

# Olgerts Dumbrajs

## List of Publications by Year in descending order

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237  
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239  
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239  
docs citations

239  
times ranked

1025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mode Excitation in Gyrotrons With Triode-Type Electron Guns. IEEE Transactions on Electron Devices, 2022, 69, 785-791.	1.6	1
2	Shadowing of the operating mode by sidebands in gyrotrons with diode-type electron guns. Physics of Plasmas, 2021, 28, 013110.	0.7	2
3	To the Theory of Gyrotrons with Wide Emitters. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 141-151.	1.2	4
4	Zones of soft and hard self-excitation in gyrotrons: Generalized approach. Physics of Plasmas, 2020, 27, .	0.7	7
5	GYROCOMPU: Toolbox Designed for the Analysis of Gyrotron Resonators. IEEE Transactions on Plasma Science, 2020, 48, 3007-3016.	0.6	7
6	Some Advantages of the Gyrotrons with Width Emitters. , 2020, , .		0
7	Third harmonic CW gyrotron with operating frequency 1.2 THz for a DNP /NMA spectroscopy. , 2019, , .		1
8	Functional Analysis Method for Nonlinear Theory of Gyrotrons. IEEE Transactions on Plasma Science, 2019, 47, 3141-3147.	0.6	3
9	High Cyclotron Harmonics Excitation in Multi-beam Terahertz Range Gyrotrons. , 2019, , .		0
10	THE GYROTRON STARTUP SCENARIO IN THE SINGLE MODE TIME DEPENDENT APPROACH. Mathematical Modelling and Analysis, 2019, 24, 494-506.	0.7	2
11	Efficiency of gyrotrons with a tapered magnetic field in the regime of soft self-excitation. Physics of Plasmas, 2018, 25, .	0.7	9
12	Theoretical Study on the 1.185-THz Third Harmonic Gyrotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 177-182.	1.2	3
13	Gyrotron Operation in the "No-Start-Current" Zone. , 2018, , .		0
14	Study of Mode Competition in the Third Harmonic Gyrotron with Inclusion of the Electron Velocity Spread and the Beam Width. , 2018, , .		0
15	Possible gyrotron operation in the "no start current" zone caused by the axial dependence of the phase of the resonator field. Physics of Plasmas, 2018, 25, 093108.	0.7	2
16	Influence of Reflections on Frequency Tunability and Mode Competition in the Second-Harmonic THz Gyrotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 824-837.	1.2	28
17	Multimode time-dependent gyrotron equations for different time scales. Physics of Plasmas, 2017, 24, .	0.7	4
18	Using of reflections for expansion of frequency tuning in a THz-band gyrotron. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Start-up scenario of a high-power pulsed gyrotron for 300 GHz band collective Thomson scattering diagnostics in the Large Helical Device. , 2016, , .		0
20	Self-consistent non-stationary theory of the gyrotron. Physics of Plasmas, 2016, 23, .	0.7	11
21	Influence of the electron velocity spread and the beam width on the efficiency and mode competition in the high-power pulsed gyrotron for 300 GHz band collective Thomson scattering diagnostics in the large helical device. Physics of Plasmas, 2016, 23, .	0.7	13
22	Start-up scenario of a high-power pulsed gyrotron for 300 GHz band collective Thomson scattering diagnostics in the large helical device. Physics of Plasmas, 2016, 23, .	0.7	13
23	Hysteresis and Frequency Tunability of Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 551-560.	1.2	10
24	Field Formation in the Interaction Space of Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 111-122.	1.2	15
25	Hysteresis and frequency tunability of gyrotrons. , 2015, , .		0
26	High speed frequency modulation of a 460 GHz gyrotron for application to the 700 MHz DNP enhanced NMR spectroscopy. , 2015, , .		1
27	Nonstationary oscillations in gyrotrons revisited. Physics of Plasmas, 2015, 22, 053113.	0.7	16
28	High-Speed Frequency Modulation of a 460-GHz Gyrotron for Enhancement of 700-MHz DNP-NMR Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 819-829.	1.2	28
29	The non-resonant kink modes triggering strong sawtooth-like crashes in the EAST tokamak. Plasma Physics and Controlled Fusion, 2014, 56, 125016.	0.9	4
30	Stability of gyrotron operation in very high-order modes. , 2014, , .		1
31	Theoretical Study of the Effect of Electron Beam Misalignment on Operation of the Gyrotron FU IV A. IEEE Transactions on Plasma Science, 2014, 42, 1586-1593.	0.6	6
32	Dependence of the gyrotron efficiency on the azimuthal index of non-symmetric modes. Physics of Plasmas, 2014, 21, 063112.	0.7	0
33	On the dependence of the efficiency of a 240 GHz high-power gyrotron on the displacement of the electron beam and on the azimuthal index. Physics of Plasmas, 2014, 21, .	0.7	11
34	Effect of electron beam misalignments on the gyrotron efficiency. Physics of Plasmas, 2013, 20, .	0.7	22
35	Design of the EU-1MW gyrotron for ITER. , 2013, , .		7
36	Effect of the tilt on the gyrotron operation. , 2013, , .		0

