

# Shahrooz Saviz

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

126  
citations

1478505

6  
h-index

1372567

10  
g-index

42  
all docs

42  
docs citations

42  
times ranked

130  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Formation of TiO <sub>2</sub> Nanoparticles Via Submerged Arc Discharge Technique: Synthesis, Characterization and Photocatalytic Properties. <i>Journal of Cluster Science</i> , 2010, 21, 753-766.	3.3	37
2	x-ray irradiation analysis based on wavelet transform in tokamak plasma. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 777-783.	1.0	12
3	Analysis of Axial Electric Field in Thermal Plasma-Loaded Helix Traveling-Wave Tube With Dielectric-Loaded Waveguide. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 917-923.	1.3	9
4	Gain in two stream free electron laser with planar wiggler and ion-channel guiding. <i>Physics of Plasmas</i> , 2012, 19, 023115.	1.9	7
5	Plasma Thermal Effect on the Growth Rate of the Helix Traveling Wave Tube. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2023-2029.	1.3	7
6	Self-consistent and complete field theory of relativistic travelling wave tube amplifier with plasma loaded tape helix. <i>Canadian Journal of Physics</i> , 2012, 90, 1237-1257.	1.1	6
7	In situ synthesise of ZnO nanoparticles on cotton fabric by laser ablation method; antibacterial activities. <i>Journal of the Textile Institute</i> , 0, , 1-11.	1.9	6
8	The effect of beam and plasma parameters on the four modes of plasma-loaded traveling-wave tube with tape helix. <i>Iranian Physical Journal</i> , 2014, 8, 1.	1.2	5
9	Plasma effect in tape helix traveling-wave tube. <i>Iranian Physical Journal</i> , 2014, 8, 1.	1.2	4
10	Cylindrical waveguide filled with radially inhomogeneous magnetized plasma as a microwave accelerating structure. <i>Physics of Plasmas</i> , 2018, 25, 013115.	1.9	4
11	Comparison of self-fields effects in two-stream electromagnetically pumped FEL with ion-channel guiding and axial magnetic field. <i>Journal of Plasma Physics</i> , 2011, 77, 765-776.	2.1	3
12	TiO <sub>2</sub> nanofibre-assisted photodecomposition of Rhodamine B from aqueous solution. <i>Journal of Experimental Nanoscience</i> , 2013, 8, 842-851.	2.4	3
13	Influence of the inlet gas velocity components on the survival of the vertex of gas in the plasma torch. <i>Journal of Theoretical and Applied Physics</i> , 2020, 14, 1-10.	1.4	3
14	Gain enhancement in two-stream electromagnetically pumped free electron laser with ion-channel guiding. <i>Canadian Journal of Physics</i> , 2010, 88, 15-28.	1.1	2
15	Dispersion relation and growth rate in two-stream thermal plasma-loaded free-electron laser with helical wiggler. <i>Iranian Physical Journal</i> , 2015, 9, 39-43.	1.2	2
16	Theory of Magnetron Amplifier in a Helix-Loaded Waveguide With the Inner Dielectric Material. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 1919-1925.	1.3	2
17	Plasma Effect on the Fast- and Mixed-Wave Modes of Gyrotron Devices. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 3833-3840.	1.3	2
18	The Effect of Ion-Channel Guiding on the Chaotic Electron Trajectories in a Free Electron Laser. <i>Acta Physica Polonica A</i> , 2005, 107, 895-906.	0.5	2

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19	Two-stream whistler-pumped free-electron laser. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	1
20	Magnetron Amplifier-Type Helix Loaded Waveguide Analysis Based on Dispersion Relation. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 3413-3418.	3.0	1
21	Plasma effects on the growth rate of a helix magnetron-type conducting cylinder. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	1
22	Dielectric-Loaded Plasma Filled Helix Traveling Wave Tube Analysis Based on the Linearized Field Theory. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 446-459.	3.7	1
23	Hybrid Mode in Traveling-Wave Tube With Partially Plasma-Loaded Helix and Hollow Electron Beam. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 1800-1814.	1.3	1
24	Medical equipment bio-capability processes using the atmospheric plasma-sprayed titanium coating. <i>Journal of Theoretical and Applied Physics</i> , 2018, 12, 1-6.	1.4	1
25	Comparison of measured pinch parameters versus pressure for SABALAN1 plasma focus facility against computed values using Lee model code. <i>AIP Advances</i> , 2018, 8, 075209.	1.3	1
26	Theoretical Analysis of the Hollow Electron Beam Interaction With Electromagnetic Waves in a Partially Thermal Plasma-Loaded Helix. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 1231-1242.	1.3	1
27	Influence of ions nonextensivity on the dynamics of dust acoustic double layers in a magnetized self-gravitating dusty plasma. <i>Waves in Random and Complex Media</i> , 0, , 1-16.	2.7	1
28	Fabrication of high-performance supercapacitors using carbon nanoparticles produced with thermal plasma technique. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	2.3	1
29	Study of physical properties of carbon nanotube thin films deposited by DC magnetron sputtering. <i>Journal of the Korean Physical Society</i> , 2014, 64, 46-52.	0.7	0
30	Theoretical investigations on the fast and mixed wave modes for plasma-filled gyrotrons. , 2015, , .		0
31	Dispersion relation and growth rate in thermal plasma-loaded traveling wave tube with corrugated waveguide hollow electron beam. <i>Iranian Physical Journal</i> , 2015, 9, 111-118.	1.2	0
32	Theoretical analysis of a thermal plasma-loaded relativistic traveling wave tube having corrugated slow wave structure with solid electron beam. <i>Iranian Physical Journal</i> , 2015, 9, 59-66.	1.2	0
33	The behavior of the electric field in X and O modes in traveling wave tubes filled with magnetized plasma. <i>Results in Physics</i> , 2016, 6, 683-689.	4.1	0
34	New Design and Simulation of Modified Helix Half-Ring Structure in TWTs Amplifier. <i>IEEE Transactions on Plasma Science</i> , 2024, , 1-6.	1.3	0
35	The new wave-ring helical (WRH) slow-wave structure for traveling wave tube amplifiers. <i>Journal of Theoretical and Applied Physics</i> , 2017, 11, 269-274.	1.4	0
36	Cutoff frequencies of accelerating modes propagation inside a cylindrical waveguide filled with radially inhomogeneous magnetized plasma. <i>Physics of Plasmas</i> , 2018, 25, 122105.	1.9	0

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37	Improvement of nonlinear effects and increasing the power gain in traveling wave tube by changing the helix pitch and injection process. Results in Physics, 2018, 9, 1635-1642.	4.1	0
38	Investigating variations of the electron beam voltage on the traveling wave tube output power in the different frequencies. Journal of Theoretical and Applied Physics, 2018, 12, 235-241.	1.4	0
39	Nonlinear study of injection process types into the traveling wave tube with hollow electron beam. Journal of Theoretical and Applied Physics, 2019, 13, 115-121.	1.4	0
40	MgO/MgAl <sub>2</sub> O <sub>4</sub> nanocomposites synthesis by plasma torch from aqueous solution of MgCl <sub>2</sub> and AlCl <sub>3</sub> salts and studying the effect of raw material concentration on the products. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	0