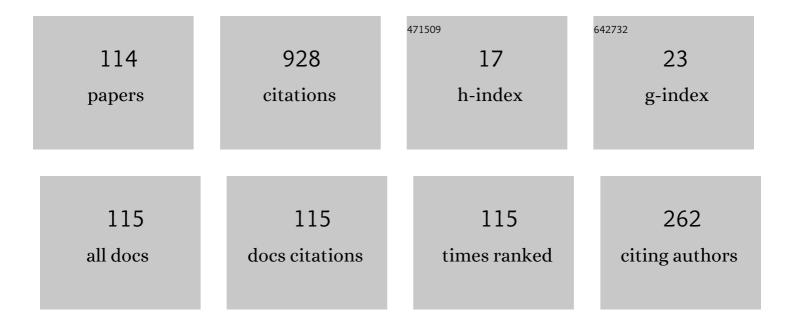
Hasan Mehdian

List of Publications by Year in descending order

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Ηλέλη Μεήσιλη

#	Article	IF	CITATIONS
1	A van der Waals force-based adhesion study of stem cells exposed to cold atmospheric plasma jets. Scientific Reports, 2022, 12, .	3.3	2
2	Nonlinear simulation of TM mode free electron laser in rectangular waveguide with ion-channel. Laser Physics, 2021, 31, 035002.	1.2	0
3	Plasmaâ€activated medium induces apoptosis in chemotherapyâ€resistant ovarian cancer cells: High selectivity and synergy with carboplatin. Plasma Processes and Polymers, 2021, 18, 2100074.	3.0	21
4	Improving Cold Atmospheric Pressure Plasma Efficacy on Breast Cancer Cells Control-Ability and Mortality Using Vitamin C and Static Magnetic Field. Plasma Chemistry and Plasma Processing, 2020, 40, 511-526.	2.4	5
5	Local stability analysis of interface region of astrophysical viscous shear flows with a gradual velocity gradient. Advances in Space Research, 2020, 65, 1607-1614.	2.6	0
6	Morphological risk assessment of cold atmospheric plasma-based therapy: bone marrow mesenchymal stem cells in treatment zone proximity. Journal Physics D: Applied Physics, 2019, 52, 495203.	2.8	4
7	Coupling Instability of a Warm Relativistic Electron Beam with Ion-Channel Guiding. Communications in Theoretical Physics, 2019, 71, 1236.	2.5	0
8	Collisional absorption of the optical vortex beam in plasma. Optics and Laser Technology, 2019, 117, 165-168.	4.6	8
9	The propagation of ion-acoustic waves carrying orbital angular momentum in the electron–positron–ion plasmas. Indian Journal of Physics, 2018, 92, 1169-1176.	1.8	2
10	Enhancement of output power in a two-section periodical circular waveguide structure using magnetized plasma and a relativistic electron beam. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	0
11	Dispersion and growth characteristics in a circular waveguide loaded with alternate metal and dielectric discs. AIP Advances, 2018, 8, 015322.	1.3	2
12	Effects of magnetic wiggler field and chirped laser pulse on the wakefield amplitude and electron energy gain in a wiggler-assisted laser wakefield accelerator. European Physical Journal Plus, 2018, 133, 1.	2.6	9
13	Nonlinear simulation of free electron laser in a rectangular waveguide and ion-channel guiding. Physics of Plasmas, 2018, 25, 123108.	1.9	4
14	Twisted beam shaping by plasma photonic crystal. Journal of Applied Physics, 2018, 124, .	2.5	10
15	Numerical Study of Practical Surface Eigenmodes in a New Applicable Nested Design of Plasma Antenna. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1266-1270.	4.0	3
16	Laser-driven electron acceleration in hydrogen pair-ion plasma containing electron impurities. Laser and Particle Beams, 2018, 36, 203-209.	1.0	7
17	Dispersion properties of plasma cladded annular optical fiber. Physics of Plasmas, 2018, 25, .	1.9	1
18	How a relativistic electron beam-ion channel system can act as a polarizer. Applied Optics, 2018, 57, 7030.	1.8	0