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37	Experimental verification of a self-consistent calculation for continuous frequency-tune with a 400 GHz band second harmonic gyro-BWO. , 2013, , .		3
38	Calculations of Starting Currents and Frequencies in Frequency-Tunable Gyrotrons. Japanese Journal of Applied Physics, 2012, 51, 126601.	0.8	17
39	On optimization of sub-THz gyrotron parameters. Physics of Plasmas, 2012, 19, .	0.7	11
40	Analysis of Aftercavity Interaction in European ITER Gyrotrons and in the Compact Sub-THz Gyrotron FU CW-CI. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 1171-1181.	1.2	2
41	Regions of azimuthal instability in gyrotrons. Physics of Plasmas, 2012, 19, 063103.	0.7	6
42	NUMERICAL EXPERIMENTS WITH SINGLE MODE GYROTRON EQUATIONS. Mathematical Modelling and Analysis, 2012, 17, 251-270.	0.7	2
43	On the numerical scheme employed in gyrotron interaction simulations. EPJ Web of Conferences, 2012, 32, 04017.	0.1	1
44	Analysis of equations arising in gyrotron theory. Nonlinear Analysis: Modelling and Control, 2012, 17, 139-152.	1.1	4
45	Calculations of Starting Currents and Frequencies in Frequency-Tunable Gyrotrons. Japanese Journal of Applied Physics, 2012, 51, 126601.	0.8	15
46	Understanding complex magnetohydrodynamic activities associated with a relaxation in the HT-7 tokamak. Plasma Physics and Controlled Fusion, 2011, 53, 085019.	0.9	3
47	A low-dimensional model system for quasi-periodic plasma perturbations. Physics of Plasmas, 2011, 18, .	0.7	24
48	Influence of Possible Reflections on the Operation of European ITER Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 892.	1.2	8
49	Design of an Optimized Resonant Cavity for a Compact Sub-Terahertz Gyrotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 1115-1125.	1.2	16
50	Frequency Tunable Gyrotron FU CW VA for Measuring Hyperfine Split of Positronium. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 1265-1270.	1.2	11
51	Gyrotron interaction simulations with tapered magnetostatic field. , 2010, , .		1
52	Structure and dynamics of sawteeth crashes in ASDEX Upgrade. Physics of Plasmas, 2010, 17, .	0.7	33
53	To the theory of high-power gyrotrons with uptapered resonators. , 2010, , .		1
54	Influence of possible reflections on the operation of European ITER gyrotrons. , 2010, , .		3

