

A Abdoli-Arani

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Scattering from an elliptical cylindrical plasma for electromagnetic waves with wavelength much greater than the dimensions of the plasma cross-section. <i>Waves in Random and Complex Media</i> , 2012, 22, 370-382.	2.7	16
2	Acceleration of an Electron Inside the Circular and Elliptical Waveguides by Microwave Radiation. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 62-69.	1.3	13
3	Propagation of electromagnetic waves in elliptical waveguides made of materials with anisotropic Hermitian dielectric tensors. <i>Waves in Random and Complex Media</i> , 2011, 21, 3-12.	2.7	11
4	The dielectric tensor and field equations in the inhomogeneous cold collisionless magnetized drift plasmas with elliptical cross sections. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4614-4617.	2.1	10
5	Time growth rate and field profiles of hybrid modes excited by a relativistic elliptical electron beam in an elliptical metallic waveguide with dielectric rod. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	10
6	Modification of density profile at interaction of three superposing fundamental modes with plasma in a cylindrical waveguide. <i>Waves in Random and Complex Media</i> , 2014, 24, 316-332.	2.7	10
7	Acceleration and Deflection of an Electron Inside the Circular Sectoral Plasma Waveguides. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 3109-3114.	1.3	9
8	A new description based on modified Airy function for interference in moving magnetized plasma slabs. <i>Waves in Random and Complex Media</i> , 2012, 22, 160-185.	2.7	7
9	Influence of Thermal and Collisional Effects on the Dielectric Permittivity Tensor in a Multi Layer Plasma Waveguide With Elliptical Cross Section. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 414-420.	1.3	7
10	Analysis of long wavelength electromagnetic scattering by a magnetized cold plasma prolate spheroid. <i>Waves in Random and Complex Media</i> , 2013, 23, 336-348.	2.7	7
11	Influence of electron-ion collisions in plasma on the electron energy gain using the TE_{11} mode inside an elliptical waveguide. <i>Physica Scripta</i> , 2016, 91, 095602.	2.5	7
12	Influence of ponderomotive force on the microwave and plasma interaction in an elliptical waveguide. <i>Physics of Plasmas</i> , 2014, 21, 023506.	1.9	6
13	The effect of ponderomotive force on the density in the interaction of two superposing fundamental modes with plasma in an elliptical waveguide. <i>Plasma Sources Science and Technology</i> , 2014, 23, 065027.	3.1	6
14	Electron energy gain in the fundamental mode of an elliptical waveguide in the presence of static helical magnet by microwave radiation. <i>Waves in Random and Complex Media</i> , 2015, 25, 243-258.	2.7	6
15	Electron acceleration considering ponderomotive force effect in a plasma-filled rectangular waveguide by microwave radiation. <i>Waves in Random and Complex Media</i> , 2016, 26, 407-416.	2.7	6
16	Dielectric tensor elements for the description of waves in rotating inhomogeneous magnetized plasma spheroids. <i>Waves in Random and Complex Media</i> , 2012, 22, 459-474.	2.7	5
17	Study of electron acceleration through the mode in a collisional plasma-filled cylindrical waveguide. <i>Waves in Random and Complex Media</i> , 2016, 26, 339-347.	2.7	5
18	Dispersion Relation of TM Mode Electromagnetic Waves in the Rippled-Wall Elliptical Plasma and Dielectric Waveguide in Presence of Elliptical Annular Electron Beam. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2480-2488.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Acceleration and dynamics of an electron in the degenerate and magnetized plasma elliptical waveguide. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	4
20	Effect of relativistic elliptical beam modulation on excitation of surface plasma waves in a magnetized dusty plasma column with elliptical cross section. <i>Waves in Random and Complex Media</i> , 2013, 23, 114-127.	2.7	4
21	Optical properties of the electromagnetic waves propagating in an elliptical cylinder multilayer structure. <i>Chinese Physics B</i> , 2014, 23, 034211.	1.4	4
22	Electron energy gain in the transverse electric mode of a coaxial waveguide filled with plasma by microwave radiation. <i>Waves in Random and Complex Media</i> , 2015, 25, 350-360.	2.7	4
23	Nonlinear effect of microwave longitudinal ponderomotive force on the dynamics and energy of an externally injected electron in an inhomogeneous plasma-filled circular and elliptical cylinder waveguides. <i>Waves in Random and Complex Media</i> , 2021, 31, 165-181.	2.7	4
24	Field analysis for a configuration of sheath helix in the presence of a metallic rod. <i>Waves in Random and Complex Media</i> , 2017, 27, 185-194.	2.7	3
25	About Cherenkov and Cyclotron Wave Excitations by Elliptical Relativistic Modulated Electron Beam in a Cylindrical Plasma Column With Elliptical Cross Section. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 821-827.	1.3	2
26	Electromagnetic modeling of the energy distribution of a metallic cylindrical parabolic reflector covered with a magnetized plasma layer. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	2
27	The Response of a Rotating Magnetized Cold Plasma Spheroid in the Presence of a Long-Wavelength Electromagnetic Wave. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1830-1838.	1.3	2
28	Plasma Waves Dispersion Relation at Near of the Cosmological Black Holes in an Expanding Universe Dominated by Dark Energy. <i>International Journal of Theoretical Physics</i> , 2015, 54, 3359-3367.	1.2	2
29	Dispersion relation for space-charge waves in a warm plasma-filled elliptical waveguide in an infinite axial magnetic field. <i>Waves in Random and Complex Media</i> , 2015, 25, 259-267.	2.7	2
30	Resonance of warm plasma column with elliptical cross-section at scattering of long-wavelength electromagnetic waves. <i>Waves in Random and Complex Media</i> , 2015, 25, 286-292.	2.7	2
31	Dispersion relation and electron acceleration in the combined circular and elliptical metallic-dielectric waveguide filled by plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	2
32	Bound state energy and wave function of tetraquark $b\bar{b}, \bar{b}b, ud$ from lattice QCD potential. <i>Modern Physics Letters A</i> , 2019, 34, 1950220.	1.2	2
33	Study on the Influence of Two Relativistic Circular Electron Beam Columns Placed in an Elliptical Dielectric Waveguide on Excitation and Amplification of Electromagnetic Waves Using Finite-Element Method. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 1254-1261.	1.3	2
34	Single electron acceleration in an isosceles right triangular waveguide. <i>Indian Journal of Physics</i> , 2020, 94, 1279-1292.	1.8	2
35	Theoretical calculation of the dielectric tensor and field equations in columns with elliptical cross-sections including inhomogeneous magnetized cold collisionless drift and rotating plasmas. <i>Waves in Random and Complex Media</i> , 2011, 21, 405-417.	2.7	1
36	About excitation of surface plasma waves by elliptical relativistic electron beam in a magnetized dusty plasma column with elliptical cross section. <i>Physics of Plasmas</i> , 2012, 19, 053701.	1.9	1

