Pradip K Jain

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2821580/publications.pdf

Version: 2024-02-01

193	1,292	394421	552781
papers	citations	19 h-index	26 g-index

194	194	194	449
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rigorous tape analysis of inhomogeneously-loaded helical slow-wave structures. IEEE Transactions on Electron Devices, 1997, 44, 1158-1168.	3.0	49
2	The inhomogeneous loading effects of practical dielectric supports for the helical slow-wave structure of a TWT. IEEE Transactions on Electron Devices, 1987, 34, 2643-2648.	3.0	48
3	Graphene pixel-based polarization-insensitive metasurface for almost perfect and wideband terahertz absorption. Journal of the Optical Society of America B: Optical Physics, 2019, 36, F84.	2.1	48
4	Broadbanding of a gyro-TWT by dielectric-loading through dispersion shaping. IEEE Transactions on Electron Devices, 1996, 43, 2290-2299.	3.0	40
5	Analysis of a tapered vane loaded broad-band gyro-TWT. IEEE Transactions on Plasma Science, 2001, 29, 439-444.	1.3	32
6	A Metasurface-Based, Ultrathin, Dual-Band, Linear-to-Circular, Reflective Polarization Converter: Easing uplinking and downlinking for wireless communication. IEEE Antennas and Propagation Magazine, 2021, 63, 100-110.	1.4	32
7	The effect of conductivity losses on propagation through the helical slow-wave structure of a traveling-wave tube. IEEE Transactions on Electron Devices, 1988, 35, 549-558.	3.0	29
8	The inhomogeneous dielectric loading effects of practical helix supports on the interaction impedance of the slow-wave structure of a TWT. IEEE Transactions on Electron Devices, 1992, 39, 727-733.	3.0	28
9	Nonresonant perturbation measurements on dispersion and interaction impedance characteristics of helical slow-wave structures. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1585-1593.	4.6	28
10	Effect of the finite thickness of the helix wire on the characteristics of the helical slow-wave structure of a traveling-wave tube. IEEE Transactions on Electron Devices, 1987, 34, 1209-1213.	3.0	27
11	Magnetically tunable metasurface comprising InAs and InSb pixels for absorbing terahertz radiation. Applied Optics, 2020, 59, 9673.	1.8	26
12	Analysis of a circular waveguide loaded with thick annular metal discs for wide-band gyro-TWTs. IEEE Transactions on Plasma Science, 2005, 33, 1358-1365.	1.3	25
13	Control of IM3 distortion in helix TWTs by harmonic injection-an Eulerian hydrodynamical study. IEEE Transactions on Electron Devices, 2001, 48, 62-67.	3.0	24
14	Tricontrollable pixelated metasurface for absorbing terahertz radiation. Applied Optics, 2019, 58, 9614.	1.8	24
15	Modelling of axially periodic circular waveguide with combined dielectric and metal loading. Journal Physics D: Applied Physics, 2005, 38, 3523-3529.	2.8	23
16	Computational Study of a Compact and High Sensitive Photonic Crystal for Cancer Cells Detection. IEEE Sensors Journal, 2022, 22, 3298-3305.	4.7	23
17	Analysis of an azimuthally periodic vane-loaded cylindrical waveguide for a gyro-travelling-wave tube. International Journal of Electronics, 1999, 86, 1463-1479.	1.4	22
18	Two-stage dielectric-loading for broadbanding a gyro-TWT. IEEE Electron Device Letters, 1996, 17, 303-305.	3.9	21

#	Article	IF	Citations
19	ANALYSIS OF A COAXIAL WAVEGUIDE CORRUGATED WITH WEDGE-SHAPED RADIAL VANES CONSIDERING AZIMUTHAL HARMONIC EFFECTS. Progress in Electromagnetics Research, 2004, 47, 297-312.	4.4	21
