

Bahram Jazi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6644750/publications.pdf>

Version: 2024-02-01

86
papers

808
citations

567281

15
h-index

552781

26
g-index

88
all docs

88
docs citations

88
times ranked

653
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	The mode generation due to the wave transmission phenomena from a loss free isotropic cylindrical metallic waveguide to the semi-bounded plasma waveguide. Waves in Random and Complex Media, 2021, 31, 1287-1302.	2.7	5
4	The role of the filamented multi-electron beams on electron azimuthal acceleration in a plasma waveguide. Optik, 2021, 226, 165768.	2.9	0
5	A novel approach in heating phenomena of the drift plasmas in the presence of rotating magnetic field: Appearance of anti-Hermitian part in dielectric tensor. Pramana - Journal of Physics, 2021, 95, 1.	1.8	0
6	Measurement of plasma current in Damavand tokamak using magnetic probes assembly as a discrete Rogowski coil. Fusion Engineering and Design, 2021, 168, 112414.	1.9	0
7	The cylindrical column lenses and reflectors made of transverse an-isotropic plasma and dielectrics and their response to presence of plane electromagnetic waves. Optik, 2021, 241, 167257.	2.9	0
8	Plasma-covered long cylindrical non-isotropic dielectric lenses for targeted control of energy distribution. European Physical Journal Plus, 2020, 135, 1.	2.6	0
9	The description of mode matching method, in electromagnetic wave transmission from a loss free semi-bounded waveguide to the plasma waveguide. European Physical Journal Plus, 2020, 135, 1.	2.6	0
10	A theoretical investigation of the presence of the azimuthal backward waves (ABWs) and their amplification in a magnetized plasma waveguide with two annular rotating energy sources. European Physical Journal D, 2020, 74, 1.	1.3	1
11	The heating phenomenon of a plasma column by electromagnetic wave injection from a semi-bounded waveguide. Optik, 2020, 224, 165643.	2.9	0
12	The Infrared (Far Terahertz) Generation by Nonlinear Interactions of Two Visible Laser Beams in a Metallic Background: Infrared Surface Plasmon Effect. Plasmonics, 2019, 14, 25-32.	3.4	2
13	About Azimuthal Acceleration of the Electrons by Azimuthal Surface Waves in a Dielectric-Lined Circular Waveguide With Two Thin Annular Rotating Electron Beams. IEEE Transactions on Plasma Science, 2019, 47, 4012-4025.	1.3	1
14	A theoretical study for temperature effects on the dominant color in colloidal nano sphere solutions. Physica Scripta, 2019, 94, 125002.	2.5	0
15	About the helix plasma antenna: effective factors on characteristics of radiation. Waves in Random and Complex Media, 2019, , 1-20.	2.7	1
16	The influence of static magnetic field on nonlinear response of a plasma background in the presence of two laser beams with different profiles (Hermite and Laguerre Gaussian). Laser Physics, 2019, 29, 046002.	1.2	4
17	The Dependence of Resonance Frequency to Landing Angle in Reciprocal Scattering Phenomena of the Waves From an Elliptical Plasma Dielectric Antenna. IEEE Transactions on Plasma Science, 2019, 47, 233-242.	1.3	3
18	About Generation of Terahertz Radiation Due to the Nonlinear Interaction of Gaussian and Hermite Cosh Gaussian Laser Beams in Collisional Plasma Background: Optimization and Field Profile Controlling. IEEE Transactions on Plasma Science, 2019, 47, 155-161.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Terahertz radiation generation through the nonlinear interaction of Hermite and Laguerre Gaussian laser beams with collisional plasma: Field profile optimization. <i>Journal of Applied Physics</i> , 2018, 123, 153101.	2.5	19