#	ARTICLE	IF	CITATIONS
37	Interference simulation in a cold collisionless moving magnetized plasma slab and (free surface of) Tj ETQq1 1 0.784314 rgBT ₁ /Overlo	2.7	1
38	Generalized permittivity tensor for the description of waves in general relativistic plasma around a Schwarzschild black hole. Journal of Plasma Physics, 2014, 80, 619-628.	2.1	1
39	Theoretical investigation of resonance frequencies in long wavelength electromagnetic wave scattering process from plasma prolate and oblate spheroids placed in a dielectric layer. Waves in Random and Complex Media, 2014, 24, 83-98.	2.7	1
40	Investigation of plasma waves propagation around traversible wormhole's throat. Waves in Random and Complex Media, 2015, 25, 1-8.	2.7	1
41	Electron density profile inside a cylindrical plasma with elliptical cross section in a microwave discharge. Indian Journal of Physics, 2021, 95, 1557-1562.	1.8	1
42	Fields and injected electron dynamic in the coaxial waveguide with Piet Hein cross section filled plasma considering TE and TM modes. European Physical Journal Plus, 2022, 137, 1.	2.6	1
43	Simulation of Gaussian electromagnetic wave interaction and its effect on the dynamics of metallic nanosphere (repulsion or even elasticity). European Physical Journal Plus, 2022, 137, 1.	2.6	1
44	Investigation of TE and TM modes fields and injected electron dynamic in the plasma waveguide with Piet Hein cross section. Physica Scripta, 2022, 97, 035505.	2.5	1
45	Scattering and resonant frequency of a toroidal plasma covered by a dielectric layer. Chinese Journal of Physics, 2022, 77, 945-955.	3.9	1
46	Trajectories in relativistic electron beam with elliptical cross section under the effects of self-fields, axial, planar and helical wiggler magnetic fields. Waves in Random and Complex Media, 2020, , 1-15.	2.7	0
47	Enhancement of Gain and Modified Electron Beam Trajectories Using a Relativistic Electron Beam With an Elliptical Cross Section in Free-Electron Laser With a Helical Wiggler and Ion-Channel Guiding. IEEE Transactions on Plasma Science, 2020, 48, 2396-2407.	1.3	0
48	Energy and trajectory of injected electron in the mixed circular and elliptical waveguide filled magnetized plasma. Optik, 2021, 225, 165349.	2.9	0
49	Electromagnetic Fields and Trajectory of Injected Electron Inside an Elliptical Coaxial Magnetized Plasma Waveguide. IEEE Transactions on Plasma Science, 2021, 49, 244-250.	1.3	0
50	Dispersion properties and beam excitation of symmetric slow waves in helix traveling wave tubes in the presence of plasma. Journal of Electromagnetic Waves and Applications, 2022, 36, 637-654.	1.6	0
51	Study of gain and trajectories in elliptical electron beam considering a planar wiggler and self fields and ion-channel in free electron laser. Chinese Journal of Physics, 2022, , .	3.9	0
52	Elliptical and circular annular solid electron beam for excitation of hybrid modes in the plasma combined circular and elliptical waveguides. Optik, 2022, , 168988.	2.9	0
53	The plasma nanosphere cooling rate simulation in the presence of the coherent electromagnetic waves with Gaussian profile. European Physical Journal D, 2022, 76, .	1.3	0