20	Analytical Approaches to a Disc-Loaded Cylindrical Waveguide for Potential Application in Wide-band Gyro-TWTs. IEEE Transactions on Plasma Science, 2004, 32, 2144-2151.	1.3	21
21	Design and Simulation Study of the HPM Oscillatorâ€"Reltron. IEEE Transactions on Plasma Science, 2016, 44, 743-748.	1.3	21
22	Nonlinear Eulerian hydrodynamical analysis of helix traveling-wave tubes. IEEE Transactions on Electron Devices, 1998, 45, 2055-2062.	3.0	19
23	Nonlinear Eulerian hydrodynamical analysis of helix traveling-wave tubes for harmonic generation and its control. IEEE Transactions on Electron Devices, 1999, 46, 420-426.	3.0	18
24	Design of 42GHz gyrotron for Indian fusion tokamak system. Fusion Engineering and Design, 2013, 88, 2898-2906.	1.9	18
25	Tricontrollable pixelated metasurface for stopband for terahertz radiation. Journal of Electromagnetic Waves and Applications, 2020, 34, 2065-2078.	1.6	18
26	RF Behavior of a 200-kW CW Gyrotron. IEEE Transactions on Plasma Science, 2008, 36, 631-636.	1.3	16
27	Design analysis and simulation study of an efficiency enhanced L-band MILO. Physics of Plasmas, 2017, 24, .	1.9	16
28	MULTIMODE BEHAVIOR OF A 42GHZ, 200KW GYROTRON. Progress in Electromagnetics Research B, 2012, 42, 75-91.	1.0	15
29	Design Expressions for the Magnetically Insulated Line Oscillator. IEEE Transactions on Plasma Science, 2013, 41, 1549-1556.	1.3	15
30	Hybrid-mode helix-loading effects on gyro-travelling-wave tubes. International Journal of Electronics, 1997, 82, 663-676.	1.4	14
31	Analysis of a corrugated coaxial waveguide resonator for mode rarefaction in a gyrotron. IEEE Transactions on Plasma Science, 2005, 33, 1024-1030.	1.3	14
32	Electromagnetic Analysis of a Disk-Loaded Coaxial Waveguiding Structure for MILO. IEEE Transactions on Plasma Science, 2012, 40, 1032-1041.	1.3	14
33	Study of Output Performance of Partially Dielectric Loaded A6 Relativistic Magnetron. IEEE Transactions on Plasma Science, 2012, 40, 1070-1074.	1.3	14
34	A theory of the attenuator-coated helical slow-wave structure of a traveling-wave tube. IEEE Transactions on Electron Devices, 1988, 35, 1750-1757.	3.0	13
35	Pixelated metasurfaces for linear-polarization conversion and absorption. Journal of Electromagnetic Waves and Applications, 2022, 36, 1008-1019.	1.6	13
36	Eulerian analysis for harmonic generation and its control in a helix travelling-wave tube. International Journal of Electronics, 1998, 85, 377-395.	1.4	12

#	Article	IF	Citations
37	Analysis of a Vane-Loaded Gyro-TWT for the Gain-Frequency Response. IEEE Transactions on Plasma Science, 2004, 32, 2130-2138.	1.3	12
38	Control of the gain-frequency response of a vane-loaded gyro-TWT by beam and magnetic field parameters. Microwave and Optical Technology Letters, 2000, 24, 140-145.	1.4	11
39	Analysis of a Disc-Loaded Circular Waveguide for Interaction Impedance of a Gyrotron Amplifier. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 1093-1110.	0.6	11
40	Investigation of a Low-Impedance Reltron as a Gigawatt HPM Source. IEEE Transactions on Electron Devices, 2019, 66, 1950-1953.	3.0	11
41	Analytical Exploration of New Tapered-Geometry Dielectric- Supported Helix Slow-Wave Structures for Broadband TWT's. Progress in Electromagnetics Research, 1997, 15, 63-85.	4.4	11
42	FDTD ANALYSIS OF THE DISPERSION CHARACTERISTICS OF THE METAL PBG STRUCTURES. Progress in Electromagnetics Research B, 2012, 39, 71-88.	1.0	10
43	Information carried by a surface-plasmon-polariton wave across a gap. Journal of Applied Physics, 2018, 124, .	2.5	10