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55	Simulation and experimental investigations on dynamic after cavity interaction (ACI). , 2010, , .		11
56	Temporal evolution of neoclassical tearing modes in the frequently interrupted regime. Physics of Plasmas, 2010, 17, 042118.	0.7	1
57	To the theory of high-power gyrotrons with uptapered resonators. Physics of Plasmas, 2010, 17, 053104.	0.7	18
58	REVIEW OF THE EUROPEAN PROGRAMME FOR THE DEVELOPMENT OF THE GYROTRON FOR ITER. , 2009, , .		2
59	Electron dynamics in the process of mode switching in gyrotrons. Physics of Plasmas, 2009, 16, .	0.7	4
60	First Experimental Results from the European Union 2-MW Coaxial Cavity ITER Gyrotron Prototype. Fusion Science and Technology, 2009, 55, 204-212.	0.6	66
61	Hysteresis in Sawtooth Crash in ASDEX Upgrade Tokamak. The Open Plasma Physics Journal, 2009, 1, 9-13.	0.7	1
62	FIRST EXPERIMENTAL RESULTS FROM THE EU 2 MW COAXIAL CAVITY ITER GYROTRON PROTOTYPE. , 2009, , .		6
63	STATUS OF EXPERIMENTS ON THE EU 2 MW COAXIAL CAVITY ITER GYROTRON PRE-PROTOTYPE AT FZK. , 2009, , .		1
64	Hysteresis in Mode Competition in High Power 170ÂGHz Gyrotron for ITER. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 232-239.	0.6	7
65	Linear and Non-Linear Inserts for Genuinely Wideband Continuous Frequency Tunable Coaxial Gyrotron Cavities. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 416-423.	0.6	11
66	TM Modes in Coaxial Cavities With Inner Surface Corrugations. IEEE Transactions on Plasma Science, 2008, 36, 2613-2617.	0.6	4
67	Explicit near-symplectic mappings of Hamiltonian systems with Lie-generating functions. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 115202.	0.7	3
68	Transition from quasiperiodicity to chaos just before sawtooth crash in the ASDEX Upgrade tokamak. Nuclear Fusion, 2008, 48, 062001.	1.6	19
69	Status of development of the 2MW, 170GHz coaxial-cavity gyrotron for ITER. , 2008, , .		1
70	Electron dynamics in the process of mode switching in gyrotrons. , 2008, , .		0
71	On the accuracy of some mapping techniques used to study the magnetic field dynamics in tokamaks. Nuclear Fusion, 2008, 48, 024017.	1.6	4
72	Diffusion in a stochastic magnetic field in ASDEX Upgrade. Nuclear Fusion, 2008, 48, 024011.	1.6	7

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73	Gyrotron mode competition calculations: Investigations on the choice of numerical parameters. , 2008, , .		3
74	Mode competition in the 170 GHz coaxial gyrotron cavity for ITER. , 2007, , .		3
75	Wideband continuous frequency tunable coaxial gyrotron oscillators. , 2007, , .		0
76	Investigations on an experimental 170 GHz coaxial cavity gyrotron. , 2007, , .		0
77	Stochastic sawtooth reconnection in ASDEX Upgrade. Nuclear Fusion, 2007, 47, 23-32.	1.6	48
78	EU developments of the ITER ECRH system. Fusion Engineering and Design, 2007, 82, 454-462.	1.0	33
79	INFLUENCE OF MAGNETIC FIELD INHOMOGENEITY ON OPERATION OF THE THz GYROTRON WITH A PULSE MAGNET. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 27, 1159-1171.	0.6	2
80	Eigenvalues and Ohmic Losses in Coaxial Gyrotron Cavity. IEEE Transactions on Plasma Science, 2006, 34, 1516-1522.	0.6	44
81	High-power gyrotron development at Forschungszentrum Karlsruhe for fusion applications. IEEE Transactions on Plasma Science, 2006, 34, 173-186.	0.6	38
82	Stochastization as a possible cause for fast reconnection during MHD mode activity in the ASDEX Upgrade tokamak. Nuclear Fusion, 2006, 46, 741-751.	1.6	28
83	Gyrotron Development in EU for Present and Future Fusion Plasma Experiments. , 2006, , .		1
84	Dynamics and Output Momentum Spectrum of Electrons Under Harmonic Resonance in Gyrotron Resonators. AIP Conference Proceedings, 2006, , .	0.3	1
85	Gyrotron Development in the EU for Present Fusion Experiments and for ITER. AIP Conference Proceedings, 2006, , .	0.3	1
86	Hamiltonian map description of electron dynamics in gyrotrons. IEEE Transactions on Plasma Science, 2006, 34, 673-680.	0.6	6
87	Numerical Study of the Hamiltonian Gyrotron Map. , 2006, , .		0
88	Progress in Development of the 170 GHz, 2MW Coaxial Cavity Gyrotron for ITER. , 2006, , .		2
89	Numerical Simulation of the Problem Arising in the Gyrotron Theory. Mathematics in Industry, 2006, , 124-128.	0.1	0
90	Search for deterministic chaos in ELM time series of ASDEX upgrade Tokamak. IEEE Transactions on Plasma Science, 2005, 33, 1115-1122.	0.6	3

