

# Konstantinos A Avramidis

## List of Publications by Year in descending order

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180  
papers

1,607  
citations

361413

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434195

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docs citations

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times ranked

615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Testing of the European TH1509U 170-GHz 1-MW CW Industrial Gyrotronâ€™Long Pulse Operation. IEEE Electron Device Letters, 2022, 43, 623-626.	3.9	10
2	Design of a High-Q Diamond-Loaded Cavity for a Third-Harmonic Subterahertz Gyrotron Driven by a Low-Power Electron Beam. IEEE Transactions on Electron Devices, 2022, 69, 3386-3392.	3.0	1
3	Status and future development of Heating and Current Drive for the EU DEMO. Fusion Engineering and Design, 2022, 180, 113159.	1.9	22
4	Time-Domain Simulation of Helical Gyro-TWTs With Coupled Modes Method and 3-D Particle Beam. IEEE Transactions on Electron Devices, 2022, 69, 4546-4552.	3.0	2
5	Mode Discrimination by Lossy Dielectric Rods in Cavities of Second-Harmonic Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 93-105.	2.2	7
6	Towards a 1.5 MW, 140 GHz gyrotron for the upgraded ECRH system at W7-X. Fusion Engineering and Design, 2021, 164, 112173.	1.9	12
7	Design verification of the gyrotron diamond output window for the upgrade of the ECRH system at W7-X. Fusion Engineering and Design, 2021, 165, 112262.	1.9	3
8	Multifaceted Simulations Reproducing Experimental Results From the 1.5-MW 140-GHz Preprototype Gyrotron for W7-X. IEEE Transactions on Electron Devices, 2021, 68, 3063-3069.	3.0	5
9	Generation of 1.5 MWâ€™140 GHz Pulses With the Modular Pre-Prototype Gyrotron for W7-X. IEEE Electron Device Letters, 2021, 42, 939-942.	3.9	10
10	Integration concept of an Electron Cyclotron System in DEMO. Fusion Engineering and Design, 2021, 168, 112653.	1.9	18
11	Large Area Diamond Disk Growth Experiments and Thermomechanical Investigations for the Broadband Brewster Window in DEMO. IEEE Transactions on Electron Devices, 2021, 68, 4669-4674.	3.0	4
12	Large Power Increase Enabled by High-Q Diamond-Loaded Cavities for Terahertz Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 863-877.	2.2	6
13	Calibration of the KIT test setup for the cooling tests of a gyrotron cavity full-size mock-up equipped with mini-channels. Fusion Engineering and Design, 2021, 172, 112744.	1.9	2
14	Theoretical Investigation on Injection Locking of the EU 170 GHz 2 MW TE <sub>34,19</sub> -Mode Coaxial-Cavity Gyrotron. , 2021, , .		0
15	A Validation Roadmap of Multi-Physics Simulators of the Resonator of MW-Class CW Gyrotrons for Fusion Applications. Energies, 2021, 14, 8027.	3.1	7
16	Basic design considerations for a frequency step-tunable electron cyclotron wave system to suppress NTMs in DEMO. Fusion Engineering and Design, 2021, 173, 112931.	1.9	2
17	Performance Expectation and Preparation of the First Experimental Campaign of the KIT 2 MW 170/204 GHz Coaxial-Cavity Gyrotron. , 2021, , .		1
18	Theoretical investigation on possible operation of a 140 GHz 1 MW gyrotron at 175 GHz for CTS plasma diagnostics at W7-X. Physics of Plasmas, 2020, 27, .	1.9	7