44	Design and Simulation of the Thermionic Emission-Based Reltron Oscillator. IEEE Transactions on Plasma Science, 2020, 48, 438-445.	1.3	10
45	Simplified tape model of arbitrarily-loaded helical slow-wave structures of a travelling-wave tube. IEE Proceedings H: Microwaves, Antennas and Propagation, 1992, 139, 347.	0.2	9
46	Modified field analysis of inhomogeneously loaded helical slow-wave structures for TWTs. International Journal of Electronics, 1996, 81, 101-112.	1.4	9
47	Beam-wave interaction analysis of a magnetically insulated line oscillator. Physics of Plasmas, 2012, 19, .	1.9	9
48	Oscillation Condition and Efficiency Analysis of the Reltron. IEEE Transactions on Plasma Science, 2016, 44, 1056-1062.	1.3	9
49	An Ultra-thin Wideband Linear to Circular Polarization Converter using Metasurface. , 2018, , .		9
50	Fast-Wave Analysis of an Inhomogeneously- Loaded Helix Enclosed in a Cylindrical Waveguide. Progress in Electromagnetics Research, 1998, 18, 19-43.	4.4	8
51	Analysis of a tapered disc-loaded waveguide for a wideband gyro-TWT. IEEE Transactions on Plasma Science, 2006, 34, 541-546.	1.3	8
52	Exploration of a double-tapered disc-loaded circular waveguide for a wideband gyro-TWT. IEEE Electron Device Letters, 2006, 27, 194-197.	3.9	8
53	Study of virtual cathodes formation during beam-wave interaction in the reltron oscillator. Physics of Plasmas, 2017, 24, .	1.9	8
54	Advances and present trends in magnetically insulated line oscillator. Journal of Electromagnetic Waves and Applications, 2017, 31, 1864-1874.	1.6	8

#	Article	IF	Citations
55	Amplification in Gyro-Travelling-Wave Tubesâ€"Dispersion Relation and Gain-Bandwidth Characteristics. IETE Technical Review (Institution of Electronics and Telecommunication Engineers,) Tj ETQq1 1 0.784314 rgBT /Over		
56	Third-order saturation effects in a helix traveling-wave tube under Eulerian approximations. Microwave and Optical Technology Letters, 1997, 16, 345-349.	1.4	7
57	Electromagnetic analysis of the HPM oscillatorâ€"Reltron. Physics of Plasmas, 2016, 23, 093118.	1.9	7
58	Circular sectoral waveguideTM01toTE11mode converter. Microwave and Optical Technology Letters, 2019, 61, 1697-1701.	1.4	7
59	Analytical exploration of new tapered-geometry dielectric-supported helix slow-wave structures for broadband TWTs - Summary. Journal of Electromagnetic Waves and Applications, 1996, 10, 1217-1222.	1.6	6
60	Space-Harmonic Effects in Helical Slow-Wave Structure - an Equivalent Circuit Analysis - Abstract. Journal of Electromagnetic Waves and Applications, 2000, 14, 1083-1085.	1.6	6
61	Cold characterization of cylindrical open resonator for gyrotron. Infrared Physics and Technology, 2011, 54, 337-342.	2.9	6
62	Three-Dimensional Particle-in-Cell Simulation of Fast Oscillation Startup and Efficiency Improvement in a Relativistic Magnetron With Electric Priming. IEEE Transactions on Plasma Science, 2012, 40, 2686-2692.	1.3	6
63	Design Methodology and Beamâ€"Wave Interaction Study of a Second-Harmonic D -Band Gyroklystron Amplifier. IEEE Transactions on Plasma Science, 2016, 44, 2844-2851.	1.3	6
64	Equivalent Circuit Analysis of the Disk-Loaded Coaxial Structure for MILO. IEEE Transactions on Plasma Science, 2016, 44, 157-164.	1.3	6
65	PIC Simulation Study of the Formation Mechanism of Periodic Virtual Cathodes in the Reltron. IEEE Transactions on Plasma Science, 2018, 46, 518-523.	1.3	6