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91	Design of Cavities for a Short Pulse Powerful Large Orbit Gyrotron. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 637-655.	0.6	1
92	Are Coaxial Super Power Gyrotrons Feasible?. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 787-805.	0.6	3
93	Development of a 2-MW, CW Coaxial Gyrotron at 70 GHz and Test Facility for ITER. Journal of Physics: Conference Series, 2005, 25, 33-44.	0.3	21
94	Sightline optimization of the multichannel laser interferometer for W7-X. Review of Scientific Instruments, 2005, 76, 023501.	0.6	2
95	Stochastization as a possible cause of fast reconnection in the frequently interrupted regime of neoclassical tearing modes. Physics of Plasmas, 2005, 12, 110704.	0.7	10
96	Chaotic electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 043104.	0.7	6
97	A 2 MW, 170 GHz coaxial cavity gyrotron - experimental verification of the design of main components. Journal of Physics: Conference Series, 2005, 25, 24-32.	0.3	22
98	Canonical perturbation theory for complex electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 113102.	0.7	9
99	Azimuthal instability of radiation in gyrotrons with overmoded resonators. Physics of Plasmas, 2005, 12, 053106.	0.7	8
100	NUMERICAL SOLUTION OF SINGLE MODE GYROTRON EQUATION. Mathematical Modelling and Analysis, 2005, 9, 25-38.	0.7	3
101	The search for chaotic edge localized modes in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2004, 46, 1409-1422.	0.9	7
102	Autoregressive moving average model for analyzing edge localized mode time series on Axially Symmetric Divertor Experiment (ASDEX) Upgrade tokamak. Physics of Plasmas, 2004, 11, 5658-5667.	0.7	10
103	Reflections in gyrotrons with radial output: Consequences for the ITER coaxial gyrotron. Physics of Plasmas, 2004, 11, 5423-5429.	0.7	10
104	Correction to "Spatio-Temporal Chaos in the Transverse Section of Gyrotron Resonators" IEEE Transactions on Plasma Science, 2004, 32, 2155-2155.	0.6	1
105	Mode Selection for a Terahertz Gyrotron Based on a Pulse Magnet System. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 1023-1036.	0.6	4
106	Reflections in Gyrotrons With Axial Output. IEEE Transactions on Plasma Science, 2004, 32, 899-902.	0.6	20
107	165-GHz Coaxial Cavity Gyrotron. IEEE Transactions on Plasma Science, 2004, 32, 853-860.	0.6	54
108	Coaxial Gyrotrons: Past, Present, and Future (Review). IEEE Transactions on Plasma Science, 2004, 32, 934-946.	0.6	89

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109	Ohmic Losses in Coaxial Gyrotron Cavities With Corrugated Insert. IEEE Transactions on Plasma Science, 2004, 32, 861-866.	0.6	42
110	A 2-MW, 170-GHz Coaxial Cavity Gyrotron. IEEE Transactions on Plasma Science, 2004, 32, 413-417.	0.6	113
111	Towards a 2 MW, CW, 170 GHz coaxial cavity gyrotron for ITER. Fusion Engineering and Design, 2003, 66-68, 481-485.	1.0	34
112	Hysteresis-like effects in gyrotron oscillators. Physics of Plasmas, 2003, 10, 1183-1186.	0.7	27
113	Stochastic processes in gyrotrons. Nuclear Fusion, 2003, 43, 1446-1453.	1.6	9
114	Influence of reflections on the operation of the 2 MW, CW 170 GHz coaxial cavity gyrotron for ITER. Nuclear Fusion, 2003, 43, 1454-1457.	1.6	11
115	QUANTUM CHAOS AND SYMMETRIES IN NUCLEAR SPECTROSCOPY. , 2003, , .		1
116	Coaxial cavity gyrotron- recent experimental results. IEEE Transactions on Plasma Science, 2002, 30, 819-827.	0.6	64
117	Spatio-temporal chaos in the transverse section of gyrotron resonators. IEEE Transactions on Plasma Science, 2002, 30, 846-850.	0.6	12
118	Novel method of improving performance of coaxial gyrotron resonators. IEEE Transactions on Plasma Science, 2002, 30, 836-839.	0.6	6
119	On the negative-mass instability in gyrotrons. International Journal of Electronics, 2001, 88, 215-224.	0.9	7
120	Frequency step-tunable (114-170 GHz) megawatt gyrotrons for plasma physics applications. Fusion Engineering and Design, 2001, 53, 407-421.	1.0	97
121	Development of Advanced High Power Gyrotrons at Forschungszentrum Karlsruhe. Frequenz, 2001, 55, .	0.6	4
122	Electron cyclotron heating and current drive control by means of frequency step tunable gyrotrons. Nuclear Fusion, 2001, 41, 927-944.	1.6	14
123	Nonstationary oscillations in gyrotrons. Physics of Plasmas, 2001, 8, 4608-4612.	0.7	40
124	Generalized gyrotron theory with inclusion of adiabatic electron trapping in the presence of a depressed collector. Physics of Plasmas, 2001, 8, 1358.	0.7	11
125	Influence of reflections on mode competition in gyrotrons. IEEE Transactions on Plasma Science, 2000, 28, 588-596.	0.6	34
126	Space charge effects as a source of electron energy spread and efficiency degradation in gyrotrons. IEEE Transactions on Plasma Science, 2000, 28, 633-637.	0.6	10



