

Aman-ur-Rehman

List of Publications by Year in descending order

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62
papers

451
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687363

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64
docs citations

64
times ranked

293
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic study of ion-acoustic plasma vortices. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	28
2	A study of the role of various reactions on the density distribution of hydrogen, silylene, and silyl in SiH ₄ /H ₂ plasma discharges. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	23
3	Tuning effect of inert gas mixing on electron energy distribution function in inductively coupled discharges. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, 61-70.	2.1	21
4	Slit shaped microwave induced atmospheric pressure plasma based on a parallel plate transmission line resonator. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 435201.	2.8	21
5	Landau damping of Langmuir twisted waves with kappa distributed electrons. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	20
6	Effect of orbital angular momentum on electron acoustic waves in double- κ plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1690-1701.	2.4	19
7	Kinetic study of electrostatic twisted waves instability in nonthermal dusty plasmas. <i>Physics of Plasmas</i> , 2017, 24, 033701.	1.9	19
8	Nonlinear magnetosonic waves in dense plasmas with non-relativistic and ultra-relativistic degenerate electrons. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	17
9	Twisted electron-acoustic waves in plasmas. <i>Physics of Plasmas</i> , 2016, 23, 082122.	1.9	17
10	Kinetic study of ion acoustic twisted waves with kappa distributed electrons. <i>Physics of Plasmas</i> , 2016, 23, 052107.	1.9	15
11	A study of the non-Maxwellian pair-ion and pair-ion-electron plasmas. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	15
12	Revisiting some analytical and numerical interpretations of Cairns and Kappa- κ Cairns distribution functions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	15
13	Compressive and rarefactive ion acoustic solitons in a magnetized two-ion component plasma. <i>Physica Scripta</i> , 2014, 89, 105605.	2.5	14
14	Electron acoustic waves in a plasma with a q-nonextensive distribution of electrons. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	14
15	Ion-acoustic waves in non-Maxwellian magnetospheric electron-positron-ion plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 585-590.	1.4	12
16	Numerical study of capacitive coupled HBr/Cl ₂ plasma discharge for dry etch applications. <i>Physics of Plasmas</i> , 2016, 23, 093508.	1.9	11
17	Electron-acoustic solitary waves in a beam plasma with electron trapping and nonextensivity effects. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	10
18	Stability criterion for the non-Maxwellian permeating plasma. <i>Astrophysics and Space Science</i> , 2014, 350, 169-174.	1.4	9

#	ARTICLE	IF	CITATIONS
19	Ions shear flow and electron field-aligned current produce ion acoustic waves in the oxygen-hydrogen ionospheric plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	9
20	Improved continuum lowering calculations in screened hydrogenic model with l-splitting for high energy density systems. <i>High Energy Density Physics</i> , 2018, 26, 48-55.	1.5	9
21	Effect of axial finiteness on electron heating in low-frequency inductively coupled plasmas. <i>Physics of Plasmas</i> , 2006, 13, 104503.	1.9	8
22	Numerical investigation of HBr/He transformer coupled plasmas used for silicon etching. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 025202.	2.8	8
23	Kinetic study of ion-acoustic waves in non-thermal Vasyliunasâ€Cairns distributed plasmas. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	8
24	Nonplanar shocks in a warm electronegative plasma with electron nonextensivity effects. <i>Astrophysics and Space Science</i> , 2014, 353, 151-162.	1.4	7
25	Effect of collisions on Weibel instability with anisotropic electron distributions. <i>Physics of Plasmas</i> , 2017, 24, 122113.	1.9	7
26	Kinetic theory of ion acoustic waves in aq-nonextensive distributed ions and electrons plasma. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 506, 938-948.	2.6	7
27	Effect of nonâ€Cextensivity parameter $\langle i \rangle q \langle /i \rangle$ on the damping rate of dust ion acoustic waves in nonâ€Cextensive dusty plasma. <i>Contributions To Plasma Physics</i> , 2019, 59, 54-62.	1.1	7
28	Numerical and Analytical Study of Electron Plasma Waves in Nonthermal Vasyliunasâ€Cairns Distributed Plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029626.	2.4	7
29	A comparative study of capacitively coupled HBr/He, HBr/Ar plasmas for etching applications: Numerical investigation by fluid model. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	6
30	Excitation of IAWs by ions shear flow and electron parallel current in positive-negative ion plasma. <i>Physics of Plasmas</i> , 2019, 26, 112105.	1.9	6
31	Nonlinear oscillatory and monotonic shocks in dense plasmas with ultra-relativistic degenerate electrons. <i>Astrophysics and Space Science</i> , 2015, 359, 1.	1.4	5
32	Fluid Simulation of Capacitively Coupled HBr/Ar Plasma for Etching Applications. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 1363-1375.	2.4	5
33	Dust ionâ€Cacoustic solitons with trapped $\langle i \rangle q \langle /i \rangle$ â€Cnonâ€Cextensive electrons, dissipative processes, and streaming ions. <i>Contributions To Plasma Physics</i> , 2019, 59, 9-19.	1.1	5
34	Effect of boundary conditions on the classical skin depth and nonlocal behavior in inductively coupled plasmas. <i>Physics of Plasmas</i> , 2005, 12, 094503.	1.9	4
35	Effect of electron thermal motion on plasma heating in a magnetized inductively coupled plasma. <i>Physics of Plasmas</i> , 2007, 14, 063503.	1.9	4
36	Nonplanar solitons in a warm electronegative plasma with electron nonextensivity effects. <i>Astrophysics and Space Science</i> , 2014, 352, 593-604.	1.4	4

