Massoud

List of Publications by Year
in descending order

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99 papers	1,371 citations	394421 19 h-index	454955 30 g-index
104 all docs	104 docs citations	104 times ranked	383 citing authors

#	Article	IF	Citations
1	Hydrodynamic limit of Wigner-Poisson kinetic theory: Revisited. Physics of Plasmas, 2015, 22, .	1.9	87
2	Propagation and head-on collisions of ion-acoustic solitons in a Thomasâ€“Fermi magnetoplasma: Relativistic degeneracy effects. Physics of Plasmas, 2010, 17, 072101.	1.9	60
3	Propagation of arbitrary-amplitude ion waves in relativistically degenerate electron-ion plasmas. Astrophysics and Space Science, 2011, 332, 187-192.	1.4	46
4	Finite temperature static charge screening in quantum plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2518-2524.	2.1	46
5	Effects of ion-temperature on propagation of the large-amplitude ion-acoustic solitons in degenerate electron-positron-ion plasmas. Physics of Plasmas, 2010, 17, .	1.9	45
6	Shuklaâ€“Eliasson attractive force: Revisited. Journal of Plasma Physics, 2013, 79, 189-196.	2.1	40
7	Hydrodynamic theory for ion structure and stopping power in quantum plasmas. Physical Review E, 2013, 87, 043106.	2.1	36
8	Crystallization and collapse in relativistically degenerate matter. Physics of Plasmas, 2013, 20, 042706.	1.9	33
9	Dressed electrostatic solitary waves in quantum dusty pair plasmas. Physics of Plasmas, 2010, 17, .	1.9	32
10	Nonlinear ion waves in Fermiâ€“Dirac pair plasmas. Physics of Plasmas, 2011, 18, 012701.	1.9	31
11	Theory for large-amplitude electrostatic ion shocks in quantum plasmas. Physical Review E, 2012, 86, 066401.	2.1	31
12	Effects of positron density and temperature on ion-acoustic solitary waves in a magnetized electron-positron-ion plasma: Oblique propagation. Physics of Plasmas, 2009, 16, .	1.9	30
13	Distinctive features of ion-acoustic solitons in electron-positron-ion superdense magnetoplasmas with degenerate electrons and positrons. Physics of Plasmas, 2010, 17, .	1.9	29
14	Comment on â€œAttractive forces between ions in quantum plasmas: Failure of linearized quantum hydrodynamicsâ€• Physical Review E, 2013, 87, .	2.1	27
15	Coupled Langmuir oscillations in 2-dimensional quantum plasmas. Physics of Plasmas, 2014, 21, 032110.	1.9	27
16	Maximal Cherenkov Î³-radiation on Fermi-surface of compact stars. Physics of Plasmas, 2014, 21, .	1.9	24
17	Hydrodynamic theory of partially degenerate electronâ€“hole fluids in semiconductors. Physica Scripta, 2016, 91, 105601.	2.5	24
18	Quantum Bohm correction to polarization spectrum of graphene. Physics of Plasmas, 2013, 20, .	1.9	21

#	Article	IF	Citations
19	Quantized plasmon excitations of electron gas in potential well. Physics of Plasmas, 2019, 26, 012104.	1.9	20
20	Dressed electrostatic solitary excitations in three component pair-plasmas: Application in isothermal pair-plasma with stationary ions. Physics of Plasmas, 2009, 16, .	1.9	19
21	White dwarfs as the maximal soft x-ray scatterers. Physics of Plasmas, 2013, 20, .	1.9	19
22	Discussion on â€˜Novel attractive force between ions in quantum plasmasâ€”failure of simulations based on a density functional approachâ€™. Physica Scripta, 2013, 87, 018202.	2.5	19
23	Nonextensivity effect on radio-wave transmission in plasma sheath. Physics of Plasmas, 2016, 23, .	1.9	19
24	Generalized Sagdeev potential theory for shock waves modeling. Physics of Plasmas, 2017, 24, 052302.	1.9	18
25	Remarkable paramagnetic features of Fermi-Dirac-Pauli plasmas. Physics of Plasmas, 2011, 18, 072702.	1.9	17
26	Field-induced degeneracy regimes in quantum plasmas. Physics of Plasmas, 2012, 19, 032703.	1.9	17
27	Nonlinear excitations in strongly coupled Fermi-Dirac plasmas. Physics of Plasmas, 2012, 19, .	1.9	16
28	Energy spectrum of oscillations in generalized Sagdeev potential. Physics of Plasmas, 2017, 24, 072107.	1.9	16
29	Relativistic Degeneracy Effect on Propagation of Arbitrary Amplitude Ion-Acoustic Solitons in Thomas-Fermi Plasmas. Plasma and Fusion Research, 2010, 5, 045-045.	0.7	15
30	Propagation and oblique collision of electrostatic solitary waves in quantum pair-plasmas. Physics of Plasmas, 2010, 17, 082317.	1.9	15
31	Electron-exchange effects on the charge capture process in degenerate quantum plasmas. Physics of Plasmas, 2014, 21, 032108.	1.9	15
32	Electrostatic rogue-waves in relativistically degenerate plasmas. Physics of Plasmas, 2014, 21, 102111.	1.9	14
33	Effects of a monoenergetic electron beam on the sheath formation in a plasma with a q-nonextensive electron velocity distribution. Physics of Plasmas, 2017, 24, .	1.9	14
34	Propagation of Arbitrary-Amplitude Nonlinear Quantum Ion-Acoustic Waves in Electronâ€“Ion Plasmas: Dimensionality Effects. IEEE Transactions on Plasma Science, 2010, 38, 3336-3341.	1.3	13
35	Propagation of ion-acoustic solitary waves in a relativistic electron-positron-ion plasma. Canadian Journal of Physics, 2011, 89, 299-309.	1.1	13
36	The pseudoforce approach to fully nonlinear plasma excitations. Physics of Plasmas, 2017, 24, .	1.9	13