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127	Design of rapid-frequency step-tunable powerful coaxial-cavity harmonic gyrotrons. IEEE Transactions on Plasma Science, 2000, 28, 681-687.	0.6	12
128	Traces of Stochasticity in Electron Trajectories in Gyrotron Resonators. Journal of Infrared, Millimeter and Terahertz Waves, 2000, 21, 1759-1776.	0.6	12
129	Maximum-entropy method and oscillations in the diffraction cone. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 1321-1326.	1.4	0
130	Perturbative particle transport studies in the W7-AS stellarator. Nuclear Fusion, 2000, 40, 365-378.	1.6	33
131	Multifrequency operation of a gyrotron. IEEE Transactions on Plasma Science, 1999, 27, 327-329.	0.6	5
132	Generalized gyrotron theory with inclusion of electron velocity and energy spreads. Physics of Plasmas, 1999, 6, 2618-2621.	0.7	28
133	Analysis of electron trajectories in a gyrotron resonator. IEEE Transactions on Plasma Science, 1998, 26, 846-853.	0.6	14
134	Tunable coaxial gyrotron for plasma heating and diagnostics. International Journal of Electronics, 1998, 84, 411-419.	0.9	19
135	On determination of the particle pinch coefficient from data on gas modulation experiments. Plasma Physics and Controlled Fusion, 1998, 40, 447-449.	0.9	1
136	ELECTRON TRAJECTORIES IN A REALISTIC GYROTRON RESONATOR. Mathematical Modelling and Analysis, 1998, 3, 74-80.	0.7	3
137	Effect of technical noise on radiation linewidth in free-running gyrotron oscillators. Physics of Plasmas, 1997, 4, 1413-1423.	0.7	23
138	Electron density profile reconstruction from multichannel microwave interferometer data at W7-AS. Review of Scientific Instruments, 1997, 68, 4038-4042.	0.6	15
139	Insert misalignment in coaxial cavities and its influence on gyrotron operation. International Journal of Electronics, 1997, 82, 261-268.	0.9	20
140	Technical noise in gyrokystrons and phase-locked gyrotron oscillators. Physics of Plasmas, 1997, 4, 1424-1433.	0.7	12
141	A multifrequency gyrotron for plasma heating and diagnostics. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 2111-2115.	0.6	4
142	Design of a 3-MW 140-GHz gyrotron with a coaxial cavity. IEEE Transactions on Plasma Science, 1996, 24, 586-595.	0.6	26
143	Theory of gyro-backward wave oscillators with tapered magnetic field and waveguide cross section. IEEE Transactions on Plasma Science, 1996, 24, 620-629.	0.6	60
144	Kinetic model of collective scattering off fast ion generated electromagnetic fluctuations in magnetized Vlasov plasma. Physics of Plasmas, 1996, 3, 696-698.	0.7	1