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19	Current filamentation instability of warm diluted electron beam in collisional weakly ionized plasma system. Physics of Plasmas, 2017, 24, 032120.	1.9	0
20	Analysis of nested design of plasma antenna based on the azimuthally symmetric surface waves: UHF and SHF bands. Physics of Plasmas, 2017, 24, .	1.9	7
21	The self-electric field effect on the MRI instability of magnetized rotational flows: Cylindrical model. Europhysics Letters, 2017, 119, 39001.	2.0	0
22	Transition between laser absorption dominated regimes in carbon-based plasma. AIP Advances, 2017, 7, 095106.	1.3	5
23	Twisted modes instability of electron–positron shell interacted with moving ion background. Laser and Particle Beams, 2017, 35, 543-550.	1.0	4
24	The polarization evolution of electromagnetic waves as a diagnostic method for a motional plasma. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	2
25	Enhancement of intensity in a periodically layered metal-dielectric waveguide with magnetized plasma. Physics of Plasmas, 2017, 24, 073103.	1.9	3
26	Magnetorotational instability of weakly ionized and magnetized electron-positron-ion plasma. Physics of Plasmas, 2016, 23, 102903.	1.9	4
27	Nonlinear absorption of short intense laser pulse in multispecies plasma. Physics of Plasmas, 2016, 23, .	1.9	8
28	Magnetic measurement based methods in determination of plasma equilibrium parameters in Damavand tokamak. Journal of Instrumentation, 2016, 11, P06015-P06015.	1.2	3
29	Kinetic description of a free electron laser with an electromagnetic-wave wiggler and ion-channel guiding by using the Einstein coefficient technique. Laser Physics, 2016, 26, 045003.	1.2	Ο
30	Tunable Faraday effect in one-dimensional photonic crystals doped by plasma. Optik, 2016, 127, 3895-3898.	2.9	3
31	Enhancement of terahertz radiation power from a prebunched electron beam using helical wiggler and ion-channel guiding. Physics of Plasmas, 2015, 22, .	1.9	4
32	The general dispersion relation of induced streaming instabilities in quantum outflow systems. AIP Advances, 2015, 5, 117236.	1.3	2
33	A relativistic PIC model of nonlinear laser absorption in a finite-size plasma with arbitrary mass and density ratios. Laser and Particle Beams, 2015, 33, 647-654.	1.0	4
34	Kinetic (particle-in-cell) simulation of nonlinear laser absorption in a finite-size plasma with a background inhomogeneous magnetic field. Physics of Plasmas, 2015, 22, 063102.	1.9	14
35	INDUCED MAXIMUM MAGNETIC FIELD IN COSMIC OUTFLOW SYSTEM BY A RELATIVISTIC CURRENT FILAMENTATION INSTABILITY: EXACT ANALYTICAL MODEL. Astrophysical Journal, 2015, 801, 89.	4.5	5
36	Optical and magneto-optical properties of plasma-magnetic metamaterials. Journal Physics D: Applied Physics, 2015, 48, 305101.	2.8	27