#	ARTICLE	IF	CITATIONS
19	Megawatt power generation of the dual-frequency gyrotron for TCV at 84 and 126 GHz, in long pulses. AIP Conference Proceedings, 2020, , .	0.4	3
20	Extended Feedback System for Coupled Sub-THz Gyro-Devices to Provide New Regimes of Operation. IEEE Transactions on Electron Devices, 2020, 67, 5729-5735.	3.0	1
21	Collective Thomson Scattering Diagnostic for Wendelstein 7-X at 175 GHz. Journal of Instrumentation, 2020, 15, C05035-C05035.	1.2	6
22	Towards large area CVD diamond disks for Brewster-angle windows. Fusion Engineering and Design, 2020, 157, 111818.	1.9	9
23	Improved Mode Selection in Coaxial Cavities for Subterahertz Second-Harmonic Gyrotrons. IEEE Transactions on Electron Devices, 2020, 67, 2933-2939.	3.0	16
24	Triode magnetron injection gun for the KIT 2 MW 170 GHz coaxial cavity gyrotron. Physics of Plasmas, 2020, 27, .	1.9	10
25	Recent Development of a 1.5 MW, 140 GHz Continuous-Wave Gyrotron for the Upgraded ECRH System at W7-X. , 2020, , .		1
26	Theoretical Study on the Possibility for Stepwise Tuning of the Frequency of the KIT 2 MW 170/204 GHz Coaxial-Cavity Gyrotron. , 2020, , .		1
27	Operating the KIT 170 GHz 2 MW Coaxial-Cavity Gyrotron at 204 GHz: Performance Expectations and First Cold Test of the Quasi-Optical System. , 2019, , .		1
28	Multiphysics Modeling of Inert Cooling System for a 170-GHz, 2-MW Long-Pulse Coaxial-Cavity Gyrotron. IEEE Transactions on Electron Devices, 2019, 66, 4008-4015.	3.0	9
29	Automated mode recovery for gyrotrons demonstrated at Wendelstein 7-X. Fusion Engineering and Design, 2019, 148, 111258.	1.9	5
30	From W7-X Towards ITER and Beyond: 2019 Status on EU Fusion Gyrotron Developments. , 2019, , .		2
31	Design Studies of Mini-Channel Cavity Cooling for a 170 GHz, 2 MW Coaxial-Cavity Gyrotron. , 2019, , .		2
32	Manufacturing and Test of the 1 MW Long-Pulse 84/126 GHz Dual-Frequency Gyrotron for TCV. , 2019, , .		8
33	Diamond Window Technology for Electron Cyclotron Heating and Current Drive: State of the Art. Fusion Science and Technology, 2019, 75, 719-729.	1.1	10
34	Coaxial Cavity With Stepped Inner Conductor for a Sub-Terahertz Second-Harmonic Gyrotron With Broadband Continuous Frequency Tuning. IEEE Transactions on Electron Devices, 2019, 66, 5313-5320.	3.0	13
35	DEMO-Relevant Gyrotron Research at KIT. , 2019, , .		1
36	High-efficiency, long-pulse operation of MW-level dual-frequency gyrotron, 84/126GHz, for the TCV Tokamak. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
37	Investigation of a Mini-Channel Cavity Cooling Concept for a 170 GHz, 2 MW Coaxial-Cavity Gyrotron. , 2019, , .		0
38	THALES TH1507 140 GHz 1 MW CW Gyrotron for W7-X Stellarator. , 2019, , .		5
39	Towards Advanced Fusion Gyrotrons: 2018 Update on Activities within EUROfusion. EPJ Web of Conferences, 2019, 203, 04007.	0.3	1
40	Studies towards an upgraded 1.5 MW gyrotron for W7-X. EPJ Web of Conferences, 2019, 203, 04003.	0.3	6
41	Recent Status and Future Prospects of Coaxial-Cavity Gyrotron Development at KIT. EPJ Web of Conferences, 2019, 203, 04005.	0.3	3
42	Report of recent experiments with the European 1 MW, 170 GHz CW and SP prototype gyrotrons for ITER. EPJ Web of Conferences, 2019, 203, 04006.	0.3	5
43	Overview on recent progress in magnetron injection gun theory and design for high power gyrotrons. EPJ Web of Conferences, 2019, 203, 04011.	0.3	6
44	Theoretical Study on the Operation of the EU/KIT TE <sub>34,19</sub> -Mode Coaxial-Cavity Gyrotron at 170/204/238 GHz. EPJ Web of Conferences, 2019, 203, 04014.	0.3	4
45	Metrology techniques for the verification of the alignment of the EU gyrotron prototype for ITER. EPJ Web of Conferences, 2019, 203, 04015.	0.3	2
46	Gyrotron multistage depressed collector based on $E \times B$ drift concept using azimuthal electric field. II: Upgraded designs. Physics of Plasmas, 2019, 26, .	1.9	10
47	Starting Currents for Eigenmodes of a Gyrotron Cavity With Mode Conversion. IEEE Transactions on Electron Devices, 2019, 66, 1552-1558.	3.0	13
48	Automated Generation of High-Order Modes for Tests of Quasi-Optical Systems of Gyrotrons for W7-X Stellarator. , 2019, , .		0
49	Development and Experimental Verification of an XY-Table for the Optimization of the Alignment of High-Power Gyrotrons. IEEE Transactions on Electron Devices, 2019, 66, 1954-1959.	3.0	11
50	Overview of recent gyrotron R&D towards DEMO within EUROfusion Work Package Heating and Current Drive. Nuclear Fusion, 2019, 59, 066014.	3.5	18
51	New trends of gyrotron development at KIT: An overview on recent investigations. Fusion Engineering and Design, 2019, 146, 341-344.	1.9	8
52	Recent experiments with the European 1MW, 170GHz industrial CW and short-pulse gyrotrons for ITER. Fusion Engineering and Design, 2019, 146, 349-352.	1.9	11
53	Computer-Controlled Test System for the Excitation of Very High-Order Modes in Highly Oversized Waveguides. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 257-268.	2.2	9
54	Parasitic Oscillations in Smooth-Wall Circular Symmetric Gyrotron Beam Ducts. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 131-149.	2.2	8

