

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
times ranked

293
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetosonic waves in ion trapped semiconductor chip plasma with effect of exchange correlation potential and relativistic degeneracy. <i>Physica Scripta</i> , 2022, 97, 025603.	2.5	0
2	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
3	Effect of radiation on compressibility of hot dense sodium and iron plasma using improved screened hydrogenic model with l splitting. <i>Chinese Physics B</i> , 2021, 30, 033102.	1.4	0
4	Numerical Study of SF6/O2 Plasma Discharge for Etching Applications. <i>Plasma Chemistry and Plasma Processing</i> , 2021, 41, 1223-1238.	2.4	2
5	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
6	Dispersion Relations for Electron Acoustic Waves in Plasmas with Anisotropic Power Law Distributions. , 2021, , .		0
7	Electron firehose instability in kappa-Maxwellian-distributed space plasmas. <i>Physics of Plasmas</i> , 2021, 28, 082101.	1.9	2
8	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
9	Variation of fraction in FOPID controller for vibration control of Eulerâ€CBernoulli beam. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	2
10	Revisiting some analytical and numerical interpretations of Cairns and Kappaâ€Cairns distribution functions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	15
11	Comment on â€œKinetic Study of Dust Ion Acoustic Waves in a Nonthermal Plasmaâ€C[J. Phys. Soc. Jpn. 88, 034501 (2019)]. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 096001.	1.6	2
12	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/Cl2/Ar plasma discharge. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	3
13	Design and simulation of a high fidelity multi-stage power converter for pre-heating of industrial magnetrons. , 2020, , .		0
14	Dust ionâ€Cacoustic solitons with trapped $\langle i \rangle q \langle /i \rangle$ nonâ€Cextensive electrons, dissipative processes, and streaming ions. <i>Contributions To Plasma Physics</i> , 2019, 59, 9-19.	1.1	5
15	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
16	Surface impedance and skin depth for transverse waves in temperature anisotropic unmagnetized plasma. <i>Physics of Plasmas</i> , 2019, 26, 082116.	1.9	0
17	Stability analysis of the acoustic like modes in nonextensive pair ion plasma. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	2
18	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

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19	Comment on "Langmuir oscillations in a nonextensive electron-positron plasma". Physical Review E, 2019, 99, 017201.	2.1	0
20	A study of the non-Maxwellian pair-ion and pair-ion-electron plasmas. Physics of Plasmas, 2018, 25, .	1.9	15
21	Electron acoustic waves in a plasma with a q-nonextensive distribution of electrons. Physics of Plasmas, 2018, 25, .	1.9	14
22	Improved continuum lowering calculations in screened hydrogenic model with l-splitting for high energy density systems. High Energy Density Physics, 2018, 26, 48-55.	1.5	9
23	Electron Bernstein waves in a collisionless magnetoplasma with Cairns distribution function. Canadian Journal of Physics, 2018, 96, 406-410.	1.1	0
24	Ion population fraction calculations using improved screened hydrogenic model with l-splitting. Chinese Physics B, 2018, 27, 105201.	1.4	0
25	Kinetic theory of ion acoustic waves in a q-nonextensive distributed ions and electrons plasma. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 938-948.	2.6	7
26	Drift dust acoustic soliton in the presence of field-aligned sheared flow and nonextensivity effects. Physics of Plasmas, 2018, 25, 053706.	1.9	3
27	Kinetic study of twisted electron plasma waves in q-nonextensive plasmas. AIP Advances, 2018, 8, 045013.	1.3	2
28	Effect of orbital angular momentum on electron acoustic waves in double-Kappa plasma. Journal of Geophysical Research: Space Physics, 2017, 122, 1690-1701.	2.4	19
29	Kinetic study of electrostatic twisted waves instability in nonthermal dusty plasmas. Physics of Plasmas, 2017, 24, 033701.	1.9	19
30	Effect of collisions on Weibel instability with anisotropic electron distributions. Physics of Plasmas, 2017, 24, 122113.	1.9	7
31	Ions shear flow and electron field-aligned current produce ion acoustic waves in the oxygen-hydrogen ionospheric plasma. Physics of Plasmas, 2017, 24, .	1.9	9
32	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. Physics of Plasmas, 2016, 23, 043506.	1.9	3
33	Kinetic study of ion acoustic twisted waves with kappa distributed electrons. Physics of Plasmas, 2016, 23, 052107.	1.9	15
34	Electron-acoustic solitary waves in a beam plasma with electron trapping and nonextensivity effects. Physics of Plasmas, 2016, 23, .	1.9	10
35	Twisted electron-acoustic waves in plasmas. Physics of Plasmas, 2016, 23, 082122.	1.9	17
36	Fluid Simulation of Capacitively Coupled HBr/Ar Plasma for Etching Applications. Plasma Chemistry and Plasma Processing, 2016, 36, 1363-1375.	2.4	5