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37	Semi-analytic approach for determination of poloidal beta limits using plasma internal inductance in Damavand tokamak. Physica Scripta, 2015, 90, 105604.	2.5	3
38	Maximum magnetic field in cosmic outflows systems. , 2015, , .		0
39	Numerical study of electron acceleration by plasma wave in an ion channel under obliquely applied magnetic field. Optik, 2015, 126, 3299-3302.	2.9	4
40	Magneto-optical properties of one-dimensional conjugated photonic crystal heterojunctions containing plasma layers. Applied Optics, 2015, 54, 7949.	2.1	14
41	The effect of magnetic field on bistability in 1D photonic crystal doped by magnetized plasma and coupled nonlinear defects. Physics of Plasmas, 2014, 21, .	1.9	37
42	Inertial confinement fusion based on the ion-bubble trigger. Physics of Plasmas, 2014, 21, 104503.	1.9	12
43	A spatiotemporal study of the relativistic nonlinear effects on laser absorption by a finite-size magneto plasma. European Physical Journal D, 2014, 68, 1.	1.3	8
44	Filamentation instability of electron/ion beams in magnetized plasma waveguide. Journal of Plasma Physics, 2014, 80, 81-87.	2.1	2
45	Spatiotemporal evolution of a thin plasma foil with Kappa distribution. Laser and Particle Beams, 2014, 32, 523-529.	1.0	4
46	The effect of plasma background on the instability of two non-parallel quantum plasma shells in whole K space. Physics of Plasmas, 2014, 21, 072106.	1.9	5
47	Linear theory of quantum two-stream instability in a magnetized plasma with a transverse wiggler magnetic field. Laser and Particle Beams, 2014, 32, 353-358.	1.0	6
48	Filamentation instability of a laser beam in an inhomogeneous plasma in an arbitrarily oriented external magnetic field. Journal of Plasma Physics, 2013, 79, 921-926.	2.1	0
49	Dispersion relation and growth rate for a corrugated channel free-electron laser with a helical wiggler pump. Chinese Physics B, 2013, 22, 075205.	1.4	1
50	Free-electron laser with a plasma wave wiggler propagating through a magnetized plasma channel. Laser Physics, 2013, 23, 085005.	1.2	7
51	The instability of two non-parallel plasma shells in quantum plasma. Astrophysics and Space Science, 2013, 346, 421-430.	1.4	7
52	Quantum instability of two non-parallel flows: Parallel wave propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2083-2088.	2.1	6
53	Kinetic description of a wiggler-pumped ion-channel free-electron laser by applying the Einstein coefficient technique. Journal of Plasma Physics, 2013, 79, 853-857.	2.1	2
54	Analysis of plasma-magnetic photonic crystal with a tunable band gap. Physics of Plasmas, 2013, 20, .	1.9	31

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55	Investigation of the electron trajectories and gain regimes of the whistler pumped free-electron laser. Physics of Plasmas, 2013, 20, 043106.	1.9	10
56	The Solution of the Spherical Raman–Nath Equation for Free-Electron Laser in the Presence of Ion-Channel Guiding. Journal of Fusion Energy, 2012, 31, 463-466.	1.2	1
57	Linear theory of magnetized ion-channel free-electron laser. Physics of Plasmas, 2012, 19, 023108.	1.9	11
58	Quantum statistical properties of free-electron laser with ion-channel guiding. Journal of Plasma Physics, 2012, 78, 537-544.	2.1	5
59	Filamentation instability of quantum magnetized plasma in the presence of an external periodic magnetic field. Physics of Plasmas, 2012, 19, .	1.9	9
60	Controlling chaotic behavior of the equilibrium electrons by simultaneous using of two guiding fields in a free-electron laser with an electromagnetic-wave wiggler. Physics of Plasmas, 2011, 18, .	1.9	8
61	Kinetic description of self-field effects on laser and betatron emission in wiggler-pumped ion-channel free electron lasers. Physica Scripta, 2011, 83, 035401.	2.5	3
62	Effects of self-fields on electron trajectory and gain in two-stream electromagnetically pumped free-electron laser with ion channel guiding. Chinese Physics B, 2011, 20, 074101.	1.4	4
63	High-Power Microwave Generation by a Periodic Focusing Quadrupole Transport System. IEEE Transactions on Plasma Science, 2011, 39, 761-768.	1.3	4
64	Self-field effects on small-signal gain in two-stage free-electron lasers. Pramana - Journal of Physics, 2011, 76, 489-500.	1.8	0
65	Gain calculation of a free-electron laser operating with a non-uniform ion-channel guide. Chinese Physics B, 2011, 20, 094103.	1.4	6
66	Comparison of self-fields effects in two-stream electromagnetically pumped FEL with ion-channel guiding and axial magnetic field. Journal of Plasma Physics, 2011, 77, 765-776.	2.1	3
67	Investigation of betatron instability in a wiggler pumped ion-channel free electron laser. Plasma Physics and Controlled Fusion, 2011, 53, 105010.	2.1	4
68	Effect of the Electron-Beam Self-Fields on Gain in an Optical Wiggler Pumped Free-Electron Laser. Contributions To Plasma Physics, 2010, 50, 156-164.	1.1	5
69	Free-electron laser harmonic generation in an electromagnetic-wave wiggler and ion channel guiding. Physics of Plasmas, 2010, 17, .	1.9	18
70	Gain enhancement in two-stream electromagnetically pumped free electron laser with ion-channel guiding. Canadian Journal of Physics, 2010, 88, 15-28.	1.1	2
71	The effects of self-fields on the electron trajectory and gain in a two-stream electromagnetically pumped free-electron laser with axial guiding field. Chinese Physics B, 2010, 19, 014214-5.	1.4	8
72	Generation of stimulated emission from a relativistic beam by magnetized dusty plasma crystals (DPCs). Plasma Physics and Controlled Fusion, 2010, 52, 055005.	2.1	13

