

# 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	Resonant electron-plasmon interactions in drifting electron gas. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
2	Quantum drift instability and self-interference of electron beam. <i>Physics of Plasmas</i> , 2021, 28, 082109.	1.9	1
3	Energy band structure of multistream quantum electron system. <i>Scientific Reports</i> , 2021, 11, 21099.	3.3	8
4	Quantum Faraday excitations in degenerate electron-ion plasma. <i>Physica Scripta</i> , 2020, 95, 045604.	2.5	4
5	Effect of dynamic ions on band structure of plasmon excitations. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	3
6	Ground state energy of hydrogen-like ions in quantum plasmas. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12
7	Quantum interference of three dimensional plasmon excitations. <i>Physics of Plasmas</i> , 2019, 26, 062105.	1.9	12
8	Heat capacity and electrical conductivity of plasmon excitations. <i>Physics of Plasmas</i> , 2019, 26, 072106.	1.9	12
9	Fano resonance of collective excitations in 1D plasmonic crystal. <i>Physics of Plasmas</i> , 2019, 26, 062110.	1.9	5
10	Effect of quantum charge screening on dual plasmon scattering. <i>Physics of Plasmas</i> , 2019, 26, 112102.	1.9	11
11	Two stream ion acoustic wave instability in warm dense plasmas. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	4
12	Characteristics of plasmon transmittivity over potential barriers. <i>Physics of Plasmas</i> , 2019, 26, 052104.	1.9	3
13	Linear and nonlinear excitations in warm dense matter. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2277-2284.	2.1	2
14	Pseudo-resonance and energy band gaps in plasmonic crystals. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	9
15	Wavefunction of plasmon excitations with space charge effects. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	6
16	Quantized plasmon excitations of electron gas in potential well. <i>Physics of Plasmas</i> , 2019, 26, 012104.	1.9	20
17	A coupled pseudoforce model for quantum plasmon excitations. <i>Physics of Plasmas</i> , 2018, 25, 102105.	1.9	10
18	Generalized sheath criterion for arbitrary degenerate plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12

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19	Mode Coupling and Two-Stream Instabilities in Semiconductors. IEEE Transactions on Plasma Science, 2017, 45, 174-184.	1.3	6
20	Generalized Sagdeev potential theory for shock waves modeling. Physics of Plasmas, 2017, 24, 052302.	1.9	18
21	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
22	Optical characteristics of finite temperature quantum electron gas. Canadian Journal of Physics, 2017, 95, 1225-1233.	1.1	0
23	Generalized Sagdeev approach to nonlinear plasma excitations. Physics of Plasmas, 2017, 24, .	1.9	11
24	Ion energy spectrum in expansion of plasmas with nonextensive electrons. Results in Physics, 2017, 7, 4213-4221.	4.1	1
25	Traveling wave solution of driven nonlinear Schrödinger equation. Physics of Plasmas, 2017, 24, 092117.	1.9	2
26	Traveling wave solutions of the nonlinear Schrödinger equation. Physics of Plasmas, 2017, 24, 102313.	1.9	2
27	Nonlinear response and bistability of driven ion acoustic waves. Physics of Plasmas, 2017, 24, .	1.9	7
28	The Sagdeev pseudopotential approach to autoresonance effect. Physics of Plasmas, 2017, 24, 082305.	1.9	3
29	The pseudoforce approach to fully nonlinear plasma excitations. Physics of Plasmas, 2017, 24, .	1.9	13
30	Harmonic generation in the generalized Sagdeev pseudopotential. Physics of Plasmas, 2017, 24, 092302.	1.9	3
31	Energy spectrum of oscillations in generalized Sagdeev potential. Physics of Plasmas, 2017, 24, 072107.	1.9	16
32	Nonextensivity effect on radio-wave transmission in plasma sheath. Physics of Plasmas, 2016, 23, .	1.9	19
33	Optical properties of nonextensive inhomogeneous plasma sheath. Physics of Plasmas, 2016, 23, 073511.	1.9	8
34	Double layers and double wells in arbitrary degenerate plasmas. Physics of Plasmas, 2016, 23, .	1.9	6
35	Hydrodynamic theory of partially degenerate electron-hole fluids in semiconductors. Physica Scripta, 2016, 91, 105601.	2.5	24
36	Electrostatic two-stream instability in Fermi-Dirac plasmas. Astrophysics and Space Science, 2016, 361, 1.	1.4	3