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145	Optimization of multistage harmonic gyrodevices. <i>Physics of Plasmas</i> , 1996, 3, 3133-3144.	0.7	19
146	Magnetic field tapering in the KfK coaxial gyrotron. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995, 16, 473-482.	0.6	1
147	Diagnostics of density fluctuations by enhanced scattering with frequency-tunable microwave sources. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995, 16, 307-315.	0.6	2
148	Theory of relativistic cyclotron masers. <i>Physical Review E</i> , 1995, 52, 998-1012.	0.8	17
149	Wave interaction in gyrotrons with off-axis electron beams. <i>Physics of Plasmas</i> , 1995, 2, 4621-4630.	0.7	21
150	Design of a high order volume mode cavity for a 1 MW/140GHz gyrotron. <i>International Journal of Electronics</i> , 1995, 78, 771-787.	0.9	15
151	Two-harmonic prebunching of electrons in multicavity gyrodevices. <i>Physics of Plasmas</i> , 1995, 2, 568-577.	0.7	43
152	Symmetry breaking in coaxial cavities and its influence on gyrotron operation. , 1995, , 521-524.		1
153	Gyrotrons for technological applications. <i>International Journal of Electronics</i> , 1994, 76, 351-364.	0.9	7
154	Nonstationary theory of mode competition in gyrotrons with allowance for small inhomogeneity of the guiding magnetic field. <i>Journal of Applied Physics</i> , 1994, 76, 5580-5585.	1.1	3
155	Eccentricity of the electron beam in a gyrotron cavity. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1994, 15, 1255-1262.	0.6	18
156	Theory of gyrotrons with coaxial resonators. <i>IEEE Transactions on Electron Devices</i> , 1994, 41, 433-438.	1.6	85
157	Fast Frequency-Step-Tunable Gyrotrons for Plasma Heating and Fusion Diagnostics. <i>Fusion Science and Technology</i> , 1994, 26, 561-565.	0.6	4
158	Development of High Power 140 GHz Gyrotrons at KfK for Applications in Fusion. , 1993, , 618-622.		1
159	Mode competition using TE <sub>03</sub> gyrotron cavities. <i>International Journal of Electronics</i> , 1992, 72, 687-720.	0.9	31
160	Competition between co- and counter-rotating modes in gyrotrons. <i>International Journal of Electronics</i> , 1992, 72, 683-686.	0.9	0
161	Kinetic theory of electron-cyclotron resonance masers with asymmetry of the electron beam in a cavity. <i>IEEE Transactions on Plasma Science</i> , 1992, 20, 126-132.	0.6	29
162	Cold-cavity and self-consistent approaches in the theory of mode competition in gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 1992, 20, 133-138.	0.6	15

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163	Theory of a frequency-step-tunable gyrotron for optimum plasma ECRH. IEEE Transactions on Plasma Science, 1992, 20, 452-457.	0.6	36
164	A cavity with reduced mode conversion for gyrotrons. Journal of Infrared, Millimeter and Terahertz Waves, 1992, 13, 825-840.	0.6	15
165	Influence of the magnetic field tapering on gyrotron operation. International Journal of Electronics, 1991, 70, 1131-1141.	0.9	10
166	Kinetic theory of a gyrotron with eccentricity of the electron beam in a cavity. , 1991, , .		0
167	Cold-cavity and self-consistent approaches in the theory of mode competition in gyrotrons. , 1991, , .		0
168	On a self-consistent calculation of the self-modulation instability in gyrotrons operating in whispering gallery modes. Journal of Infrared, Millimeter and Terahertz Waves, 1990, 11, 61-67.	0.6	3
169	Efficiency of a gyrotron operating in modes with axial index equal to two. International Journal of Electronics, 1990, 68, 877-883.	0.9	0
170	Resonator for a frequency-step tunable gyrotron. International Journal of Electronics, 1990, 68, 885-890.	0.9	6
171	Competition of modes resonant with arbitrary cyclotron harmonics in a gyrotron with nonfixed axial structure of the high-frequency field. IEEE Transactions on Plasma Science, 1990, 18, 301-305.	0.6	9
172	Influence of the magnetic field tapering on gyrotron operation. , 1990, , .		0
173	Resonator with a curved wall for a gyrotron. IEEE Transactions on Plasma Science, 1989, 17, 841-843.	0.6	1
174	Possible operation of the KfK gyrotron at harmonics. Journal of Infrared, Millimeter and Terahertz Waves, 1988, 9, 1067-1086.	0.6	2
175	Resonator design studies for a 150 GHz gyrotron at Kf K. International Journal of Electronics, 1988, 64, 107-126.	0.9	17
176	Mode competition in a gyrotron with tapered external magnetic field. International Journal of Electronics, 1988, 64, 137-145.	0.9	22
177	A complex cavity with mode conversion for gyrotrons. International Journal of Electronics, 1988, 65, 285-295.	0.9	36
178	Frequency Step-Tunable Gyrotron. , 1988, 1039, 282.		0
179	Resonator With A Curved Wall For A Gyrotron. Proceedings of SPIE, 1988, 1039, 373.	0.8	0
180	Parameter studies for a 150GHz gyrotron operating in the TE031 mode. International Journal of Electronics, 1986, 61, 735-746.	0.9	16