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55	Analysis of an actively-cooled coaxial cavity in a 170 GHz 2 MW gyrotron using the multi-physics computational tool MUCCA. Fusion Engineering and Design, 2019, 146, 74-77.	1.9	2
56	Review of the Innovative H&CD Designs and the Impact of Their Configurations on the Performance of the EU DEMO Fusion Power Plant Reactor. IEEE Transactions on Plasma Science, 2018, 46, 1633-1640.	1.3	11
57	Improved Suppression of Parasitic Oscillations in Gyrotron Beam Tunnels by Proper Selection of the Lossy Ceramic Material. IEEE Transactions on Electron Devices, 2018, 65, 2301-2307.	3.0	16
58	An Improved Diagnostic Device for Magnetron Injection Guns of High-Power Gyrotrons. IEEE Transactions on Electron Devices, 2018, 65, 2294-2300.	3.0	1
59	Numerical Investigation on Spent Beam Deceleration Schemes for Depressed Collector of a High-Power Gyrotron. IEEE Transactions on Electron Devices, 2018, 65, 2321-2326.	3.0	4
60	Numerical Studies on the Influence of Cavity Thermal Expansion on the Performance of a High-Power Gyrotron. IEEE Transactions on Electron Devices, 2018, 65, 2308-2315.	3.0	17
61	Considerations on the selection of operating modes for future coaxial-cavity gyrotrons for DEMO. , 2018, , .		2
62	Mode competition control using triode-type start-up scenario for a 236 GHz gyrotron for DEMO. , 2018, , .		2
63	KIT in-house manufacturing and first operation of a 170 GHz 2 MW longer-pulse coaxial-cavity pre-prototype gyrotron. , 2018, , .		3
64	Benefits of advanced full-wave vector analysis codes for the design of high-power microwave tubes. , 2018, , .		1
65	Gyrotron multistage depressed collector based on $E \times B$ drift concept using azimuthal electric field. I. Basic design. Physics of Plasmas, 2018, 25, .	1.9	19
66	Magnetron Injection Gun for the 2 MW 170 GHz Modular Coaxial Cavity Gyrotron. , 2018, , .		0
67	Optimized Vertical Collector Sweeping for High Power CW Gyrotrons Using Advanced Current Waveforms. , 2018, , .		0
68	Development and First Operation of the 170 GHz, 2 MW Longer-Pulse Coaxial-Cavity Modular Gyrotron Prototype at KIT. , 2018, , .		6
69	2018 Status on KIT Gyrotron Activities. EPJ Web of Conferences, 2018, 187, 01009.	0.3	3
70	Overview of Recent Gyrotron R&D at KIT in View of the EU DEMO. , 2018, , .		0
71	Progress in the development of a multistage depressed collector system for high power gyrotrons. , 2018, , .		1
72	Current Status of the KIT Coaxial-Cavity Long-Pulse Gyrotron and its Key Components. EPJ Web of Conferences, 2018, 187, 01028.	0.3	3