66	Information Transfer by Near-Infrared Surface-Plasmon-Polariton Waves on Silver/Silicon Interfaces. Scientific Reports, 2019, 9, 12095.	3.3	6
67	Toward Information Transfer Around a Concave Corner by a Surface-Plasmon-Polariton Wave. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	6
68	Graphene-sandwich metasurface as a frequency shifter, switch, and isolator at terahertz frequencies. Optical Engineering, 2020, 59, .	1.0	6
69	Axially Partitioned Dual Band Magnetically Insulated Line Oscillator. IEEE Transactions on Plasma Science, 2022, 50, 1198-1205.	1.3	6
70	Harmonic injection effects in backed-off helix travelling-wave tubes. A study by Eulerian analysis. International Journal of Electronics, 2000, 87, 89-97.	1.4	5
71	Space-Harmonic Effects in Helical Slow-Wave Structure --- an Equivalent Circuit Analysis. Progress in Electromagnetics Research, 2001, 30, 85-104.	4.4	5
72	A SIMPLE ANALYSIS OF HELICAL SLOW-WAVE STRUCTURE LOADED BY DIELECTRIC EMBEDDED METAL SEGMENTS FOR WIDEBAND TRAVELING-WAVE TUBES. Progress in Electromagnetics Research B, 2010, 20, 303-320.	1.0	5

#	Article	IF	Citations
73	Design and analysis of metallic photonic band gap cavity for a Gyrotron. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2012, 11, 242-251.	0.7	5
74	A Triode-Type Magnetron Injection Gun for a Dual Frequency Regime Gyrotron Operating at 42/84 GHz. IEEE Transactions on Plasma Science, 2013, 41, 3115-3121.	1.3	5
75	PIC simulation study of a 35 GHz, 200 kW Gyroklystron. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2013, 12, 353-362.	0.7	5
76	Design and simulation of a gyroklystron amplifier. Physics of Plasmas, 2015, 22, 033111.	1.9	5
77	MILO Performance Improvement Studyâ€"An Equivalent Circuit Approach. IEEE Transactions on Plasma Science, 2019, 47, 4642-4649.	1.3	5
78	Two-stage vane loading of gyro-TWTs for high gains and bandwidths. Microwave and Optical Technology Letters, 2000, 27, 210-213.	1.4	4
79	Analysis of a large-orbit gyrotron in a coaxial waveguide under assistant background fields. IEEE Transactions on Electron Devices, 2000, 47, 634-642.	3.0	4
80	Relativistic Magnetron Priming by Loading the Resonators Through Dielectric and Metal Rods. IEEE Transactions on Plasma Science, 2013, 41, 2987-2991.	1.3	4
81	Analysis and PIC simulation of a Gyrotron travelling wave tube amplifier. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2013, 12, 307-324.	0.7	4
82	Effects of electron beam parameters and velocity spread on radio frequency output of a photonic band gap cavity gyrotron oscillator. Physics of Plasmas, 2015, 22, 093102.	1.9	4
83	Electromagnetic simulation and experimental characterization of RF interaction structure of an S-band magnetically insulated line oscillator. Journal of Electromagnetic Waves and Applications, 2017, 31, 375-382.	1.6	4
84	Electron Beam Misalignment Study of MIG for 42â€†GHz, 200 kW Gyrotron. Frequenz, 2017, 71, .	0.9	4
85	Through the Wall Human Signature Detection using Principle Component Analysis (PCA). , 2018, , .		4
86	Graphene pixel-based polarization-insensitive metasurface for almost perfect and wideband terahertz absorption: erratum. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1914.	2.1	4
87	Evaluation of Pierce's small-signal parameters of helix, travelling-wave tubes for gain calculation. Journal Physics D: Applied Physics, 1992, 25, 542-547.	2.8	3
88	Role of Helix Thickness in the Field Analysis and Characterisation of the Slow-Wave Structure of a Broadband TWT. IETE Technical Review (Institution of Electronics and Telecommunication Engineers,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	3
