Mv Kartikeyan

List of Publications by Year in Descending Order

155 papers	1,124 citations	16 h-index	26 g-index
228 ext. papers	1,519 ext. citations	1.3 avg, IF	4.75 L-index

#	Paper	IF	Citations
155	Investigations on RF Behavior of a V-Band Second Harmonic Gyrotron for 100/200 kW Operation. *IEEE Transactions on Plasma Science*, **2022**, 1-7	1.3	0
154	Realistic Design Studies on a 300-GHz, 1-MW, DEMO-Class Conventional-Cavity Gyrotron. *IEEE Transactions on Electron Devices*, **2022**, 1-9	2.9	1
153	Metamaterial-inspired tri-band antenna for 5G-C and Ka band applications. *Microwave and Optical Technology Letters*, **2021**, 63, 2423-2429	1.2	3
152	Compact triple-band bandpass filter using multi-mode HMSIW cavity and half-mode DGS. *International Journal of Microwave and Wireless Technologies*, **2021**, 13, 103-110	0.8	0
151	Investigation of electron optical gun and beam collector for 42 GHz, 200 kW second harmonic gyrotron. *Journal of Electromagnetic Waves and Applications*, **2021**, 35, 672-689	1.3	
150	A narrow band and high selectivity half-mode substrate integrated waveguide bandpass filter with interdigital slots. *Microwave and Optical Technology Letters*, **2021**, 63, 1180-1186	1.2	
149	A review on the compact modeling of parasitic capacitance: from basic to advanced FETs. *Journal of Computational Electronics*, **2020**, 19, 1116-1125	1.8	4
148	Investigations on W-Band Second Harmonic Gyrotron for 50/100-kW Operation. *IEEE Transactions on Plasma Science*, **2020**, 48, 4127-4133	1.3	2
147	Dual band circular polarized bow tie slotted patch antenna over high impedance surface for WiMAX application. *International Journal of Microwave and Wireless Technologies*, **2020**, 12, 303-308	0.8	2
146	Tunable PDEBG using ferrite-based metasurface for WiMaX application. *International Journal of RF and Microwave Computer-Aided Engineering*, **2020**, 30, e22111	1.5	
145	Widely separated dual-band half-mode SIW bandpass filter. *International Journal of RF and Microwave Computer-Aided Engineering*, **2020**, 30, e22360	1.5	2
144	An Improved Analytical Model of Outer Fringe Capacitance of Multifin Diamond Shaped Raised Source/Drain FinFET. *Silicon*, **2020**, 1	2.4	
143	Electrical and Thermal Design of a W -Band Gyrotron Interaction Cavity. *IEEE Transactions on Plasma Science*, **2019**, 47, 3155-3159	1.3	7
142	A Hybridized Fuzzy-Neural Predictive Intelligent (HFNPI) Modelling Approach-based Underlap FinFET Model. *IETE Journal of Research*, **2019**, 65, 771-779	0.9	3
141	Effect of Insert Misalignment on a Triangular Corrugated Coaxial Cavity Gyrotron. *IEEE Transactions on Electron Devices*, **2019**, 66, 4029-4035	2.9	1
140	Full-wave Analysis of Plasma-Loaded Coaxial Cavity with Wedge-Shaped Corrugations on the Insert. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2019**, 40, 856-867	2.2	
139	Development of 42-GHz, 200-kW Gyrotron for Indian Tokamak System Tested in the Regime of Short Pulselength. *IEEE Transactions on Plasma Science*, **2019**, 47, 4658-4663	1.3	4

