

Konstantinos A Avramidis

List of Publications by Year in descending order

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180
papers

1,607
citations

361413

20
h-index

434195

31
g-index

180
all docs

180
docs citations

180
times ranked

615
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study from linear to chaotic regimes on a terahertz-frequency gyrotron oscillator. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	82
2	EURIDICE: A code-package for gyrotron interaction simulations and cavity design. <i>EPJ Web of Conferences</i> , 2012, 32, 04016.	0.3	80
3	First Experimental Results from the European Union 2-MW Coaxial Cavity ITER Gyrotron Prototype. <i>Fusion Science and Technology</i> , 2009, 55, 204-212.	1.1	66
4	A New Concept for the Collection of an Electron Beam Configured by an Externally Applied Axial Magnetic Field. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 469-480.	1.3	59
5	Electron trapping mechanisms in magnetron injection guns. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	42
6	From Series Production of Gyrotrons for W7-X Toward EU-1 MW Gyrotrons for ITER. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1135-1144.	1.3	41
7	Design considerations for future DEMO gyrotrons: A review on related gyrotron activities within EUROfusion. <i>Fusion Engineering and Design</i> , 2017, 123, 241-246.	1.9	37
8	Design Considerations for Powerful Continuous-Wave Second-Cyclotron-Harmonic Coaxial-Cavity Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 917-928.	1.3	34
9	Status of the development of the EU 170 GHz/1 MW/CW gyrotron. <i>Fusion Engineering and Design</i> , 2015, 96-97, 149-154.	1.9	33
10	Systematic cavity design approach for a multi-frequency gyrotron for DEMO and study of its RF behavior. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	28
11	A generic mode selection strategy for high-order mode gyrotrons operating at multiple frequencies. <i>Nuclear Fusion</i> , 2015, 55, 013005.	3.5	26
12	Azimuthal Mode Coupling in Coaxial Waveguides and Cavities With Longitudinally Corrugated Insert. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 1213-1221.	1.3	24
13	KIT coaxial gyrotron development: from ITER toward DEMO. <i>International Journal of Microwave and Wireless Technologies</i> , 2018, 10, 547-555.	1.9	24
14	CW Experiments With the EU 1-MW, 170-GHz Industrial Prototype Gyrotron for ITER at KIT. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3885-3892.	3.0	23
15	Efficient Frequency Step-Tunable Megawatt-Class π -Band Gyrotron. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 2327-2332.	3.0	22
16	Multi-physics analysis of a 1 MW gyrotron cavity cooled by mini-channels. <i>Fusion Engineering and Design</i> , 2017, 123, 313-316.	1.9	22
17	Status and future development of Heating and Current Drive for the EU DEMO. <i>Fusion Engineering and Design</i> , 2022, 180, 113159.	1.9	22
18	Experimental results and recent developments on the EU 2 MW 170 GHz coaxial cavity gyrotron for ITER. <i>EPJ Web of Conferences</i> , 2012, 32, 04009.	0.3	21