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181	Calculation of eigenmodes of tapered gyrotron resonators. International Journal of Electronics, 1986, 60, 143-154.	0.9	65
182	Microscopic calculation of antiproton atomic-like bound states in light nuclei. Nuclear Physics A, 1986, 457, 491-517.	0.6	26
183	Phenomenological analyses of antiproton elastic scattering data. Nuclear Physics A, 1985, 446, 637-656.	0.6	13
184	The $(\bar{p}+??)$ , $(\bar{p}+K?)$ , $(??\bar{p}+)$ , $(K+K?)$ , and $\overline{\Sigma^+}$ Atomic States. Zeitschrift für Physik A, 1985, 321, 297-299.	1.4	3
185	Scattering Lengths Derived from Atomic Level Shifts in Light Antiprotonic Atoms. Physica Scripta, 1985, 31, 485-486.	1.2	3
186	Low-energy antiproton scattering by atoms and Coulomb level shifts. Physical Review A, 1985, 32, 637-638.	1.0	1
187	The energy shifts of antiprotonic atoms. Lecture Notes in Physics, 1985, , 368-373.	0.3	0
188	Analysis of $\bar{p}+^{12}\text{C}$ elastic scattering. Physical Review C, 1984, 29, 581-591.	1.1	14
189	Rapidly convergent effective range formula. Physical Review C, 1984, 29, 670-671.	1.1	1
190	Low-energy scattering parameters and atomic level shifts in the $\bar{p}+^{16}\text{O}$ , $\bar{p}+^{32}\text{S}$ and $\bar{p}+^{40}\text{Ca}$ systems. Nuclear Physics A, 1984, 412, 195-200.	0.6	5
191	Model-independent analysis of the differential cross section for the reaction $n+d\rightarrow t$ at medium energies. Zeitschrift für Physik A, 1984, 316, 43-47.	1.4	1
192	Constraints on the short-range potential from the energy level shifts in protonium. Zeitschrift für Physik A, 1984, 319, 87-89.	1.4	4
193	Compilation of coupling constants and low-energy parameters. Nuclear Physics B, 1983, 216, 277-335.	0.9	553
194	Positron-atom dispersion relations. Physical Review A, 1983, 27, 220-224.	1.0	1
195	Analytic parametrization for nuclear form factors. Physical Review C, 1982, 26, 680-684.	1.1	0
196	Ion-atom dispersion relations. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, L341-L344.	1.6	2
197	Dispersion relations in atomic physics. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 961-975.	1.6	5
198	Antiprotonic helium and lithium with one or two electrons. Zeitschrift für Physik A, 1982, 306, 297-300.	1.4	57