89	Nonlinear Eulerian Analysis of Harmonic Generation in Traveling-Wave Tubes. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 483-490.	0.6	3
90	Characterisation of resonant structure of relativistic magnetron. IET Microwaves, Antennas and Propagation, 2012, 6, 841.	1.4	3

#	Article	IF	Citations
91	Design and Simulation of Lossy Interaction Structure for Ka-Band Gyro-TWT. IEEE Transactions on Plasma Science, 2013, 41, 2264-2268.	1.3	3
92	Beam-wave interaction behavior of a 35â€‰GHz metal PBG cavity gyrotron. Physics of Plasmas, 2014, 21, 093101.	1.9	3
93	Performance Improvement Study of Tapered Magnetically Insulated Line Oscillator Through Impedance Matching. IEEE Transactions on Plasma Science, 2014, 42, 2186-2192.	1.3	3
94	Time-dependent, multimode interaction analysis of the gyroklystron amplifier. Physics of Plasmas, 2016, 23, 083124.	1.9	3
95	Design and Stability Studies of Second-Harmonic Gyro-TWT Amplifier Using Wedge-Shaped Lossy Ceramic Rod-Loaded Mode Selective RF Interaction Circuit. IEEE Transactions on Plasma Science, 2016, 44, 2340-2347.	1.3	3
96	Gyro-TWT Using a Metal PBG Waveguide as Its RF Circuitâ€”Part I: Analysis and Design. IEEE Transactions on Electron Devices, 2016, 63, 2118-2124.	3.0	3
97	Design of 180nm CMOS linear temperature sensor. , 2017, , .		3
98	Experimental investigation and design of sectoral waveguide TM₀₁ to TE₁₁ mode converter. Journal of Microwave Power and Electromagnetic Energy, 2019, 53, 276-295.	0.8	3
99	Implementation of a simple stepped frequency continuous wave target localization system comprising two antennas based on common region of sensing. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21795.	1.2	3
100	A novel application of artificial neural network for recognition of target behind the wall. Microwave and Optical Technology Letters, 2020, 62, 152-167.	1.4	3
101	Analysis of Azimuthal Partition Periodic Disk-Loaded Coaxial Structure for Bifrequency MILO Using Equivalent Circuit Approach. IEEE Transactions on Plasma Science, 2020, 48, 3030-3039.	1.3	3
102	Electromagnetic analysis for the side-coupled cavity-type interaction structure for the linear accelerators. Journal of Electromagnetic Waves and Applications, 2020, 34, 524-538.	1.6	3
103	Analytical Approaches to the Study of Helical Slow-Wave Structures for Broadband TWTs. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 1993, 10, 369-378.	3.2	2
104	Second-Order Nonlinear Eulerian Analysis of a Travelling-Wave Tube Amplifier. IETE Journal of Research, 1999, 45, 39-48.	2.6	2
105	A heuristic analysis for an inhomogeneously loaded tape helix used in a practical travelling wave tube. International Journal of Electronics, 2001, 88, 197-213.	1.4	2
106	Parameters to Define the Electron Beam Trajectory of a Double-Tapered Disc-Loaded Wideband Gyro-TWT in Profiled Magnetic Field. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 28, 443-449.	0.6	2
107	Effect of inhomogeneous dispersion shaping of a helical SWS on the backward-wave oscillation criterion. , 2009, , .		2
108	14.5: PIC simulation of a gyrotron-traveling-wave tube amplifier. , 2010, , .		2

#	Article	IF	Citations
109	Design of CMOS based ultra wideband low noise amplifier using active shunt feedback technique. , 2011, , .		2
110	Magnetically Insulated Line Oscillator (MILO) Performance Study and its Parameter Optimization. IEEE Transactions on Plasma Science, 2013, 41, 2532-2538.	1.3	2
