Plasmons carrying orbital angular momentum in quantum plasmas. <i>Journal of Plasma Physics</i> , 2013, 79, 973-979.	0.7	19
62	Dust grain surface potential in a non-Maxwellian dusty plasma with negative ions. <i>Journal of Plasma Physics</i> , 2013, 79, 1117-1121.	0.7	15
63	Arbitrary amplitude ion-acoustic solitary waves in superthermal electron-positron-ion magnetoplasma. <i>Astrophysics and Space Science</i> , 2012, 342, 425-432.	0.5	33
64	SELF-HEATING OF CORONA BY ELECTROSTATIC FIELDS DRIVEN BY SHEARED FLOWS. <i>Astrophysical Journal</i> , 2012, 748, 90.	1.6	11
65	Nonlinear electrostatic excitations of charged dust in degenerate ultra-dense quantum dusty plasmas. <i>Physics of Plasmas</i> , 2012, 19, 062107.	0.7	24
66	Nonlocal plasmon excitation in metallic nanostructures. <i>Physical Review B</i> , 2011, 83, .	1.1	17
67	Phonons with orbital angular momentum. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	33
68	Inverse Faraday effect with plasmon beams. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 045007.	0.9	7
69	Effective charge of photons and plasmons. <i>Journal of Plasma Physics</i> , 2010, 76, 287-292.	0.7	1
70	Inverse Faraday Effect with Linearly Polarized Laser Pulses. <i>Physical Review Letters</i> , 2010, 105, 035001.	2.9	94
71	Drift wave instability analysis in pair-ion-electron plasmas using kinetic approach. <i>Physics of Plasmas</i> , 2010, 17, 092101.	0.7	6
72	Dust charging effects on test charge potential in a multi-ion dusty plasma. <i>Physics of Plasmas</i> , 2009, 16, 113706.	0.7	5

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73	Quantum ion-acoustic double layers in unmagnetized dense electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	24
74	Test charge potential in the presence of electron acoustic waves in multispecies dusty plasma. <i>Physics of Plasmas</i> , 2009, 16, 054502.	0.7	5
75	Plasmons with orbital angular momentum. <i>Physics of Plasmas</i> , 2009, 16, 112103.	0.7	64
76	Propagation of the three-dimensional dust acoustic solitons in magnetized quantum plasmas with dust polarity effect. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	18
77	Rayleigh-Taylor/gravitational instability in dense magnetoplasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2940-2943.	0.9	20
78	Three-dimensional electrostatic waves in a nonuniform quantum electron-positron magnetoplasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3471-3475.	0.9	6
79	Exact electrostatic solitons in a magnetoplasma with degenerate electrons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4923-4926.	0.9	15
80	Potential distributions in dense plasmas composed of degenerate electrons and positive nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4827-4830.	0.9	7
81	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.	0.9	14
82	Nonlinear structures: Explosive, soliton, and shock in a quantum electron-positron-ion magnetoplasma. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	88
83	Parametric study of nonlinear electrostatic waves in two-dimensional quantum dusty plasmas. <i>New Journal of Physics</i> , 2008, 10, 023007.	1.2	23
84	Instability of drift-like waves and cross-field charged particle transport in a nonuniform collisional quantum magnetoplasma. <i>Europhysics Letters</i> , 2007, 78, 45001.	0.7	21
85	Solitary, explosive, and periodic solutions of the quantum Zakharov-Kuznetsov equation and its transverse instability. <i>Physics of Plasmas</i> , 2007, 14, 082308.	0.7	113
86	Quantum dust-acoustic double layers. <i>Physics of Plasmas</i> , 2007, 14, 042107.	0.7	70
87	Linear and nonlinear ion-acoustic waves in an unmagnetized electron-positron-ion quantum plasma. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	226
88	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.	0.9	53
89	Streaming instability in quantum dusty plasmas. <i>European Physical Journal D</i> , 2007, 41, 319-324.	0.6	85
90	Dust acoustic solitary waves in a quantum plasma. <i>Physics of Plasmas</i> , 2006, 13, 022313.	0.7	124

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91	Potential distributions around a moving test charge in quantum plasmas. <i>Physics of Plasmas</i> , 2006, 13, 102112.	0.7	59
92	Dispersion properties of compressional electromagnetic waves in quantum dusty magnetoplasmas. <i>Physics of Plasmas</i> , 2006, 13, 052113.	0.7	23
93	Nonlinear wave interactions in quantum magnetoplasmas. <i>Physics of Plasmas</i> , 2006, 13, 112111.	0.7	88
94	Jeans instability in a plasma with positive and negative charged and neutral dust components. <i>Physica Scripta</i> , 2006, 73, 359-363.	1.2	14
95	Dispersive electromagnetic drift modes in nonuniform quantum magnetoplasmas. <i>Physics of Plasmas</i> , 2006, 13, 082101.	0.7	43
96	Correlation effects due to an axial propagation of projectiles in a dusty plasma. <i>Physics of Plasmas</i> , 2005, 12, 033502.	0.7	7
97	Dust acoustic waves in quantum plasmas. <i>Physics of Plasmas</i> , 2005, 12, 114502.	0.7	139
98	Energy loss for the assemblies of charged projectiles in a dusty plasma. <i>Physics of Plasmas</i> , 2005, 12, 072104.	0.7	12
99	Attractive wake field formation due to an array of dipolar projectiles in a multi-component dusty plasma. <i>Physics of Plasmas</i> , 2003, 10, 941-947.	0.7	13
100	Effects of dust-charge fluctuations on the potential of an array of projectiles in a partially ionized dusty plasma. <i>Physics of Plasmas</i> , 2003, 10, 4207-4216.	0.7	19
101	Debye shielding distortion of dust grains in dusty plasmas. <i>Physics of Plasmas</i> , 2002, 9, 3629-3632.	0.7	17