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37	Numerical study of capacitive coupled HBr/Cl ₂ plasma discharge for dry etch applications. Physics of Plasmas, 2016, 23, 093508.	1.9	11
38	Quantum Ion-Acoustic Oscillations in Single-Walled Carbon Nanotubes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 397-404.	1.5	0
39	Numerical Study of HBr/He Discharges in Capacitive Coupled Plasma Reactor. Plasma Chemistry and Plasma Processing, 2016, 36, 857-868.	2.4	1
40	Landau damping of Langmuir twisted waves with kappa distributed electrons. Physics of Plasmas, 2015, 22, .	1.9	20
41	A comparative study of capacitively coupled HBr/He, HBr/Ar plasmas for etching applications: Numerical investigation by fluid model. Physics of Plasmas, 2015, 22, .	1.9	6
42	Steady state heat transfer using Galerkin finite element method. , 2015, , .		0
43	Study of Gamma Irradiation Induced Conductivity in Dielectric Materials of Coaxial Cables. , 2015, , .		1
44	Comment on "The ion kinetic D'Angelo mode"[Phys. Plasmas 18, 102105 (2011)]. Physics of Plasmas, 2015, 22, 044703.	1.9	1
45	Nonlinear oscillatory and monotonic shocks in dense plasmas with ultra-relativistic degenerate electrons. Astrophysics and Space Science, 2015, 359, 1.	1.4	5
46	Numerical investigation of HBr/He transformer coupled plasmas used for silicon etching. Journal Physics D: Applied Physics, 2015, 48, 025202.	2.8	8
47	Nonlinear magnetosonic waves in dense plasmas with non-relativistic and ultra-relativistic degenerate electrons. Physics of Plasmas, 2014, 21, .	1.9	17
48	Stability criterion for the non-Maxwellian permeating plasma. Astrophysics and Space Science, 2014, 350, 169-174.	1.4	9
49	Ion-acoustic waves in non-Maxwellian magnetospheric electron-positron-ion plasma. Astrophysics and Space Science, 2014, 350, 585-590.	1.4	12
50	Nonplanar solitons in a warm electronegative plasma with electron nonextensivity effects. Astrophysics and Space Science, 2014, 352, 593-604.	1.4	4
51	Kinetic study of ion-acoustic plasma vortices. Physics of Plasmas, 2014, 21, .	1.9	28
52	Nonplanar shocks in a warm electronegative plasma with electron nonextensivity effects. Astrophysics and Space Science, 2014, 353, 151-162.	1.4	7
53	Compressive and rarefactive ion acoustic solitons in a magnetized two-ion component plasma. Physica Scripta, 2014, 89, 105605.	2.5	14
54	Slit shaped microwave induced atmospheric pressure plasma based on a parallel plate transmission line resonator. Journal Physics D: Applied Physics, 2011, 44, 435201.	2.8	21

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55	Effect of Electron Heating Mode on Charge-Up Damage in Dual-Frequency Capacitive Discharges. IEEE Transactions on Plasma Science, 2011, 39, 2530-2531.	1.3	2
56	A study of the role of various reactions on the density distribution of hydrogen, silylene, and silyl in SiH ₄ /H ₂ plasma discharges. Physics of Plasmas, 2011, 18, .	1.9	23
57	Nonlocal collisionless power absorption using effective viscosity model in inductively coupled plasma discharges. Physics of Plasmas, 2009, 16, .	1.9	2
58	Effective viscosity model for electron heating in warm magnetized inductively coupled plasma discharges. Physics of Plasmas, 2009, 16, 083504.	1.9	3
59	Effect of electron thermal motion on plasma heating in a magnetized inductively coupled plasma. Physics of Plasmas, 2007, 14, 063503.	1.9	4
60	Tuning effect of inert gas mixing on electron energy distribution function in inductively coupled discharges. Plasma Physics and Controlled Fusion, 2006, 48, 61-70.	2.1	21
61	Effect of axial finiteness on electron heating in low-frequency inductively coupled plasmas. Physics of Plasmas, 2006, 13, 104503.	1.9	8
62	Effect of boundary conditions on the classical skin depth and nonlocal behavior in inductively coupled plasmas. Physics of Plasmas, 2005, 12, 094503.	1.9	4