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73	KIT coaxial gyrotron development: from ITER toward DEMO. International Journal of Microwave and Wireless Technologies, 2018, 10, 547-555.	1.9	24
74	Performance analysis of an insert cooling system for long-pulse operation of a coaxial-cavity gyrotron. , 2018, , .		1
75	EU DEMO EC system preliminary conceptual design. Fusion Engineering and Design, 2018, 136, 1173-1177.	1.9	18
76	Study on After Cavity Interaction in a 140-GHz Model TE <sub>0,3</sub> Gyrotron Using 3-D CFDTD PIC Simulation. IEEE Transactions on Plasma Science, 2018, 46, 1937-1942.	1.3	4
77	Experimental verification of the European 1 MW, 170 GHz industrial CW prototype gyrotron for ITER. Fusion Engineering and Design, 2017, 123, 490-494.	1.9	19
78	Heating & current drive efficiencies, TBR and RAMI considerations for DEMO. Fusion Engineering and Design, 2017, 123, 495-499.	1.9	7
79	Evaluation and Influence of Gyrotron Cathode Emission Inhomogeneity. IEEE Transactions on Electron Devices, 2017, 64, 1315-1322.	3.0	9
80	Magnetic field profile analysis for gyrotron experimental investigation. Physics of Plasmas, 2017, 24, .	1.9	15
81	RF Behavior and Launcher Design for a Fast Frequency Step-tunable 236 GHz Gyrotron for DEMO. Frequenz, 2017, 71, .	0.9	4
82	Conceptual design of the EU DEMO EC-system: main developments and R&D achievements. Nuclear Fusion, 2017, 57, 116009.	3.5	21
83	Design considerations for future DEMO gyrotrons: A review on related gyrotron activities within EUROfusion. Fusion Engineering and Design, 2017, 123, 241-246.	1.9	37
84	CW Experiments With the EU 1-MW, 170-GHz Industrial Prototype Gyrotron for ITER at KIT. IEEE Transactions on Electron Devices, 2017, 64, 3885-3892.	3.0	23
85	Simulation of electromagnetic fields scattered from arbitrary shaped electric conductors. EPJ Web of Conferences, 2017, 149, 04016.	0.3	3
86	Investigation on misalignment tolerances of 240-GHz DEMO gyrotrons. , 2017, , .		3
87	Cooling concepts for the CVD diamond brewster-angle window. , 2017, , .		6
88	Developments of fusion gyrotrons for W7-X, ITER and EU DEMO: Ongoing activities and future plans of KIT. , 2017, , .		3
89	KIT coaxial gyrotron development: From ITER towards DEMO. , 2017, , .		6
90	Overview of recent theoretical studies on ExB multistage depressed collector designs for gyrotrons. , 2017, , .		1