111	Design and simulation of metal PBG waveguide mode launcher. , 2014, , .		2
112	Nonlinear Investigation and 3-D Particle Simulation of Second-Harmonic Gyro-TWT With a Mode Selective Circuit. IEEE Transactions on Electron Devices, 2015, 62, 1641-1647.	3.0	2
113	A compartive study of SVD and ICA for target detection in through-the-wall radar images. , 2016, , .		2
114	Microâ€Dopplerclassification of human movements using spectrogram spatial features and support vector machine. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22264.	1.2	2
115	Design, Analysis, and Simulation Studies of TE_{10,4}Mode, 100-kWW-Band Gyrotron Oscillator. IEEE Transactions on Plasma Science, 2021, 49, 1794-1803.	1.3	2
116	Efficiency enhancement of the reltron oscillator using four-grid asymmetrical RF interaction cavity. Journal of Electromagnetic Waves and Applications, 2022, 36, 1957-1967.	1.6	2
117	A Novel Technique for Contrast Target Detection in Through-the-Wall Radar Images. Journal of Electromagnetic Engineering and Science, 0, , .	1.8	2
118	Pixelated bicontrollable metasurface absorber tunable in complete X band. Journal of Electromagnetic Waves and Applications, 2022, 36, 2505-2518.	1.6	2
119	A Review on Some Aspects of a Gyro-TWT. IETE Journal of Research, 1994, 40, 3-9.	2.6	1
120	Analysis of an anisotropically loaded helix in the fast-wave regime for gyro-traveling-wave amplifiers. Microwave and Optical Technology Letters, 1997, 14, 52-56.	1.4	1
121	Nonresonant perturbation measurement on dispersion characteristics of a fast-wave cylindrical waveguide. Microwave and Optical Technology Letters, 1997, 15, 216-219.	1.4	1
122	Fast-Wave Analysis of an Inhomogeneously-Loaded Helix Enclosed in a Cylindrical Waveguide. Journal of Electromagnetic Waves and Applications, 1998, 12, 191-198.	1.6	1
123	A simple Eulerian analysis of IM3 distortion in helix traveling-wave tubes. Microwave and Optical Technology Letters, 1999, 22, 405-408.	1.4	1
124	Waveguide Cross Section and Background Magnetic Field Tapers for Broadbanding a Gyro-TWT. Journal of Infrared, Millimeter and Terahertz Waves, 2000, 21, 1255-1267.	0.6	1
125	A Simple Algorithm for Large-Signal Analysis of a Gyro-TWT. , 2007, , .		1
126	Analysis of ohmic quality factor for the Azimuthally Symmetrical TE<inf>03</inf>-mode 42GHz gyrotron cavity. , 2007, , .		1

#	Article	IF	Citations
127	PIC simulation of S-Band Magnetically Insulated Line Oscillator. , 2009, , .		1
128	P3-20: Analysis of dispersion and interaction impedance for vane-loaded coaxial waveguide structure. , 2010, , .		1
129	P2-3: Exploration of a broadband ‘semi-vane’ helical SWS. , 2010, , .		1
130	Performance improvement study of a relativistic magnetron using MAGIC-3D. , 2011, , .		1
131	Cold cavity analysis for 35 GHz gyrotron interaction cavity using free space method. , 2011, , .		1
132	Cold test of cylindrical open resonator for 42ÂGHz, 200ÂkW gyrotron. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 1347-1356.	1.3	1
133	Universal filter design using transconductance CMOS inverter based CCII+. , 2015, , .		1
134	Particle-in-Cell simulation of gyro-TWT using a metal PBG circuit. , 2015, , .		1
135	3-D PIC Simulation of Gyrotwystron Amplifier Using MAGIC. IEEE Transactions on Plasma Science, 2015, 43, 398-404.	1.3	1
136	Gyro-TWT Using a Metal PBG Waveguide as Its RF Circuitâ€”Part II: PIC Simulation and Parametric Analysis. IEEE Transactions on Electron Devices, 2016, 63, 2125-2131.	3.0	1