138	Design Studies of a 3-MW, Multifrequency (170/204/236 GHz) DEMO Class Triangular Corrugated Coaxial Cavity Gyrotron. *IEEE Transactions on Electron Devices*, **2019**, 66, 702-708	2.9	3
137	Offset planar MIMO antenna for omnidirectional radiation patterns. *International Journal of RF and Microwave Computer-Aided Engineering*, **2018**, 28, e21274	1.5	12
136	Analysis of Plasma Loaded Conventional and Coaxial Cavity With Wedge-Shaped Corrugations on the Insert. *IEEE Transactions on Electron Devices*, **2018**, 65, 2614-2619	2.9	1
135	Output System of A 220-/247.5-/275-GHz, 1.0-MW, Triple-Frequency Regime Gyrotron. *IEEE Transactions on Electron Devices*, **2018**, 65, 1558-1563	2.9	
134	Four Element Planar MIMO Antenna Design for Long-Term Evolution Operation. *IETE Journal of Research*, **2018**, 64, 367-373	0.9	16
133	Energy distribution of electrons from cathode in magnetron injection gun **2018**,		1
132	Compact Antennas for High Data Rate Communication. *Springer Topics in Signal Processing*, **2018**,	1.1	5
131	POLARIZATION MATCHED RADIATING ARRAY FOR ELECTRONICALLY STEERED PHASED ARRAY ANTENNA. *Progress in Electromagnetics Research Letters*, **2018**, 79, 115-120	0.5	
130	FinFETs for RF Applications: A Literature review **2018**,		2
129	Compact QMSIW bandpass filter using composite right/left-handed transmission line in grounded coplanar waveguide. *International Journal of RF and Microwave Computer-Aided Engineering*, **2018**, 28, e21596	1.5	1
128	A multilayer dual wideband circularly polarized microstrip antenna with DGS for WLAN/Bluetooth/ZigBee/Wi-Max/ IMT band applications. *International Journal of Microwave and Wireless Technologies*, **2017**, 9, 317-325	0.8	7
127	Successive Conformal Mapping Technique to Extract Inner Fringe Capacitance of Underlap DG-FinFET and Its Variations With Geometrical Parameters. *IEEE Transactions on Electron Devices*, **2017**, 64, 384-391	2.9	7
126	A low profile planar MIMO antenna with polarization diversity for LTE 1800/1900 applications. *Microwave and Optical Technology Letters*, **2017**, 59, 533-538	1.2	16
125	A 220/247.5/275-GHz, 1.0-MW, Triple Frequency Regime Gyrotron. *IEEE Transactions on Electron Devices*, **2017**, 64, 1774-1780	2.9	5
124	MIMO antennas with diversity and mutual coupling reduction techniques: a review. *International Journal of Microwave and Wireless Technologies*, **2017**, 9, 1763-1780	0.8	49
123	Full Wave Analysis of Plasma Loaded Coaxial Gyrotron Cavity With Triangular Corrugations on the Insert. *IEEE Transactions on Electron Devices*, **2017**, 64, 2369-2375	2.9	1
122	Full Wave Analysis of Coaxial Gyrotron Cavity With Triangular Corrugations on the Insert. *IEEE Transactions on Electron Devices*, **2017**, 64, 1756-1762	2.9	9
121	Linearization of traveling-wave tube amplifiers using digitally supported signal injection technique. *Journal of Electromagnetic Waves and Applications*, **2017**, 31, 1802-1815	1.3	3