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73	Electron trajectory and growth rate in two-stream electromagnetically pumped free-electron lasers with ion-channel guiding. Physica Scripta, 2009, 80, 045401.	2.5	2
74	Free-electron lasers with magnetized ion-wiggler. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 471-475.	1.6	6
75	Effects of ion-channel guiding on the saturation mechanism of a single-pass free-electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 338-342.	1.6	23
76	Dispersion relation and growth rate in electromagnetically pumped free-electron lasers with ion-channel guiding. Physics of Plasmas, 2008, 15, 073103.	1.9	13
77	Steady-state electron trajectories and growth rate in electromagnetically pumped free-electron laser with specific nonuniform magnetic field. Physics of Plasmas, 2008, 15, 073102.	1.9	19
78	A comparison between electron orbits for both an axial magnetic field and an ion-channel guiding in a FEL with an electromagnetic wave wiggler. Journal of Plasma Physics, 2008, 74, 187-196.	2.1	4
79	Two-stream instability in free electron lasers with a planar wiggler and an axial guide magnetic field. Physics of Plasmas, 2008, 15, .	1.9	22
80	Self-fields in a free-electron laser with electromagnetic-wave wiggler and ion-channel guiding. Physics of Plasmas, 2008, 15, 123101.	1.9	18
81	Dispersion relation and growth in a two-stream free electron laser with helical wiggler and ion channel guiding. Physics of Plasmas, 2008, 15, 013111.	1.9	22
82	Electron trajectory and growth rate in a two-stream electromagnetically pumped free electron laser and axial guide field. Physics of Plasmas, 2008, 15, 093103.	1.9	12
83	Dispersion relation and growth rate for a high gain ion-channel FEL with a helical wiggler pump. Plasma Physics and Controlled Fusion, 2007, 49, 69-84.	2.1	23
84	Dispersion relation for azimuthal electromagnetic surface waves on a magnetized annular plasma in a metal waveguide with coaxial anisotropic dielectric inner coating. Journal of Plasma Physics, 2007, 73, 839-855.	2.1	2
85	Kinetic description of a planar wiggler free electron laser with ion-channel guiding. Plasma Physics and Controlled Fusion, 2007, 49, 2051-2061.	2.1	3
86	Kinetic description of a wiggler pumped ion-channel free electron laser. Plasma Physics and Controlled Fusion, 2006, 48, 991-1003.	2.1	14
87	Chaotic Electron Trajectories in a Planar Wiggler Free-Electron Laser. Acta Physica Polonica A, 2006, 110, 459-470.	0.5	6
88	The Effect of Ion-Channel Guiding on the Chaotic Electron Trajectories in a Free Electron Laser. Acta Physica Polonica A, 2005, 107, 895-906.	0.5	2
89	Dispersion relation of azimuthal electromagnetic surface waves on a magnetized plasma column in a dielectric lined slow-wave waveguide. Plasma Physics and Controlled Fusion, 2004, 46, 507-518.	2.1	16
90	Electron trajectories in a free-electron laser with helical wiggler, ion-channel guiding, and parallelreversed axial magnetic field. Journal of Plasma Physics, 2004, 70, 9-24.	2.1	8

