

# Yaduvendra Choyal

## List of Publications by Year in descending order

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26  
papers

99  
citations

1684188

5  
h-index

1372567

10  
g-index

26  
all docs

26  
docs citations

26  
times ranked

90  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear dispersion relation of backward-wave oscillators with finite-strength axial magnetic field. IEEE Transactions on Plasma Science, 2002, 30, 1134-1146.	1.3	28
2	Excitation of electromagnetic waves in a plasma-filled backward wave oscillator in the Ku region. Physics of Plasmas, 1998, 5, 2442-2446.	1.9	13
3	Excitation of electromagnetic waves in a relativistic backward wave oscillator with end reflectors. Physics of Plasmas, 1995, 2, 319-324.	1.9	12
4	Design of Input Coupler and Output Window for Ka-Band Gyro-TWT. Journal of Fusion Energy, 2013, 32, 570-574.	1.2	7
5	Analysis of Discharge Characteristics of Cold Atmospheric Pressure Plasma Jet. IEEE Transactions on Plasma Science, 2021, 49, 2799-2805.	1.3	6
6	Design of Single-Disk RF Window for High-Power Gyrotron. IEEE Transactions on Plasma Science, 2012, 40, 3052-3055.	1.3	5
7	Space charge electrostatic fields and focusing of a sheet electron beam with diffused edges. Laser and Particle Beams, 1999, 17, 1-13.	1.0	4
8	Development of a 300-kV Marx generator and its application to drive a relativistic electron beam. Sadhana - Academy Proceedings in Engineering Sciences, 2005, 30, 757-764.	1.3	4
9	Numerical investigation of space charge electric field for a sheet electron beam between two conducting planes. Pramana - Journal of Physics, 2002, 58, 67-77.	1.8	3
10	Development of a 2 MW relativistic backward wave oscillator. Pramana - Journal of Physics, 2008, 71, 1301-1310.	1.8	3
11	Design and Simulation of Lossy Interaction Structure for Ka-Band Gyro-TWT. IEEE Transactions on Plasma Science, 2013, 41, 2264-2268.	1.3	3
12	Proposal of a new principle of cyclotron emission from neutralized electron beams. Journal of Plasma Physics, 2007, 73, 523-541.	2.1	2
13	Analytical and numerical investigation of pulse-shape effect on the interaction of an ultrashort, intense, few-cycle laser pulse with a thin plasma layer. Laser and Particle Beams, 2011, 29, 45-54.	1.0	2
14	Effect of Thickness and Radial Position of Aperture in a Pole Piece in Focusing of Multibeam Electron Gun. IEEE Transactions on Plasma Science, 2012, 40, 1672-1677.	1.3	2
15	Linear theory of plasma filled backward wave oscillator. Pramana - Journal of Physics, 2001, 56, 625-633.	1.8	1
16	Dispersion relation for planar rippled wall backward wave oscillator driven by sheet electron beam. Physics of Plasmas, 2004, 11, 4414-4419.	1.9	1
17	High power microwave generation by relativistic backward wave oscillator. , 2008, , ,		1
18	Design of a Ka-band gyro-TWT amplifier for broadband operation. Physics of Plasmas, 2013, 20, 073110.	1.9	1

#	ARTICLE	IF	CITATIONS
19	Simultaneous estimation of plasma parameters from spectroscopic data of neutral helium using least square fitting of CR-model. Iranian Physical Journal, 2015, 9, 25-31.	1.2	1
20	Dispersion relation of a sheet beam driven backward wave oscillator. , 0, , .		0
21	The range of validity of the Rayleigh hypothesis. , 0, , .		0
22	Excitation of an Axisymmetric Arbitrary-Walled Periodic Slow-Wave Structure by an Electron Beam Confined by a Finite-Strength Magnetic Field. Electromagnetics, 2011, 31, 29-44.	0.7	0
23	Analytical and numerical investigation of the pulse-shape effect on the longitudinal electric field of a tightly focused ultrafast few-cycle $TM_{01}$ laser beam. Laser and Particle Beams, 2012, 30, 75-86.	1.0	0
24	Design of single disc RF window for 120 GHz, 1MW gyrotron. , 2012, , .		0
25	Electron gun design for multi-beam pulsed amplifier. , 2012, , .		0
26	Simulation of lossy interaction structure for Ka-band Gyro-TWT. , 2013, , .		0