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19	Frequency-Based Investigation of Charge Neutralization Processes and Thermal Cavity Expansion in Gyrotrons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015, 36, 797-818.	2.2	21
20	Conceptual design of the EU DEMO EC-system: main developments and R&D achievements. <i>Nuclear Fusion</i> , 2017, 57, 116009.	3.5	21
21	Experimental verification of the European 1 MW, 170 GHz industrial CW prototype gyrotron for ITER. <i>Fusion Engineering and Design</i> , 2017, 123, 490-494.	1.9	19
22	Gyrotron multistage depressed collector based on $E \times B$ drift concept using azimuthal electric field. I. Basic design. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	19
23	EU DEMO EC system preliminary conceptual design. <i>Fusion Engineering and Design</i> , 2018, 136, 1173-1177.	1.9	18
24	Overview of recent gyrotron R&D towards DEMO within EUROfusion Work Package Heating and Current Drive. <i>Nuclear Fusion</i> , 2019, 59, 066014.	3.5	18
25	Integration concept of an Electron Cyclotron System in DEMO. <i>Fusion Engineering and Design</i> , 2021, 168, 112653.	1.9	18
26	Selectivity Properties of Coaxial Gyrotron Cavities With Mode Converting Corrugations. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 1299-1306.	3.0	17
27	Numerical Studies on the Influence of Cavity Thermal Expansion on the Performance of a High-Power Gyrotron. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2308-2315.	3.0	17
28	Improved Suppression of Parasitic Oscillations in Gyrotron Beam Tunnels by Proper Selection of the Lossy Ceramic Material. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2301-2307.	3.0	16
29	Improved Mode Selection in Coaxial Cavities for Subterahertz Second-Harmonic Gyrotrons. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 2933-2939.	3.0	16
30	Magnetic field profile analysis for gyrotron experimental investigation. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	15
31	Beam-Wave Interaction in Corrugated Structures in the Small-Signal Regime. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 2020-2030.	1.3	14
32	Design of a frequency-tunable gyrotron for DNP-enhanced NMR spectroscopy. , 2009, , .		14
33	Gyrotron development at KIT: FULGOR test facility and gyrotron concepts for DEMO. <i>Fusion Engineering and Design</i> , 2015, 96-97, 589-592.	1.9	14
34	A comparative study on the modeling of dynamic after-cavity interaction in gyrotrons. <i>Physics of Plasmas</i> , 2015, 22, 053106.	1.9	14
35	Recent progress in the upgrade of the TCV EC-system with two 1MW/2s dual-frequency (84/126GHz) gyrotrons. <i>EPJ Web of Conferences</i> , 2017, 157, 03001.	0.3	14
36	Recent experimental results of the European 1 MW, 170 GHz short-pulse gyrotron prototype for ITER. , 2015, , .		13

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37	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
38	Starting Currents for Eigenmodes of a Gyrotron Cavity With Mode Conversion. IEEE Transactions on Electron Devices, 2019, 66, 1552-1558.	3.0	13
39	Gyrotron parasitic-effects studies using the time-dependent self-consistent monomode code TWANG. , 2011, , .		12
40	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
41	Simulation and experimental investigations on dynamic after cavity interaction (ACI). , 2010, , .		11
42	On the dependence of the efficiency of a 240â€‰GHz high-power gyrotron on the displacement of the electron beam and on the azimuthal index. Physics of Plasmas, 2014, 21, .	1.9	11
43	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
44	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
45	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
46	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
47	Open-ended Coaxial Cavities with Corrugated Inner and Outer Walls. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 461-473.	2.2	10
48	Influence of emitter surface roughness on high power fusion gyrotron operation. Nuclear Fusion, 2016, 56, 026002.	3.5	10
49	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
50	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
51	Triode magnetron injection gun for the KIT 2 MW 170 GHz coaxial cavity gyrotron. Physics of Plasmas, 2020, 27, .	1.9	10
52	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
53	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
54	Canonical perturbation theory for complex electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 113102.	1.9	9

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55	Multi-frequency operation of DEMO gyrotron with realistic electron beam parameters. , 2015, , .		9
56	Resonant Modes of Disk-Loaded Cylindrical Structures With Open Boundaries. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1781-1790.	4.6	9
57	Manufacturing and tests of the European 1 MW, 170 GHz CW gyrotron prototype for ITER. , 2016, , .		9
58	Evaluation and Influence of Gyrotron Cathode Emission Inhomogeneity. IEEE Transactions on Electron Devices, 2017, 64, 1315-1322.	3.0	9
59	Multiphysics Modeling of Insert 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
60	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
61	Towards large area CVD diamond disks for Brewster-angle windows. Fusion Engineering and Design, 2020, 157, 111818.	1.9	9
62	Coaxial Gyrotron Cavities with Resistive Corrugated Insert for Powerful Second-Harmonic Operation. AIP Conference Proceedings, 2006, , .	0.4	8
63	Interaction circuit design and RF behavior of a 236 GHz gyrotron for DEMO. , 2015, , .		8
64	Manufacturing and Test of the 1 MW Long-Pulse 84/126 GHz Dual-Frequency Gyrotron for TCV. , 2019, , .		8
65	New trends of gyrotron development at KIT: An overview on recent investigations. Fusion Engineering and Design, 2019, 146, 341-344.	1.9	8
66	Parasitic Oscillations in Smooth-Wall Circular Symmetric Gyrotron Beam Ducts. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 131-149.	2.2	8
67	Design of the EU-1MW gyrotron for ITER. , 2013, , .		7
68	Heating & current drive efficiencies, TBR and RAMI considerations for DEMO. Fusion Engineering and Design, 2017, 123, 495-499.	1.9	7
69	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
70	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
71	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
72	Chaotic electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 043104.	1.9	6