#	ARTICLE	IF	CITATIONS
199	Analytic Parametrizations for Nuclear Form Factors. Zeitschrift für Physik A, 1981, 301, 55-57.	1.4	6
200	Extraction of nuclear coupling constants from data on nuclear charge form factors. Zeitschrift für Physik A, 1981, 303, 235-237.	1.4	0
201	Pion Coupling to Nuclei. Fortschritte Der Physik, 1981, 29, 487-494.	1.5	0
202	Kaon-Nucleus Scattering, Regeneration and Analyticity. , 1981, , 187-190.		0
203	The Zeroology of Kaon-Nucleon Forward Scattering Amplitudes. , 1981, , 139-144.		0
204	Electron scattering with the excitation of the 15.11 MeV state of $^{12}\text{C}$ and the $^{12}\text{B}$ $^{12}\text{C}$ coupling constant. Zeitschrift für Physik A, 1980, 298, 61-63.	1.4	1
205	The $^3\text{He}$ $^3\text{He}$ coupling constant and the $p^3\text{H} \hat{\pi}^+ n^3\text{He}$ charge exchange. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1980, 29, 69-72.	0.4	6
206	On the determination of the $^3\text{He}$ $^3\text{He}$ coupling on the basis of PCAC. Journal of Physics G: Nuclear Physics, 1980, 6, L9-L11.	0.8	8
207	Pion coupling to the $A=6, A=12$ , and $A=14$ nuclei. Physical Review C, 1980, 22, 2151-2155.	1.1	3
208	Analyticity and model-independent determination of the nuclear charge density. Physical Review C, 1980, 21, 1677-1679.	1.1	5
209	Signals of $W_{\pm}$ and $Z^0$ production in hadronic collisions as predicted by quantum-chromodynamics perturbation theory. Physical Review D, 1979, 20, 2873-2887.	1.6	10
210	On the $^3\text{He}$ $^3\text{He}$ coupling. Annals of Physics, 1979, 118, 249-258.	1.0	8
211	Backward dispersion relations and pion- $^4\text{He}$ phase-shift analyses. Il Nuovo Cimento A, 1979, 51, 81-87.	0.2	0
212	Kaon-nucleus scattering and kaon nuclear coupling constants. Il Nuovo Cimento A, 1979, 54, 155-164.	0.2	3
213	Dispersion relation analysis of proton Compton scattering. Nuclear Physics B, 1979, 149, 264-268.	0.9	6
214	Determination of the $^7\text{Be}$ $^4\text{He}$ $^3\text{He}$ coupling by a dispersion analysis of $^3\text{He} + ^4\text{He}$ scattering. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1978, 23, 48-50.	0.4	0
215	Determination of the $^3\text{He}$ $^3\text{He}$ coupling constant from data on the $p^3\text{H} \hat{\pi}^+ n^3\text{He}$ differential cross section. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 78, 24-25.	1.5	7
216	Comment on the real part of the $K^{\pm}p$ forward scattering amplitude. Nuclear Physics B, 1977, 126, 542-544.	0.9	2

#	ARTICLE	IF	CITATIONS
217	Pole and quark-counting model for form factors of light nuclei. Zeitschrift für Physik A, 1977, 280, 249-252.	1.4	3
218	Analytic representation for form factors and determination of radii of hadrons and light nuclei. Zeitschrift für Physik A, 1977, 280, 383-384.	1.4	3
219	Present status of the experimental testing of the forward $K^+p$ and $pp, \hat{A}^-pp$ dispersion relations. European Physical Journal D, 1976, 26, 68-80.	0.4	5
220	Evaluation of the medium-energy real parts of the forward $p-4\text{He}$ elastic scattering amplitude from dispersion relations. Journal of Physics G: Nuclear Physics, 1976, 2, 795-801.	0.8	1
221	Is there any use for derivative analyticity relations?. Journal of Physics G: Nuclear Physics, 1976, 2, L129-L131.	0.8	7
222	Estimation of the coupling $4\text{Hedd}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1975, 57, 327-329.	1.5	6
223	Analyticity in hadron-nuclei binary reactions. Physics Reports, 1975, 19, 141-168.	10.3	18
224	Phenomenological Dispersion Theory of $pp, p\hat{A}^-p$ Forward Scattering. Fortschritte Der Physik, 1975, 23, 399-429.	1.5	8
225	Dispersion relations for the logarithm of the $K\hat{A}^\pm p$ forward scattering amplitude. Journal of Physics G: Nuclear Physics, 1975, 1, 172-179.	0.8	5
226	Frequency-step-tunable high-power gyrotron for plasma physics applications. , 0, , .		1
227	The reflection influence at powerful gyrotron complex operation. , 0, , .		1
228	2.2 MW, 165 GHz coaxial cavity gyrotron. , 0, , .		6
229	Design considerations for a multi-megawatt coaxial cavity gyrotron at 170 GHz. , 0, , .		2
230	Full wave analysis of coaxial gyrotron cavity with corrugated insert. , 0, , .		7
231	Hysteresis in gyrotrons. , 0, , .		1
232	Experimental results and technical requirements for a 2 MW, CW, 170 GHz coaxial cavity gyrotron. , 0, , .		3
233	Development of high power gyrotrons for fusion plasma applications in the EU. , 0, , .		0
234	Reflections in gyrotrons with radial output: consequences for the ITER coaxial gyrotron. , 0, , .		2

#	ARTICLE	IF	CITATIONS
235	Modeling of stochastic processes in gyrotrons. , 0, , .		0
236	Progress in the development of the 170 GHz coaxial cavity gyrotron. , 0, , .		2
237	Optimization of Gyrotron Resonatorâ€™s Dimensions. Journal of Telecommunications and Information Technology, 0, 1, 71-76.	0.3	0