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91	Self-fields in a free-electron laser with helical wiggler and ion-channel guiding. Physics of Plasmas, 2003, 10, 905-907.	1.9	19
92	Dispersion relation and growth in a free-electron laser with planar wiggler and in-channel guiding. Physics of Plasmas, 2002, 9, 1010-1014.	1.9	30
93	Gain in a free-electron laser with planar wiggler and ion-channel guiding. Physics of Plasmas, 2002, 9, 670-677.	1.9	25
94	Gain equation for a free-electron laser with a helical wiggler and ion-channel guiding. Physical Review E, 2001, 65, 016501.	2.1	40
95	Electron trajectories in a free-electron laser with planar wiggler and ion-channel guiding. Physics of Plasmas, 2001, 8, 3776-3780.	1.9	21
96	Wiggler-field effects on the space-charge waves of a Raman free-electron laser. Physical Review E, 1999, 60, 2264-2271.	2.1	1
97	Space-charge waves in a coaxial plasma waveguide. Physics of Plasmas, 1998, 5, 273-278.	1.9	18
98	Effects of wiggler and axial guide fields on wave propagation in a free-electron laser. Physics of Plasmas, 1998, 5, 4079-4083.	1.9	9
99	Electrostatic beam modes in a free-electron laser with a coaxial wiggler. Physical Review E, 1998, 57, 2262-2266.	2.1	5
100	Space-charge waves in the wiggler field of a Raman free-electron laser. Physical Review E, 1998, 57, 7169-7175.	2.1	7
101	Free electron laser with longitudinal wiggler and finite magnetic field in a partially filled waveguide. Physics of Plasmas, 1996, 3, 1130-1136.	1.9	12
102	Excitation of a transverse magnetic waveguide mode near cutoff in a freeâ€electron laser. Physics of Plasmas, 1995, 2, 1311-1315.	1.9	6
103	Magnetic field effects in a free electron laser with longitudinal electric wiggler. Journal Physics D: Applied Physics, 1994, 27, 211-218.	2.8	7
104	Stimulated Raman scattering of anEHwaveguide mode near cyclotron resonance. Physical Review E, 1994, 49, 4739-4742.	2.1	4
105	Highâ€frequency waves in a plasma waveguide. Physics of Plasmas, 1994, 1, 3181-3188.	1.9	43
106	Relativistic free-electron generator of space-charge waves. Journal Physics D: Applied Physics, 1993, 26, 9-15.	2.8	3
107	Freeâ€electron laser with longitudinal wiggler in a waveguide partially filled with a relativistic electron beam. Journal of Applied Physics, 1991, 70, 517-519.	2.5	5
108	Wave generation in a waveguide partially filled with a relativistic electron beam. Journal Physics D: Applied Physics, 1990, 23, 125-128.	2.8	6

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109	Free electron laser with longitudinal electric wiggler. Journal Physics D: Applied Physics, 1990, 23, 1290-1297.	2.8	7
110	Lower-hybrid instability in current-carrying plasmas. Journal of Plasma Physics, 1982, 28, 527-537.	2.1	1
111	Effects of collisions on current-driven ion-electrostatic waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 86, 145-148.	2.1	1
112	Ionâ€electrostatic instabilities in currentâ€carrying magnetized plasmas. Journal of Applied Physics, 1981, 52, 6078-6083.	2.5	4
113	Resistive instabilities in current-carrying magnetized plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 80, 263-265.	2.1	2
114	Plasma inhomogeneity effects on particles energization by high-power laser pulse in a finite-size plasma. Waves in Random and Complex Media, 0, , 1-11.	2.7	1