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73	Hamiltonian map description of electron dynamics in gyrotrons. IEEE Transactions on Plasma Science, 2006, 34, 673-680.	1.3	6
74	Investigations and advanced concepts on gyrotron interaction modeling and simulations. Physics of Plasmas, 2015, 22, .	1.9	6
75	Magnetron injection gun for a 238 GHz 2 MW coaxial-cavity gyrotron. , 2015, , .		6
76	Proposal of an inverse magnetron injection gun for future hollow-cylindrical-cavity high power gyrotrons. , 2016, , .		6
77	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
78	Cooling concepts for the CVD diamond brewster-angle window. , 2017, , .		6
79	KIT coaxial gyrotron development: From ITER towards DEMO. , 2017, , .		6
80	Development and First Operation of the 170 GHz, 2 MW Longer-Pulse Coaxial-Cavity Modular Gyrotron Prototype at KIT. , 2018, , .		6
81	High-efficiency, long-pulse operation of MW-level dual-frequency gyrotron, 84/126GHz, for the TCV Tokamak. , 2019, , .		6
82	Studies towards an upgraded 1.5 MW gyrotron for W7-X. EPJ Web of Conferences, 2019, 203, 04003.	0.3	6
83	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
84	Collective Thomson Scattering Diagnostic for Wendelstein 7-X at 175 GHz. Journal of Instrumentation, 2020, 15, C05035-C05035.	1.2	6
85	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
86	Parameterization technique for the preliminary gun design of the EU 170GHz 1MW conventional cavity gyrotron for ITER. , 2008, , .		5
87	Mode selection and resonator design for DEMO gyrotrons. , 2014, , .		5
88	Status of Europeâ€™s contribution to the ITER EC system. EPJ Web of Conferences, 2015, 87, 04004.	0.3	5
89	Multi-frequency design of a 2 MW coaxial-cavity gyrotron for DEMO. , 2015, , .		5
90	Numerical studies on the influence of cavity thermal expansion on the performance of a high-power gyrotron. , 2017, , .		5

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91	First CW experiments with the EU ITER 1 MW, 170 GHz industrial prototype gyrotron. , 2017, , .		5
92	Automated mode recovery for gyrotrons demonstrated at Wendelstein 7-X. Fusion Engineering and Design, 2019, 148, 111258.	1.9	5
93	THALES TH1507 140 GHz 1 MW CW Gyrotron for W7-X Stellarator. , 2019, , .		5
94	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
95	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
96	Numerical investigations on the effects of electron beam misalignment on beam-wave interaction in a high-power coaxial gyrotron. , 2013, , .		4
97	Eigenvalue spectrum of coaxial cavities with corrugations on the inner and the outer wall. , 2013, , .		4
98	Development of Advanced Gyrotrons in Europe. Fusion Science and Technology, 2013, 64, 505-512.	1.1	4
99	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
100	Dual-frequency, 126/84 GHz, 1 MW gyrotron for the upgrade of the TCV EC-system. , 2015, , .		4
101	RF Behavior and Launcher Design for a Fast Frequency Step-tunable 236 GHz Gyrotron for DEMO. Frequenz, 2017, 71, .	0.9	4
102	The EC-system of EU DEMO: concepts for a reactor heating system. EPJ Web of Conferences, 2017, 149, 03003.	0.3	4
103	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
104	Study on After Cavity Interaction in a 140-GHz Model TE _{0,3} Gyrotron Using 3-D CFDTD PIC Simulation. IEEE Transactions on Plasma Science, 2018, 46, 1937-1942.	1.3	4
105	Theoretical Study on the Operation of the EU/KIT TE _{34,19} -Mode Coaxial-Cavity Gyrotron at 170/204/238 GHz. EPJ Web of Conferences, 2019, 203, 04014.	0.3	4
106	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
107	Mode competition in the 170 GHz coaxial gyrotron cavity for ITER. , 2007, , .		3
108	Gyrotron mode competition calculations: Investigations on the choice of numerical parameters. , 2008, , .		3