20	A description on plasma background effect in growth rate of THz waves in a metallic cylindrical waveguide, including a dielectric tube and two current sources. <i>Indian Journal of Physics</i> , 2018, 92, 1307-1318.	1.8	5
21	The Effects of a Transverse Anisotropy Dielectric Rod in Excitation and Amplification Phenomena of Hybrid Electromagnetic Waves in a Cylindrical Metallic Waveguide. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 72-83.	1.3	1
22	Modeling of a bimetallic eccentric cylindrical plasma waveguide based on a transmission line for TEM-mode. <i>Waves in Random and Complex Media</i> , 2018, 28, 488-507.	2.7	0
23	A Theoretical Description for Elliptical Plasma Antenna Response in Presence of Terahertz Electromagnetic Plane Wave Based on Surface Plasmon Concept. <i>Plasmonics</i> , 2018, 13, 1449-1457.	3.4	1
24	Time growth rate optimisation of terahertz electromagnetic wave generation by converting occupied plasma region from annular plasma to filled plasma in the core, in an elliptical Cherenkov maser with two energy sources. <i>Pramana - Journal of Physics</i> , 2018, 91, 1.	1.8	1
25	Finite magneto-static field effect on the excitation of THz hybrid modes in an elliptical metallic plasma waveguide with two energy sources. <i>Physics of Plasmas</i> , 2017, 24, 052106.	1.9	5
26	A mathematical description for the scattering phenomena of plane wave from elliptical plasma antenna located in oblique static magnetic field. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	3
27	The classical and theoretical simulation for dominant radiated frequencies of plasma nanowire in presence of a long monopole antenna with long wavelength radiation. <i>Journal of Applied Physics</i> , 2017, 121, 204304.	2.5	1
28	Analytical formulation for the dielectric tensor and field equations of the inhomogeneous drift plasma cylinder in rotating magnetic field. <i>Physics of Plasmas</i> , 2017, 24, 042101.	1.9	2
29	The presence of two electron beams in a Cherenkov maser and their different behavior for generation and amplification of THz electromagnetic waves. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	8
30	An electromagnetic description for collisional drift thermal plasmas in the presence of a rotating magnetic field. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	2
31	About background plasma effects on excitation and generation of the waves in a cylindrical metallic waveguide with anisotropic dielectric rod. <i>Physics of Plasmas</i> , 2017, 24, 112107.	1.9	1
32	The role of terahertz surface plasmons in the scattering pattern of electromagnetic waves in an unstable elliptical plasma antenna. <i>Physics of Plasmas</i> , 2017, 24, 072112.	1.9	3
33	Theoretical Modeling of Average Force Acted on Nano Plasma Spheres in Presence of Radiation of Long Wavelength Point Source. <i>Plasmonics</i> , 2017, 12, 1245-1255.	3.4	6
34	Different roles of electron beam in two stream instability in an elliptical waveguide for generation and amplification of THz electromagnetic waves. <i>Physics of Plasmas</i> , 2016, 23, 083110.	1.9	8
35	The Plasma Background Effect on Time Growth Rate of Terahertz Hybrid Modes in an Elliptical Metallic Waveguide With Two Electron Beams as Energy Source. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 2356-2365.	1.3	7
36	A theoretical study of hot plasma spheroids in the presence of low-frequency electromagnetic waves. <i>Waves in Random and Complex Media</i> , 2016, 26, 348-364.	2.7	1