120	Design and realization of microstrip filters with new defected ground structure (DGS) **2017**, 20, 679-686		8
119	Design of modulated artificial magnetic conductor metasurfaces for RCS reduction of patch antenna **2017**,		1
118	Electron Gun and Output Coupling System for a 220-/251.5-GHz, 2-MW Triangular Corrugated Coaxial Cavity Gyrotron. *IEEE Transactions on Electron Devices*, **2017**, 64, 5134-5140	2.9	0
117	RF Behavior of a 220/251.5-GHz, 2-MW, Triangular Corrugated Coaxial Cavity Gyrotron. *IEEE Transactions on Electron Devices*, **2017**, 64, 4287-4294	2.9	4
116	Design and characterization of an efficient multi-layered circularly polarized microstrip antenna. *International Journal of Microwave and Wireless Technologies*, **2016**, 8, 1101-1109	0.8	2
115	Improved DGS parameter extraction method for the polarization purity of circularly polarized microstrip antenna. *International Journal of RF and Microwave Computer-Aided Engineering*, **2016**, 26, 773-783	1.5	5
114	I/O System for A 77/154-GHz, 0.5-MW Dual Regime Gyrotron. *IEEE Transactions on Electron Devices*, **2016**, 63, 4459-4465	2.9	3
113	A review of Analytical thermal noise model **2016**,		1
112	Metamaterial inspired CSSRR design for WLAN microstrip patch antenna **2016**,		1
111	Extended RF Behavior of a 77/154 GHz, 0.5 MW Continuous Wave Gyrotron. *IEEE Transactions on Electron Devices*, **2016**, 63, 2538-2543	2.9	3
110	MIMO antenna with omnidirectional pattern diversity. *Electronics Letters*, **2016**, 52, 102-104	1.1	11
109	CIRCULARLY POLARIZED 2□ MIMO ANTENNA FOR WLAN APPLICATIONS. *Progress in Electromagnetics Research C*, **2016**, 66, 97-107	0.9	45
108	A 2□ DUAL-BAND MIMO ANTENNA WITH POLARIZATION DIVERSITY FOR WIRELESS APPLICATIONS. *Progress in Electromagnetics Research C*, **2016**, 61, 91-103	0.9	45
107	Proximity coupled MIMO antenna for WLAN/WiMAX applications **2016**,		2
106	Time-domain performance of band-notch techniques in UWB antenna **2016**,		2
105	Analysis of Plasma-Loaded Noncorrugated and Triangular Corrugated Coaxial Cavity. *IEEE Transactions on Electron Devices*, **2016**, 63, 4060-4066	2.9	4
104	Transient response of dual-band-notched ultra-wideband antenna. *International Journal of Microwave and Wireless Technologies*, **2015**, 7, 61-67	0.8	2
103	Continuously tunable band-notched ultrawideband antenna. *Microwave and Optical Technology Letters*, **2015**, 57, 924-928	1.2	3

102	Design and testing of a compact circularly polarised microstrip antenna with fractal defected ground structure for L-band applications. *IET Microwaves, Antennas and Propagation*, **2015**, 9, 1179-1185	1.6	48
101	Output System for a 170-GHz/1.5-MW Continuous Wave Gyrotron Operating in the TE28,12 Mode. *IEEE Transactions on Plasma Science*, **2015**, 43, 391-397	1.3	5
100	Pattern diversity based MIMO antenna for low mutual coupling **2015**,		5
99	Tri-band printed MIMO antenna working on 1.7, 2.7 and 3.7 GHz **2015**,		1
98	Realization of circularly polarized microstrip antenna using fractal **2015**,		2
97	Analysis of band-notch techniques in UWB antenna for impulse radio communications **2015**,		1
96	Design of a compact MIMO antenna with polarization diversity technique for wireless communication **2015**,		3
95	Realization of circular polarized microstrip antenna with Arc-slot fractal geometry **2015**,		1
94	A stacked sierpinski gasket fractal antenna with a defected ground structure for UWB/WLAN/RADIO astronomy/STM Link applications. *Microwave and Optical Technology Letters*, **2015**, 57, 2786-2792	1.2	8
93	Capacity estimation of a comapct pattern diversity MIMO antenna **2015**,		1
92	Analysis of a Triangular Corrugated Coaxial Cavity for Megawatt-Class Gyrotron. *IEEE Transactions on Electron Devices*, **2015**, 62, 2333-2338	2.9	9
91	RF behavior of a 42/84 GHz, 0.5 MW, dual frequency gyrotron **2015**,		2
90	Novel Printed MIMO Antenna With Pattern and Polarization Diversity. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 739-742	3.8	46
89	A Compact Dual-Band Antenna With Omnidirectional Radiation Pattern. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 503-506	3.8	26
88	Design of 170 GHz, 1.5-MW Conventional Cavity Gyrotron for Plasma Heating. *IEEE Transactions on Plasma Science*, **2014**, 42, 1522-1528	1.3	18
87	Novel dual-band multistrip monopole antenna with defected ground structure for WLAN/IMT/BLUETOOTH/WIMAX applications. *International Journal of Microwave and Wireless Technologies*, **2014**, 6, 93-100	0.8	17
86	Design of single feed dual band dual polarized microstrip antenna with defected ground structure for aeronautical and radio navigation applications **2014**,		6
85	Optimization and Development of O-shaped Triple-band Microstrip Patch Antenna for Wireless Communication Applications. *IETE Journal of Research*, **2014**, 60, 95-105	0.9	6