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109	KIT gyrotron development for future fusion applications. , 2013, , .		3
110	Development of advanced gyrotrons. , 2014, , .		3
111	Gyrotronâ€Forschung und â€Entwicklung am KIT. Vakuum in Forschung Und Praxis, 2016, 28, 21-27.	0.1	3
112	Status and experimental results of the European 1 MW, 170 GHz industrial CW prototype Gyrotron for ITER. , 2016, , .		3
113	Simulations of the experimental operation of the EU 170 GHz, 1 MW short-pulse prototype gyrotron for ITER. , 2016, , .		3
114	A fast frequency step-tunable 236 GHz gyrotron design for DEMO. , 2016, , .		3
115	Simulation of electromagnetic fields scattered from arbitrary shaped electric conductors. EPJ Web of Conferences, 2017, 149, 04016.	0.3	3
116	Investigation on misalignment tolerances of 240-GHz DEMO gyrotrons. , 2017, , .		3
117	Developments of fusion gyrotrons for W7-X, ITER and EU DEMO: Ongoing activities and future plans of KIT. , 2017, , .		3
118	European research activities towards a future DEMO gyrotron. EPJ Web of Conferences, 2017, 149, 04007.	0.3	3
119	KIT in-house manufacturing and first operation of a 170 GHz 2 MW longer-pulse coaxial-cavity pre-prototype gyrotron. , 2018, , .		3
120	2018 Status on KIT Gyrotron Activities. EPJ Web of Conferences, 2018, 187, 01009.	0.3	3
121	Current Status of the KIT Coaxial-Cavity Long-Pulse Gyrotron and its Key Components. EPJ Web of Conferences, 2018, 187, 01028.	0.3	3
122	Recent Status and Future Prospects of Coaxial-Cavity Gyrotron Development at KIT. EPJ Web of Conferences, 2019, 203, 04005.	0.3	3
123	Megawatt power generation of the dual-frequency gyrotron for TCV at 84 and 126â€GHz, in long pulses. AIP Conference Proceedings, 2020, , .	0.4	3
124	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
125	Possible excitation of radial satellites in high-power gyrotrons. , 2007, , .		2
126	Separation of thermal expansion and beam charge neutralization effects in high power 140 GHz CW gyrotrons. , 2014, , .		2

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127	From W7-X towards ITER and beyond: Status and progress in EU fusion gyrotron developments. , 2015, , .		2
128	Investigation on mode eigenvalue limits for stable 236 GHz, 1 MW-class gyrotron operation. , 2016, , .		2
129	Progress on the upgrade of the TCV EC-system with two 1MW dual-frequency gyrotrons. , 2016, , .		2
130	Experimental Results of the EU ITER Prototype Gyrotrons. EPJ Web of Conferences, 2017, 157, 03016.	0.3	2
131	Measurements of satellite modes in 140 GHz wendelstein 7-X gyrotrons: An approach to an electronic stability control. , 2017, , .		2
132	Considerations on the selection of operating modes for future coaxial-cavity gyrotrons for DEMO. , 2018, , .		2
133	Mode competition control using triode-type start-up scenario for a 236 GHz gyrotron for DEMO. , 2018, , .		2
134	From W7-X Towards ITER and Beyond: 2019 Status on EU Fusion Gyrotron Developments. , 2019, , .		2
135	Design Studies of Mini-Channel Cavity Cooling for a 170 GHz, 2 MW Coaxial-Cavity Gyrotron. , 2019, , .		2
136	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
137	Analysis of an actively-cooled coaxial cavity in a 170â€™%GHz 2â€™%MW gyrotron using the multi-physics computational tool MUCCA. Fusion Engineering and Design, 2019, 146, 74-77.	1.9	2
138	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
139	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
140	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
141	Dynamics and Output Momentum Spectrum of Electrons Under Harmonic Resonance in Gyrotron Resonators. AIP Conference Proceedings, 2006, , .	0.4	1
142	Status of development of the 2MW, 170GHz coaxial-cavity gyrotron for ITER. , 2008, , .		1
143	Improving gyrotron interaction calculations. , 2009, , .		1
144	On the effect of the approximations used in gyrotron interaction calculations. , 2009, , .		1