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91	Progress of The Experiments With the European 1Mw, 170Ghz Industrial Cw Prototype Gyrotron For Iter. , 2017, , .		0
92	Experimental Results of the EU ITER Prototype Gyrotrons. EPJ Web of Conferences, 2017, 157, 03016.	0.3	2
93	Study on the after cavity interaction in a 140 GHz model TE <sub>0,3</sub> gyrotron using 3D CFDTD PIC simulations. , 2017, , .		0
94	Numerical studies on the influence of cavity thermal expansion on the performance of a high-power gyrotron. , 2017, , .		5
95	Measurements of satellite modes in 140 GHz wendelstein 7-X gyrotrons: An approach to an electronic stability control. , 2017, , .		2
96	First CW experiments with the EU ITER 1 MW, 170 GHz industrial prototype gyrotron. , 2017, , .		5
97	The EC-system of EU DEMO: concepts for a reactor heating system. EPJ Web of Conferences, 2017, 149, 03003.	0.3	4
98	Simulation of gyrotrons using the high-order particle-in-cell code PICLas. EPJ Web of Conferences, 2017, 149, 04019.	0.3	1
99	European research activities towards a future DEMO gyrotron. EPJ Web of Conferences, 2017, 149, 04007.	0.3	3
100	Study on the After Cavity Interaction in a 140 Ghz Gyrotron Using 3D CFDTD PIC Simulations. , 2017, , .		0
101	Heading From W7-X Gyrotrons Towards Gyrotrons for Demo: Research Strategy and Recent Developments at Kit. , 2017, , .		0
102	Recent progress in the upgrade of the TCV EC-system with two 1MW/2s dual-frequency (84/126GHz) gyrotrons. EPJ Web of Conferences, 2017, 157, 03001.	0.3	14
103	Recent Trends in Fusion Gyrotron Development at KIT. EPJ Web of Conferences, 2017, 157, 03017.	0.3	1
104	Multi-physics analysis of a 1 MW gyrotron cavity cooled by mini-channels. Fusion Engineering and Design, 2017, 123, 313-316.	1.9	22
105	Investigation on mode eigenvalue limits for stable 236 GHz, 1 MW-class gyrotron operation. , 2016, , .		2
106	Gyrotronâ€Forschung und â€Entwicklung am KIT. Vakuum in Forschung Und Praxis, 2016, 28, 21-27.	0.1	3
107	Status and experimental results of the European 1 MW, 170 GHz industrial CW prototype Gyrotron for ITER. , 2016, , .		3
108	Proposal of an inverse magnetron injection gun for future hollow-cylindrical-cavity high power gyrotrons. , 2016, , .		6

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109	Manufacturing and tests of the European 1 MW, 170 GHz CW gyrotron prototype for ITER. , 2016, , .		9
110	Progress on the upgrade of the TCV EC-system with two 1MW dual-frequency gyrotrons. , 2016, , .		2
111	Simulations of the experimental operation of the EU 170 GHz, 1 MW short-pulse prototype gyrotron for ITER. , 2016, , .		3
112	Sensitivity analysis of a 140-GHz coaxial gyrotron cavity with corrugations on the inner and outer walls. , 2016, , .		1
113	Electron trapping mechanisms in magnetron injection guns. Physics of Plasmas, 2016, 23, .	1.9	42
114	Direct Voltage Depression Calculation of Arbitrary Electron Beams in Misaligned Coaxial Gyrotron Cavities. IEEE Transactions on Electron Devices, 2016, 63, 3740-3746.	3.0	6
115	Systematic cavity design approach for a multi-frequency gyrotron for DEMO and study of its RF behavior. Physics of Plasmas, 2016, 23, .	1.9	28
116	A fast frequency step-tunable 236 GHz gyrotron design for DEMO. , 2016, , .		3
117	Selectivity Properties of Coaxial Gyrotron Cavities With Mode Converting Corrugations. IEEE Transactions on Electron Devices, 2016, 63, 1299-1306.	3.0	17
118	Influence of emitter surface roughness on high power fusion gyrotron operation. Nuclear Fusion, 2016, 56, 026002.	3.5	10
119	Multi-frequency operation of DEMO gyrotron with realistic electron beam parameters. , 2015, , .		9
120	Status of Europeâ€™s contribution to the ITER EC system. EPJ Web of Conferences, 2015, 87, 04004.	0.3	5
121	Investigations and advanced concepts on gyrotron interaction modeling and simulations. Physics of Plasmas, 2015, 22, .	1.9	6
122	On the present status of the EU demo H&CD systems, technology, functions and mix. , 2015, , .		1
123	Status of the development of the EU 170 GHz/1 MW/CW gyrotron. Fusion Engineering and Design, 2015, 96-97, 149-154.	1.9	33
124	Gyrotron development at KIT: FULGOR test facility and gyrotron concepts for DEMO. Fusion Engineering and Design, 2015, 96-97, 589-592.	1.9	14
125	An Improved Broadband Boundary Condition for the RF Field in Gyrotron Interaction Modeling. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2459-2467.	4.6	4
126	Interaction circuit design and RF behavior of a 236 GHz gyrotron for DEMO. , 2015, , .		8