#	ARTICLE	IF	CITATIONS
37	Scattering from an eccentric system, including a dielectric rod placed in a thin annular magnetized relativistic rotating electron beam (TAMRREB). <i>Waves in Random and Complex Media</i> , 2015, 25, 141-153.	2.7	5
38	Magnetic Field Effects on Resonance Frequency of the Plasmons in Electromagnetic Wave Scattering Process from a Dielectric-Covered Metallic Rod Placed in a Plasma Antenna. <i>Plasmonics</i> , 2015, 10, 411-418.	3.4	2
39	Terahertz electromagnetic wave generation and amplification by an electron beam in the elliptical plasma waveguides with dielectric rod. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	19
40	Long Plasma Column With a Non-Coaxial Dielectric Rod Irradiated by an Electromagnetic Wave. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 62-72.	1.3	4
41	Energy Distribution Along the Focal Axis of a Metallic Cylindrical Parabolic Reflector Covered With a Plasma Layer. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 286-292.	1.3	7
42	Theoretical investigation of resonance frequencies in long wavelength electromagnetic wave scattering process from plasma prolate and oblate spheroids placed in a dielectric layer. <i>Waves in Random and Complex Media</i> , 2014, 24, 83-98.	2.7	1
43	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
44	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
45	The Role of Resonance Frequency of the Plasmons in Electromagnetic Wave Scattering Process from a Dielectric Covered Metallic Rod Placed in a Plasma Antenna. <i>Plasmonics</i> , 2014, 9, 1121-1132.	3.4	6
46	Electromagnetic Wave Scattering From a Thin Annular Magnetized Relativistic Rotating Electron Beam With Dielectric Rod. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 3757-3764.	5.1	5
47	Electromagnetic wave scattering from a magnetized plasma column including a thin annular magnetized relativistic rotating electron beam (TAMRREB). <i>Waves in Random and Complex Media</i> , 2013, 23, 411-434.	2.7	1
48	Acceleration and dynamics of an electron in the degenerate and magnetized plasma elliptical waveguide. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	4
49	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
50	Reflection and Absorption of Electromagnetic Wave Propagation in an Inhomogeneous Dissipative Magnetized Plasma Slab. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 290-295.	1.3	37
51	Total transparency of a two-moving-magnetized-plasma-layer structure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 1448-1454.	2.1	2
52	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
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	Analysis of the reflection of electromagnetic waves in an unsteady moving magnetized plasma slab. <i>Waves in Random and Complex Media</i> , 2012, 22, 571-588.	2.7	2
57	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
58	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
59	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
60	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
61	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
62	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
63	Dielectric Constants of Water, Methanol, Ethanol, Butanol and Acetone: Measurement and Computational Study. <i>Journal of Solution Chemistry</i> , 2010, 39, 701-708.	1.2	211
64	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
65	Generation and amplification of terahertz electromagnetic waves in a plasma waveguide with a dielectric rod and an annular degenerate plasma. <i>Waves in Random and Complex Media</i> , 2010, 20, 472-490.	2.7	14
66	The single-wall carbon nanotube waveguides and excitation of their $f + i\epsilon$ plasmons by an electron beam. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	15
67	Response to "Comment on 'The single-wall carbon nanotube waveguides and excitation of their $f + i\epsilon$ plasmons by an electron beam'" [Phys. Plasmas 16, 054705 (2009)]. <i>Physics of Plasmas</i> , 2009, 16, 054706.	1.9	1
68	The Theoretical Simulation of Fabry-Perot Interferometer with a Cold Collisionless Plasma Layer. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009, 30, 969-981.	2.2	6
69	Binodal curve measurements for (water+propionic acid+dichloromethane) ternary system by cloud point method. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 859-863.	2.0	24
70	Effects of external electromagnetic field on binodal curve of (water+propionic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (acid+dichl	2.0	2
71	A computer tracking system of solar dish with two-axis degree freedoms based on picture processing of bar shadow. <i>Renewable Energy</i> , 2009, 34, 1114-1118.	8.9	63
72	The single wall carbon nanotube waveguides and excitation of their $f + i\epsilon$ plasmons by electron beam. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
73	The effects of thermal velocities on frequency spectra of an unbounded collisionless degenerate plasma with two different types of equilibrium distribution functions. <i>Physica Scripta</i> , 2007, 77, 015504.	2.5	2
74	THE THEORETICAL INVESTIGATION OF THz ELECTROMAGNETIC WAVES IN A ROD DEGENERATE PLASMA-WAVEGUIDE. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007, 27, 1469-1495.	0.6	15
75	Excitation of THz symmetric TM-modes in a cylindrical metallic waveguide with an axial magnetized degenerate plasma rod by an electron beam. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 370, 319-330.	2.1	18
76	Azimuthal electromagnetic surface waves in a rod dielectric magnetized plasma waveguide and their excitation by an annular relativistic rotating electron beam. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, 1105-1123.	2.1	22
77	The theoretical simulation of magnetized electron beam effects on radially polarized of an annular cylindrical piezoelectric crystal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 358, 149-153.	2.1	2
78	Spatial growth rate and field profiles of symmetric mode in a rod dielectric Čerenkov maser with a magnetized plasma column. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 336, 477-489.	2.1	19
79	Excitation of electromagnetic surface waves by an annular electron beam in a plasma waveguide with a dielectric rod and a magnetized plasma column. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, 37-47.	2.1	21
80	Time growth rate of symmetric TM mode of a rod dielectric Čerenkov plasma maser. <i>Physics of Plasmas</i> , 2005, 12, 033104.	1.9	18
81	Dispersion relation of azimuthal electromagnetic surface waves on a magnetized plasma column in a dielectric lined slow-wave waveguide. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, 507-518.	2.1	16
82	Azimuthal electromagnetic surface waves on an annular magnetized plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 318, 415-424.	2.1	17
83	Ion-acoustic modulation of a magnetized plasma jet by surface waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 314, 456-463.	2.1	1
84	Excitation of nonreciprocal electromagnetic surface waves in semibounded magnetized plasmas by an electron beam. <i>Physics of Plasmas</i> , 2003, 10, 4622-4626.	1.9	31
85	Filamentation of a subsonic plasma jet by surface waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 300, 432-436.	2.1	5
86	The role of adiabatic and non-adiabatic phenomena in passing waves from a semi-bounded loss-free waveguide to semi-bounded plasma waveguide. <i>Indian Journal of Physics</i> , 0, , 1.	1.8	0