137	Nonlinear Analysis of a Gyroklystron Amplifier with Misaligned Electron Beam. Journal of Fusion Energy, 2016, 35, 289-298.	1.2	1
138	Effect of axial magnetic field tapering on whistler-pumped FEL amplifier in collective Raman regime operation. International Journal of Engineering and Technology(UAE), 2018, 7, 2044.	0.3	1
139	Behind the Wall Heartbeat Detection using SVD and MTI Filtering. , 2019, , .		1
140	Notice of Removal: PIC simulation study of dielectric-filled S-band magnetically insulated line oscillator (MILO). , 2019, , .		1
141	PIC Simulation Study of L-band Bifrequency Magnetically Insulated Line Oscillator. , 2019, , .		1
142	Power and Efficiency Enhancement of Reltron With Two-Stage RF Output. IEEE Transactions on Electron Devices, 2021, 68, 1936-1938.	3.0	1
143	Pixel-based metaatom design of graphene-metasurface absorber for terahertz waves. , 2019, , .		1
144	Transfer of information using surface-plasmon-polariton waves. , 2019, , .		1

#	Article	IF	Citations
145	PIC simulation study of dielectric-filled S-band magnetically insulated line oscillator (MILO). , 2020, , .		1
146	Analysis of the Dual Side-Coupled RF Cavities for the HPM Devicesâ€"An Equivalent Circuit Approach. IEEE Transactions on Electron Devices, 2022, 69, 2051-2057.	3.0	1
147	Study of the Beamâ€"Wave Interaction Behavior of the Side-Coupled Cavity Structure. IEEE Transactions on Plasma Science, 2021, 49, 3793-3802.	1.3	1
148	Propagation Characteristics of Semiconductor Loaded Waveguide with Transverse Magnetic Field. IETE Journal of Research, 1973, 19, 695-696.	2.6	0
149	A Simple Model for Anisotropic Loading of a Vane-Loaded Helix for Broad-Band Travelling-Wave Tubes. IETE Journal of Research, 1993, 39, 387-390.	2.6	0
150	Effects of circuit loss and space charge in gyro-travelling-wave tubes. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1507-1517.	0.6	0
151	Harnessing of the Axial Kinetic Electron Energy of a Large-Orbit Gyrotron by an Assistant Azimuthal Background Magnetic Field. IETE Technical Review (Institution of Electronics and Telecommunication) Tj ETQq1 1 0.784314 rgBT /Ove	3.2	0
152	Analysis of a Gyro-TWT in a Cylindrical Waveguide with a Dielectric Lining on its Wall. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2002, 19, 77-83.	3.2	0
153	Analysis of a Disc-Loaded-Coaxial Waveguide for Wideband and High-Gain Gyro-TWTs. , 2006, , .		0
154	Eigenmodes and Ohmic quality factor of a tapered cavity resonator. , 2007, , .		0
155	Study of metallic photonic Band Gap cavity for high power microwave devices. , 2009, , .		0
156	Dispersion analysis of two dimensional metallic photonic band gap structures. , 2009, , .		0
157	Measurement of dispersion and azimuthal interaction impedance of vane-loaded coaxial wave guiding structures. , 2011, , .		0
158	Energy calculation for magnetically insulated line oscillator. , 2011, , .		0
159	Beam-wave interaction analysis of a 42 GHz, 200 kW CW gyrotron. , 2011, , .		0
160	Study of electron bunching in gyroklystrons. , 2011, , .		0
161	Analysis of two dimensional metal electromagnetic band gap (EBG) structure using finite difference time domain method. , 2011, , .		0
162	Initiatives in new generation high power microwave sources in India. , 2011, , .		0

#	Article	IF	Citations
163	Modeling and simulation of a 250 GHz metal PBG waveguide for gyrotron amplifier. , 2012, , .		0
164	Analysis of PBG structures using FDTD algorithm. , 2012, , .		0