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127	Efficient Frequency Step-Tunable Megawatt-Class $\pi$ -Band Gyrotron. IEEE Transactions on Electron Devices, 2015, 62, 2327-2332.	3.0	22
128	Optimization of the resonator of a MW-class frequency step-tunable gyrotron. , 2015, , .		0
129	From W7-X towards ITER and beyond: Status and progress in EU fusion gyrotron developments. , 2015, , .		2
130	Recent experimental results of the European 1 MW, 170 GHz short-pulse gyrotron prototype for ITER. , 2015, , .		13
131	Multi-frequency design of a 2 MW coaxial-cavity gyrotron for DEMO. , 2015, , .		5
132	Dual-frequency, 126/84 GHz, 1 MW gyrotron for the upgrade of the TCV EC-system. , 2015, , .		4
133	A generic mode selection strategy for high-order mode gyrotrons operating at multiple frequencies. Nuclear Fusion, 2015, 55, 013005.	3.5	26
134	Frequency-Based Investigation of Charge Neutralization Processes and Thermal Cavity Expansion in Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 797-818.	2.2	21
135	Resonant Modes of Disk-Loaded Cylindrical Structures With Open Boundaries. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1781-1790.	4.6	9
136	Open-ended Coaxial Cavities with Corrugated Inner and Outer Walls. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 461-473.	2.2	10
137	Magnetron injection gun for a 238 GHz 2 MW coaxial-cavity gyrotron. , 2015, , .		6
138	A comparative study on the modeling of dynamic after-cavity interaction in gyrotrons. Physics of Plasmas, 2015, 22, 053106.	1.9	14
139	Studies on boundary conditions for gyrotron interaction modeling. , 2014, , .		1
140	Separation of thermal expansion and beam charge neutralization effects in high power 140 GHz CW gyrotrons. , 2014, , .		2
141	Development of advanced gyrotrons. , 2014, , .		3
142	From Series Production of Gyrotrons for W7-X Toward EU-1 MW Gyrotrons for ITER. IEEE Transactions on Plasma Science, 2014, 42, 1135-1144.	1.3	41
143	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, .	1.9	11
144	Mode selection and resonator design for DEMO gyrotrons. , 2014, , .		5