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37	Nonlinear modulation of ion-acoustic waves in two-electron-temperature plasmas. Journal of Plasma Physics, 2010, 76, 169-181.	2.1	12
38	Double-wells and double-layers in dusty Fermiâ€“Dirac plasmas: Comparison with the semiclassical Thomasâ€“Fermi counterpart. Physics of Plasmas, 2010, 17, 123709.	1.9	12
39	Comment on â€œThe effects of Bohm potential on ion-acoustic solitary waves interaction in a nonplanar quantum plasmaâ€•[Phys. Plasmas 17, 082307 (2010)]. Physics of Plasmas, 2010, 17, .	1.9	12
40	Generalized model screening potentials for Fermi-Dirac plasmas. Physics of Plasmas, 2016, 23, 042706.	1.9	12
41	Generalized sheath criterion for arbitrary degenerate plasmas. Physics of Plasmas, 2017, 24, .	1.9	12
42	Quantum interference of three dimensional plasmon excitations. Physics of Plasmas, 2019, 26, 062105.	1.9	12
43	Heat capacity and electrical conductivity of plasmon excitations. Physics of Plasmas, 2019, 26, 072106.	1.9	12
44	Ground state energy of hydrogen-like ions in quantum plasmas. Physics of Plasmas, 2020, 27, .	1.9	12
45	Interaction of electrostaticâ€“acoustic solitary waves in a three-component pair-plasma: Oblique collision. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1721-1727.	2.1	11
46	Dynamics of nonlinear ion-waves in Fermi-Dirac electron-positron-ion magnetoplasmas. Astrophysics and Space Science, 2011, 333, 491-500.	1.4	11
47	Universal aspects of localized excitations in graphene. Journal of Applied Physics, 2013, 114, .	2.5	11
48	Generalized Sagdeev approach to nonlinear plasma excitations. Physics of Plasmas, 2017, 24, .	1.9	11
49	Effect of quantum charge screening on dual plasmon scattering. Physics of Plasmas, 2019, 26, 112102.	1.9	11
50	Propagation and oblique collision of electron-acoustic solitons in two-electron-populated quantum plasmas. Pramana - Journal of Physics, 2011, 77, 369-382.	1.8	10
51	Characteristics of Quantum Magnetosonic-Wave Dispersion. IEEE Transactions on Plasma Science, 2012, 40, 1330-1337.	1.3	10
52	Energy exchange in strongly coupled plasmas with electron drift. Physics of Plasmas, 2015, 22, .	1.9	10
53	A coupled pseudoforce model for quantum plasmon excitations. Physics of Plasmas, 2018, 25, 102105.	1.9	10
54	Higher-order nonlinear electron-acoustic solitary excitations in partially degenerate quantum electron-ion plasmas. Indian Journal of Physics, 2012, 86, 413-422.	1.8	9

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55	Universal characteristics of ion-acoustic wave dynamics in magnetized plasmas with emphasis on Tsallis distribution. Astrophysics and Space Science, 2012, 337, 613-622.	1.4	9
56	Pseudo-resonance and energy band gaps in plasmonic crystals. Physics of Plasmas, 2019, 26, .	1.9	9
57	Self-similar and diffusive expansion of nonextensive plasmas. Physics of Plasmas, 2015, 22, .	1.9	8
58	Optical properties of nonextensive inhomogeneous plasma sheath. Physics of Plasmas, 2016, 23, 073511.	1.9	8
59	Energy band structure of multistream quantum electron system. Scientific Reports, 2021, 11, 21099.	3.3	8
60	Generalized matching criterion for electrostatic ion solitary propagations in quasineutral magnetized plasmas. Physics of Plasmas, 2011, 18, .	1.9	7
61	Physical interpretation of Jeans instability in quantum plasmas. Physics of Plasmas, 2014, 21, 082117.	1.9	7
62	Nonlinear response and bistability of driven ion acoustic waves. Physics of Plasmas, 2017, 24, .	1.9	7
63	Double layers and double wells in arbitrary degenerate plasmas. Physics of Plasmas, 2016, 23, .	1.9	6
64	Mode Coupling and Two-Stream Instabilities in Semiconductors. IEEE Transactions on Plasma Science, 2017, 45, 174-184.	1.3	6
65	Wavefunction of plasmon excitations with space charge effects. Physics of Plasmas, 2019, 26, .	1.9	6
66	Comment on â€œInteraction of two solitary waves in quantum electron-positron-ion plasmaâ€•[Phys. Plasmas 18, 052301 (2011)]. Physics of Plasmas, 2011, 18, 084701.	1.9	5
67	Global limits on kinetic AlfvÃ©non speed in quasineutral plasmas. Physics of Plasmas, 2011, 18, .	1.9	5
68	Comment on the article â€œSolitary waves and double layers in an ultra-relativistic degenerate dusty electron-positron-ion plasmaâ€•[Phys. Plasmas 19, 033705 (2012)]. Physics of Plasmas, 2012, 19, 064703.	1.9	5
69	Comment on â€œOn quantum plasma: A plea for a common senseâ€•by Vranjes J. et al.. Europhysics Letters, 2012, 99, 65001.	2.0	5
70	Large-amplitude solitons in gravitationally balanced quantum plasmas. Physics of Plasmas, 2014, 21, .	1.9	5
71	Fano resonance of collective excitations in 1D plasmonic crystal. Physics of Plasmas, 2019, 26, 062110.	1.9	5
72	Spin-Induced Localized Density Excitations in Quantum Plasmas. IEEE Transactions on Plasma Science, 2011, 39, 3180-3186.	1.3	4