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37	Generalized model screening potentials for Fermi-Dirac plasmas. <i>Physics of Plasmas</i> , 2016, 23, 042706.	1.9	12
38	Comment on "Surface waves on quantum plasma half-space with electron exchange-correlation effects" [ <i>Phys. Plasmas</i> 22, 122112 (2015)]. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	4
39	Finite temperature static charge screening in quantum plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2518-2524.	2.1	46
40	Energy exchange in strongly coupled plasmas with electron drift. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	10
41	Self-similar and diffusive expansion of nonextensive plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	8
42	Hydrodynamic limit of Wigner-Poisson kinetic theory: Revisited. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	87
43	Minimal dielectric polarization stopping power in white dwarfs. <i>Astrophysics and Space Science</i> , 2015, 355, 309-316.	1.4	1
44	Maximal Cherenkov $\hat{\Gamma}^3$ -radiation on Fermi-surface of compact stars. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	24
45	Generalized charge-screening in relativistic Thomas-Fermi model. <i>Physics of Plasmas</i> , 2014, 21, 102702.	1.9	3
46	Coupled Langmuir oscillations in 2-dimensional quantum plasmas. <i>Physics of Plasmas</i> , 2014, 21, 032110.	1.9	27
47	Physical interpretation of Jeans instability in quantum plasmas. <i>Physics of Plasmas</i> , 2014, 21, 082117.	1.9	7
48	Electrostatic rogue-waves in relativistically degenerate plasmas. <i>Physics of Plasmas</i> , 2014, 21, 102111.	1.9	14
49	Density effects on bremsstrahlung radiation in quantum plasmas. <i>Physics of Plasmas</i> , 2014, 21, 013303.	1.9	2
50	Envelope excitations in nonextensive plasmas with warm-ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 3617-3625.	2.1	2
51	Large-amplitude solitons in gravitationally balanced quantum plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	5
52	Quantum stream instability in coupled two-dimensional plasmas. <i>Physica Scripta</i> , 2014, 89, 085604.	2.5	4
53	Distinct optical properties of relativistically degenerate matter. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	4
54	Electron-exchange effects on the charge capture process in degenerate quantum plasmas. <i>Physics of Plasmas</i> , 2014, 21, 032108.	1.9	15

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55	Universal aspects of localized excitations in graphene. Journal of Applied Physics, 2013, 114, .	2.5	11
56	White dwarfs as the maximal soft x-ray scatterers. Physics of Plasmas, 2013, 20, .	1.9	19
57	Quantum Bohm correction to polarization spectrum of graphene. Physics of Plasmas, 2013, 20, .	1.9	21
58	Low-dimensional relativistic degeneracy in quantum plasmas. Journal of Plasma Physics, 2013, 79, 1081-1087.	2.1	4
59	Shuklaâ€Eliasson attractive force: Revisited. Journal of Plasma Physics, 2013, 79, 189-196.	2.1	40
60	Hydrodynamic theory for ion structure and stopping power in quantum plasmas. Physical Review E, 2013, 87, 043106.	2.1	36
61	Comment on â€œAttractive forces between ions in quantum plasmas: Failure of linearized quantum hydrodynamicsâ€• Physical Review E, 2013, 87, .	2.1	27
62	Crystallization and collapse in relativistically degenerate matter. Physics of Plasmas, 2013, 20, 042706.	1.9	33
63	Discussion on â€œNovel attractive force between ions in quantum plasmasâ€• failure of simulations based on a density functional approachâ€™. Physica Scripta, 2013, 87, 018202.	2.5	19
64	Field-induced degeneracy regimes in quantum plasmas. Physics of Plasmas, 2012, 19, 032703.	1.9	17
65	Orbital ferromagnetism and the Chandrasekhar mass-limit. Physics of Plasmas, 2012, 19, 052901.	1.9	2
66	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
67	Theory for large-amplitude electrostatic ion shocks in quantum plasmas. Physical Review E, 2012, 86, 066401.	2.1	31
68	Nonlinear excitations in strongly coupled Fermi-Dirac plasmas. Physics of Plasmas, 2012, 19, .	1.9	16
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	Characteristics of Quantum Magnetosonic-Wave Dispersion. IEEE Transactions on Plasma Science, 2012, 40, 1330-1337.	1.3	10
71	Exact nonlinear excitations in double-degenerate plasmas. Physics of Plasmas, 2012, 19, 062106.	1.9	3
72	Heavy-fermion instability in double-degenerate plasmas. Physics of Plasmas, 2012, 19, .	1.9	2