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37	Effective viscosity model for electron heating in warm magnetized inductively coupled plasma discharges. <i>Physics of Plasmas</i> , 2009, 16, 083504.	1.9	3
38	A numerical study of the effect of various reactions, pressure and gas mixture ratio on the density distribution of etchant species (H, Br, Br+, and HBr+) in HBr/He plasma. <i>Physics of Plasmas</i> , 2016, 23, 043506.	1.9	3
39	Drift dust acoustic soliton in the presence of field-aligned sheared flow and nonextensivity effects. <i>Physics of Plasmas</i> , 2018, 25, 053706.	1.9	3
40	Numerical investigation of the effect of variation of gas mixture ratio on density distribution of etchant species (Br, Br+, Cl, Cl+, and H) in HBr/Cl ₂ /Ar plasma discharge. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	3
41	Generation of Short-scale Electrostatic Fields in the Solar Atmosphere and the Role of Helium Ions. <i>Astrophysical Journal</i> , 2021, 922, 48.	4.5	3
42	Nonlocal collisionless power absorption using effective viscosity model in inductively coupled plasma discharges. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	2
43	Effect of Electron Heating Mode on Charge-Up Damage in Dual-Frequency Capacitive Discharges. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2530-2531.	1.3	2
44	Kinetic study of twisted electron plasma waves in q-nonextensive plasmas. <i>AIP Advances</i> , 2018, 8, 045013.	1.3	2
45	Stability analysis of the acoustic like modes in nonextensive pair ion plasma. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	2
46	Variation of fraction in FOPID controller for vibration control of Eulerâ€Bernoulli beam. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	2
47	Comment on â€Kinetic Study of Dust Ion Acoustic Waves in a Nonthermal Plasmaâ€[<i>J. Phys. Soc. Jpn.</i> 88, 034501 (2019)]. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 096001.	1.6	2
48	Numerical Study of SF ₆ /O ₂ Plasma Discharge for Etching Applications. <i>Plasma Chemistry and Plasma Processing</i> , 2021, 41, 1223-1238.	2.4	2
49	Electron firehose instability in kappa-Maxwellian-distributed space plasmas. <i>Physics of Plasmas</i> , 2021, 28, 082101.	1.9	2
50	Study of Gamma Irradiation Induced Conductivity in Dielectric Materials of Coaxial Cables. , 2015, , .		1
51	Comment on â€The ion kinetic D'Angelo modeâ€[<i>Phys. Plasmas</i> 18, 102105 (2011)]. <i>Physics of Plasmas</i> , 2015, 22, 044703.	1.9	1
52	Numerical Study of HBr/He Discharges in Capacitive Coupled Plasma Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 857-868.	2.4	1
53	Steady state heat transfer using Galerkin finite element method. , 2015, , .		0
54	Quantum Ion-Acoustic Oscillations in Single-Walled Carbon Nanotubes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016, 71, 397-404.	1.5	0

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55	Electron Bernstein waves in a collisionless magnetoplasma with Cairns distribution function. Canadian Journal of Physics, 2018, 96, 406-410.	1.1	0
56	Ion population fraction calculations using improved screened hydrogenic model with l -splitting. Chinese Physics B, 2018, 27, 105201.	1.4	0
57	Surface impedance and skin depth for transverse waves in temperature anisotropic unmagnetized plasma. Physics of Plasmas, 2019, 26, 082116.	1.9	0
58	Comment on "Langmuir oscillations in a nonextensive electron-positron plasma". Physical Review E, 2019, 99, 017201.	2.1	0
59	Effect of radiation on compressibility of hot dense sodium and iron plasma using improved screened hydrogenic model with l splitting. Chinese Physics B, 2021, 30, 033102.	1.4	0
60	Dispersion Relations for Electron Acoustic Waves in Plasmas with Anisotropic Power Law Distributions. , 2021, , .		0
61	Magnetosonic waves in ion trapped semiconductor chip plasma with effect of exchange correlation potential and relativistic degeneracy. Physica Scripta, 2022, 97, 025603.	2.5	0
62	Design and simulation of a high fidelity multi-stage power converter for pre-heating of industrial magnetrons. , 2020, , .		0