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145	Design of the EU-1MW gyrotron for ITER. , 2013, , .		7
146	Analysis of mode competition in 10kW/28GHz gyrotron. , 2013, , .		1
147	Design and 3-D Simulations of a 10-kW/28-GHz Gyrotron With a Segmented Emitter Based on Controlled Porosity-Reservoir Cathodes. IEEE Transactions on Plasma Science, 2013, 41, 2717-2723.	1.3	10
148	KIT gyrotron development for future fusion applications. , 2013, , .		3
149	Numerical investigations on the effects of electron beam misalignment on beam-wave interaction in a high-power coaxial gyrotron. , 2013, , .		4
150	Simulation of parasitic gyrotron interaction in beam tunnels. , 2013, , .		1
151	Eigenvalue spectrum of coaxial cavities with corrugations on the inner and the outer wall. , 2013, , .		4
152	Development of Advanced Gyrotrons in Europe. Fusion Science and Technology, 2013, 64, 505-512.	1.1	4
153	Experimental results and recent developments on the EU 2 MW 170 GHz coaxial cavity gyrotron for ITER. EPJ Web of Conferences, 2012, 32, 04009.	0.3	21
154	EURIDICE: A code-package for gyrotron interaction simulations and cavity design. EPJ Web of Conferences, 2012, 32, 04016.	0.3	80
155	Experimental study from linear to chaotic regimes on a terahertz-frequency gyrotron oscillator. Physics of Plasmas, 2012, 19, .	1.9	82
156	On the numerical scheme employed in gyrotron interaction simulations. EPJ Web of Conferences, 2012, 32, 04017.	0.3	1
157	Gyrotron parasitic-effects studies using the time-dependent self-consistent monomode code TWANG. , 2011, , .		12
158	Azimuthal Mode Coupling in Coaxial Waveguides and Cavities With Longitudinally Corrugated Insert. IEEE Transactions on Plasma Science, 2011, 39, 1213-1221.	1.3	24
159	Gyrotron interaction simulations with tapered magnetostatic field. , 2010, , .		1
160	The contribution of higher-order spatial harmonics in eigenvalues and ohmic losses calculations in coaxial corrugated cavities. , 2010, , .		1
161	Simulation and experimental investigations on dynamic after cavity interaction (ACI). , 2010, , .		11
162	Improving gyrotron interaction calculations. , 2009, , .		1

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163	On the effect of the approximations used in gyrotron interaction calculations. , 2009, , .		1
164	Beam-Wave Interaction in Corrugated Structures in the Small-Signal Regime. IEEE Transactions on Plasma Science, 2009, 37, 2020-2030.	1.3	14
165	Design of a frequency-tunable gyrotron for DNP-enhanced NMR spectroscopy. , 2009, , .		14
166	First Experimental Results from the European Union 2-MW Coaxial Cavity ITER Gyrotron Prototype. Fusion Science and Technology, 2009, 55, 204-212.	1.1	66
167	Parameterization technique for the preliminary gun design of the EU 170GHz 1MW conventional cavity gyrotron for ITER. , 2008, , .		5
168	Status of development of the 2MW, 170GHz coaxial-cavity gyrotron for ITER. , 2008, , .		1
169	A New Concept for the Collection of an Electron Beam Configured by an Externally Applied Axial Magnetic Field. IEEE Transactions on Plasma Science, 2008, 36, 469-480.	1.3	59
170	Gyrotron mode competition calculations: Investigations on the choice of numerical parameters. , 2008, , .		3
171	A new concept for the collection of an electron beam guided by an externally applied magnetic field. , 2007, , .		0
172	Mode competition in the 170 GHz coaxial gyrotron cavity for ITER. , 2007, , .		3
173	Possible excitation of radial satellites in high-power gyrotrons. , 2007, , .		2
174	Dynamics and Output Momentum Spectrum of Electrons Under Harmonic Resonance in Gyrotron Resonators. AIP Conference Proceedings, 2006, , .	0.4	1
175	Coaxial Gyrotron Cavities with Resistive Corrugated Insert for Powerful Second-Harmonic Operation. AIP Conference Proceedings, 2006, , .	0.4	8
176	Hamiltonian map description of electron dynamics in gyrotrons. IEEE Transactions on Plasma Science, 2006, 34, 673-680.	1.3	6
177	Numerical Study of the Hamiltonian Gyrotron Map. , 2006, , .		0
178	Chaotic electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 043104.	1.9	6
179	Canonical perturbation theory for complex electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 113102.	1.9	9
180	Design Considerations for Powerful Continuous-Wave Second-Cyclotron-Harmonic Coaxial-Cavity Gyrotrons. IEEE Transactions on Plasma Science, 2004, 32, 917-928.	1.3	34