165	Relativistic Magnetron Performance Improvement Through Simultaneous Electric and Magnetic Fields Priming. Journal of Fusion Energy, 2013, 32, 575-579.	1.2	0
166	Relativistic Magnetron Priming by Loading the Resonators Through Dielectric Rods. IEEE Transactions on Plasma Science, 2013, 41, 3619-3623.	1.3	0
167	Design and simulation of 94 GHz metal PBG waveguide. , 2013, , .		0
168	MULTIMODE ANALYSIS AND PIC SIMULATION OF A METAL PBG CAVITY GYROTRON OSCILLATOR. Progress in Electromagnetics Research M, 2014, 39, 11-18.	0.9	0
169	Cold measurement of a Ka-band Metal PBG waveguide. , 2014, , .		0
170	Evaluation of Cathode Heater Assembly for 42 GHz, 200 kW Gyrotron. Frequenz, 2014, 68, .	0.9	0
171	Multimode analysis of a W-band gyroklystron amplifier. , 2014, , .		0
172	Beam-wave interaction study of a second harmonic gyroklystron amplifier. , 2015, , .		0
173	Beam wave interaction studies of gridless reltron. , 2015, , .		0
174	Time-dependent nonlinear analysis of gyro-TWT amplifier. , 2015, , .		0
175	Electromagnetic analysis of a coaxial metal disc loaded waveguiding structure. , 2015, , .		0
176	Electron beam and RF wave interaction mechanism in the reltron oscillator. , 2016, , .		0
177	Simulation Investigation of S/Ku dual-band magnetically insulated line Oscillator. , 2018, , .		0
178	Modeâ€matching analysis for characterization of the sectoral waveguide mode converters. Microwave and Optical Technology Letters, 2019, 61, 2619-2627.	1.4	0
179	Notice of Removal: Design of Coaxial Waveguide TEM to Circular Waveguide TM0n Mode Transducer. , 2019, , .		0
180	Systematic Time-Dependent, Multimode Simulation Study of a Ka-Band, Three-Cavity Second-Harmonic Gyroklystron Amplifier. IEEE Transactions on Plasma Science, 2020, 48, 3558-3564.	1.3	0

#	Article	IF	Citations
181	Localization of pulse-modulated surface-plasmon-polariton wave guided by a planar silicon/silver interface. Journal of Modern Optics, 2020, 67, 811-815.	1.3	0
182	Deep neural network-based target separation from mixed micro-Doppler signature of multiple moving targets. Journal of Electromagnetic Waves and Applications, 0, , 1-14.	1.6	0
183	RF behavior of a 35â€‰GHz conventional cavity gyrotron using multimode analysis and PIC simulation. Journal of Electromagnetic Waves and Applications, 2021, 35, 2428-2446.	1.6	0
184	Equivalent Circuit Approach for Beamâ€“Wave Interaction Analysis of MILO. IEEE Transactions on Plasma Science, 2021, 49, 2709-2717.	1.3	0
185	10.1063/1.5037919.1. , 2018, , .		0
186	Beam-wave Interaction Analysis of X-band Gridless Reltron. , 2019, , .		0
187	Electromagnetic analysis of ohmic quality factor of corrugated coaxial cavity structure for MILO. , 2020, , .		0
188	Design analysis of a Tunable Tapered Metallic Baffle TM01 to TE11 HPM Mode Converter. , 2020, , .		0
189	Power and Efficiency Enhancement of the Reltron Using Dual RF Output Cavities. , 2020, , .		0
190	Analysis of an anisotropically loaded helix in the fastâ€wave regime for gyroâ€travelingâ€wave amplifiers. Microwave and Optical Technology Letters, 1997, 14, 52-56.	1.4	0
191	A simple Eulerian analysis of IM3 distortion in helix travelingâ€wave tubes. Microwave and Optical Technology Letters, 1999, 22, 405-408.	1.4	0
192	Complex permittivity and permeability measurement using a rectangular waveguide. Microwave and Optical Technology Letters, 2000, 27, 180-182.	1.4	0
193	Twoâ€stage vane loading of gyroâ€TWTs for high gains and bandwidths. Microwave and Optical Technology Letters, 2000, 27, 210-213.	1.4	0