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73	Quantum collapse in ground-state Fermi-Dirac-Landau plasmas. Physics of Plasmas, 2011, 18, 082706.	1.9	4
74	Orbital ferromagnetism and quantum collapse in stellar plasmas. Physics of Plasmas, 2011, 18, 112708.	1.9	4
75	Low-dimensional relativistic degeneracy in quantum plasmas. Journal of Plasma Physics, 2013, 79, 1081-1087.	2.1	4
76	Quantum stream instability in coupled two-dimensional plasmas. Physica Scripta, 2014, 89, 085604.	2.5	4
77	Distinct optical properties of relativistically degenerate matter. Physics of Plasmas, 2014, 21, .	1.9	4
78	Comment on â€œSurface waves on quantum plasma half-space with electron exchange-correlation effectsâ€•[Phys. Plasmas 22, 122112 (2015)]. Physics of Plasmas, 2016, 23, .	1.9	4
79	Two stream ion acoustic wave instability in warm dense plasmas. Astrophysics and Space Science, 2019, 364, 1.	1.4	4
80	Quantum Faraday excitations in degenerate electron-ion plasma. Physica Scripta, 2020, 95, 045604.	2.5	4
81	Exact nonlinear excitations in double-degenerate plasmas. Physics of Plasmas, 2012, 19, 062106.	1.9	3
82	Generalized charge-screening in relativistic Thomasâ€“Fermi model. Physics of Plasmas, 2014, 21, 102702.	1.9	3
83	Electrostatic two-stream instability in Fermi-Dirac plasmas. Astrophysics and Space Science, 2016, 361, 1.	1.4	3
84	The Sagdeev pseudopotential approach to autoresonance effect. Physics of Plasmas, 2017, 24, 082305.	1.9	3
85	Harmonic generation in the generalized Sagdeev pseudopotential. Physics of Plasmas, 2017, 24, 092302.	1.9	3
86	Characteristics of plasmon transmittivity over potential barriers. Physics of Plasmas, 2019, 26, 052104.	1.9	3
87	Effect of dynamic ions on band structure of plasmon excitations. Physics of Plasmas, 2020, 27, .	1.9	3
88	Resonant electronâ€“plasmon interactions in drifting electron gas. Physics of Plasmas, 2021, 28, .	1.9	3
89	Orbital ferromagnetism and the Chandrasekhar mass-limit. Physics of Plasmas, 2012, 19, 052901.	1.9	2
90	Heavy-fermion instability in double-degenerate plasmas. Physics of Plasmas, 2012, 19, .	1.9	2

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91	Density effects on bremsstrahlung radiation in quantum plasmas. Physics of Plasmas, 2014, 21, 013303.	1.9	2
92	Envelope excitations in nonextensive plasmas with warm-ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3617-3625.	2.1	2
93	Traveling wave solution of driven nonlinear SchrÃ¶dinger equation. Physics of Plasmas, 2017, 24, 092117.	1.9	2
94	Traveling wave solutions of the nonlinear SchrÃ¶dinger equation. Physics of Plasmas, 2017, 24, 102313.	1.9	2
95	Linear and nonlinear excitations in warm dense matter. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2277-2284.	2.1	2
96	Minimal dielectric polarization stopping power in white dwarfs. Astrophysics and Space Science, 2015, 355, 309-316.	1.4	1
97	Ion energy spectrum in expansion of plasmas with nonextensive electrons. Results in Physics, 2017, 7, 4213-4221.	4.1	1
98	Quantum drift instability and self-interference of electron beam. Physics of Plasmas, 2021, 28, 082109.	1.9	1
99	Optical characteristics of finite temperature quantum electron gas. Canadian Journal of Physics, 2017, 95, 1225-1233.	1.1	0