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73	Higher-order nonlinear electron-acoustic solitary excitations in partially degenerate quantum electron-ion plasmas. <i>Indian Journal of Physics</i> , 2012, 86, 413-422.	1.8	9
74	Universal characteristics of ion-acoustic wave dynamics in magnetized plasmas with emphasis on Tsallis distribution. <i>Astrophysics and Space Science</i> , 2012, 337, 613-622.	1.4	9
75	Nonlinear ion waves in Fermi-Dirac plasmas. <i>Physics of Plasmas</i> , 2011, 18, 012701.	1.9	31
76	Comment on "Interaction of two solitary waves in quantum electron-positron-ion plasma" [Phys. Plasmas 18, 052301 (2011)]. <i>Physics of Plasmas</i> , 2011, 18, 084701.	1.9	5
77	Spin-Induced Localized Density Excitations in Quantum Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 3180-3186.	1.3	4
78	Generalized matching criterion for electrostatic ion solitary propagations in quasineutral magnetized plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	7
79	Global limits on kinetic Alfvén speed in quasineutral plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	5
80	Propagation of arbitrary-amplitude ion waves in relativistically degenerate electron-ion plasmas. <i>Astrophysics and Space Science</i> , 2011, 332, 187-192.	1.4	46
81	Dynamics of nonlinear ion-waves in Fermi-Dirac electron-positron-ion magnetoplasmas. <i>Astrophysics and Space Science</i> , 2011, 333, 491-500.	1.4	11
82	Propagation and oblique collision of electron-acoustic solitons in two-electron-populated quantum plasmas. <i>Pramana - Journal of Physics</i> , 2011, 77, 369-382.	1.8	10
83	Propagation of ion-acoustic solitary waves in a relativistic electron-positron-ion plasma. <i>Canadian Journal of Physics</i> , 2011, 89, 299-309.	1.1	13
84	Quantum collapse in ground-state Fermi-Dirac-Landau plasmas. <i>Physics of Plasmas</i> , 2011, 18, 082706.	1.9	4
85	Remarkable paramagnetic features of Fermi-Dirac-Pauli plasmas. <i>Physics of Plasmas</i> , 2011, 18, 072702.	1.9	17
86	Orbital ferromagnetism and quantum collapse in stellar plasmas. <i>Physics of Plasmas</i> , 2011, 18, 112708.	1.9	4
87	Interaction of electrostatic acoustic solitary waves in a three-component pair-plasma: Oblique collision. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 1721-1727.	2.1	11
88	Relativistic Degeneracy Effect on Propagation of Arbitrary Amplitude Ion-Acoustic Solitons in Thomas-Fermi Plasmas. <i>Plasma and Fusion Research</i> , 2010, 5, 045-045.	0.7	15
89	Nonlinear modulation of ion-acoustic waves in two-electron-temperature plasmas. <i>Journal of Plasma Physics</i> , 2010, 76, 169-181.	2.1	12
90	Double-wells and double-layers in dusty Fermi-Dirac plasmas: Comparison with the semiclassical Thomas-Fermi counterpart. <i>Physics of Plasmas</i> , 2010, 17, 123709.	1.9	12

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91	Propagation and head-on collisions of ion-acoustic solitons in a Thomasâ€Fermi magnetoplasma: Relativistic degeneracy effects. <i>Physics of Plasmas</i> , 2010, 17, 072101.	1.9	60
92	Dressed electrostatic solitary waves in quantum dusty pair plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	32
93	Distinctive features of ion-acoustic solitons in electron-positron-ion superdense magnetoplasmas with degenerate electrons and positrons. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	29
94	Propagation and oblique collision of electrostatic solitary waves in quantum pair-plasmas. <i>Physics of Plasmas</i> , 2010, 17, 082317.	1.9	15
95	Comment on â€œThe effects of Bohm potential on ion-acoustic solitary waves interaction in a nonplanar quantum plasmaâ€•[Phys. Plasmas 17, 082307 (2010)]. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	12
96	Effects of ion-temperature on propagation of the large-amplitude ion-acoustic solitons in degenerate electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	45
97	Propagation of Arbitrary-Amplitude Nonlinear Quantum Ion-Acoustic Waves in Electronâ€Ion Plasmas: Dimensionality Effects. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 3336-3341.	1.3	13
98	Dressed electrostatic solitary excitations in three component pair-plasmas: Application in isothermal pair-plasma with stationary ions. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	19
99	Effects of positron density and temperature on ion-acoustic solitary waves in a magnetized electron-positron-ion plasma: Oblique propagation. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	30