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145	Gyrotron interaction simulations with tapered magnetostatic field. , 2010, , .		1
146	The contribution of higher-order spatial harmonics in eigenvalues and ohmic losses calculations in coaxial corrugated cavities. , 2010, , .		1
147	On the numerical scheme employed in gyrotron interaction simulations. EPJ Web of Conferences, 2012, 32, 04017.	0.3	1
148	Analysis of mode competition in 10kW/28GHz gyrotron. , 2013, , .		1
149	Simulation of parasitic gyrotron interaction in beam tunnels. , 2013, , .		1
150	Studies on boundary conditions for gyrotron interaction modeling. , 2014, , .		1
151	On the present status of the EU demo H&CD systems, technology, functions and mix. , 2015, , .		1
152	Sensitivity analysis of a 140-GHz coaxial gyrotron cavity with corrugations on the inner and outer walls. , 2016, , .		1
153	Overview of recent theoretical studies on ExB multistage depressed collector designs for gyrotrons. , 2017, , .		1
154	Simulation of gyrotrons using the high-order particle-in-cell code PICLas. EPJ Web of Conferences, 2017, 149, 04019.	0.3	1
155	Recent Trends in Fusion Gyrotron Development at KIT. EPJ Web of Conferences, 2017, 157, 03017.	0.3	1
156	An Improved Diagnostic Device for Magnetron Injection Guns of High-Power Gyrotrons. IEEE Transactions on Electron Devices, 2018, 65, 2294-2300.	3.0	1
157	Benefits of advanced full-wave vector analysis codes for the design of high-power microwave tubes. , 2018, , .		1
158	Progress in the development of a multistage depressed collector system for high power gyrotrons. , 2018, , .		1
159	Performance analysis of an insert cooling system for long-pulse operation of a coaxial-cavity gyrotron. , 2018, , .		1
160	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
161	DEMO-Relevant Gyrotron Research at KIT. , 2019, , .		1
162	Towards Advanced Fusion Gyrotrons: 2018 Update on Activities within EUROfusion. EPJ Web of Conferences, 2019, 203, 04007.	0.3	1

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163	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
164	Recent Development of a 1.5 MW, 140 GHz Continuous-Wave Gyrotron for the Upgraded ECRH System at W7-X. , 2020, , .		1
165	Theoretical Study on the Possibility for Stepwise Tuning of the Frequency of the KIT 2 MW 170/204 GHz Coaxial-Cavity Gyrotron. , 2020, , .		1
166	Performance Expectation and Preparation of the First Experimental Campaign of the KIT 2 MW 170/204 GHz Coaxial-Cavity Gyrotron. , 2021, , .		1
167	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
168	Numerical Study of the Hamiltonian Gyrotron Map. , 2006, , .		0
169	A new concept for the collection of an electron beam guided by an externally applied magnetic field. , 2007, , .		0
170	Optimization of the resonator of a MW-class frequency step-tunable gyrotron. , 2015, , .		0
171	Progress of The Experiments With the European 1Mw, 170Ghz Industrial Cw Prototype Gyrotron For Iter. , 2017, , .		0
172	Study on the after cavity interaction in a 140 GHz model TE _{0,3} gyrotron using 3D CFDTD PIC simulations. , 2017, , .		0
173	Study on the After Cavity Interaction in a 140 Ghz Gyrotron Using 3D CFDTD PIC Simulations. , 2017, , .		0
174	Heading From W7-X Gyrotrons Towards Gyrotrons for Demo: Research Strategy and Recent Developments at Kit. , 2017, , .		0
175	Magnetron Injection Gun for the 2 MW 170 GHz Modular Coaxial Cavity Gyrotron. , 2018, , .		0
176	Optimized Vertical Collector Sweeping for High Power CW Gyrotrons Using Advanced Current Waveforms. , 2018, , .		0
177	Overview of Recent Gyrotron R&D at KIT in View of the EU DEMO. , 2018, , .		0
178	Investigation of a Mini-Channel Cavity Cooling Concept for a 170 GHz, 2 MW Coaxial-Cavity Gyrotron. , 2019, , .		0
179	Automated Generation of High-Order Modes for Tests of Quasi-Optical Systems of Gyrotrons for W7-X Stellarator. , 2019, , .		0
180	Theoretical Investigation on Injection Locking of the EU 170 GHz 2 MW TE _{34,19} -Mode Coaxial-Cavity Gyrotron. , 2021, , .		0