84	Analysis of ultra wide band dielectric resonator antenna with band notch for WLAN communication **2014**,		1
83	Fractal Apertures in Waveguides, Conducting Screens and Cavities. *Springer Series in Optical Sciences*, **2014**,	0.5	5
82	Field analysis of a novel interaction structure for high power sub-THz wave coaxial cavity gyrotrons **2014**,		1
81	Design of compact circular disc circularly polarized antenna with Koch curve fractal defected ground structure **2014**,		7
80	Band-notched UWB antenna with raised cosine-tapered ground plane. *Microwave and Optical Technology Letters*, **2014**, 56, 2576-2579	1.2	5
79	Fractal Frequency Selective Diaphragms in Rectangular Waveguide. *Springer Series in Optical Sciences*, **2014**, 61-94	0.5	
78	Method of Moment Formulation of Coupling Through Apertures. *Springer Series in Optical Sciences*, **2014**, 27-60	0.5	
77	Radiation from Rectangular Waveguide-Fed Fractal Aperture Antennas. *Springer Series in Optical Sciences*, **2014**, 133-161	0.5	
76	Investigation of fractal DGS microwave filters **2013**,		2
75	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
74	Dual band CSSRR inspired microstrip patch antenna for enhancing antenna performance and size reduction **2013**,		3
73	Complementary Sierpinski gasket fractal antenna for dual-band WiMAX/WLAN (3.5/5.8 GHz) applications. *International Journal of Microwave and Wireless Technologies*, **2013**, 5, 499-505	0.8	9
72	A design of microstrip bandpass filter with narrow bandwidth using DGS/DMS for WLAN **2013**,		3
71	A Design of a Terahertz Microstrip Bandstop Filter with Defected Ground Structure. *Active and Passive Electronic Components*, **2013**, 2013, 1-5	0.3	3
70	A compact narrow band microstrip bandpass filter with defected ground structure (DGS) **2012**,		5
69	Dual band microstrip patch antenna for wireless applications at 5.2 GHz and 5.8 GHz using CSSRR **2012**,		5
68	Studies on a 0.5 MW, 42 GHz CW, conventional cavity gyrotron **2012**,		1
67	Feasibility studies of a 1.0 MW, 204 GHz CW, conventional cavity gyrotron for future thermonuclear fusion reactors **2012**,		1

66	METAMATERIAL INSPIRED PATCH ANTENNA WITH L-SHAPE SLOT LOADED GROUND PLANE FOR DUAL BAND (WIMAX/WLAN) APPLICATIONS. *Progress in Electromagnetics Research Letters*, **2012**, 31, 35-43	0.5	16
65	**2012**,		7
64	A compact array with low mutual coupling using defected ground structures **2011**,		5
63	Mode selection and resonator design studies of a 95 GHz, 100 KW, CW Gyrotron **2011**,		2
62	A STACKED EQUILATERAL TRIANGULAR PATCH ANTENNA WITH SIERPINSKI GASKET FRACTAL FOR WLAN APPLICATIONS. *Progress in Electromagnetics Research Letters*, **2011**, 22, 71-81	0.5	16
61	MICROSTRIP PATCH ANTENNA WITH SKEW-F SHAPED DGS FOR DUAL BAND OPERATION. *Progress in Electromagnetics Research M*, **2011**, 19, 147-160	0.6	21
60	A Stacked Microstrip Patch Antenna Loaded With U-Shaped Slots. *Frequenz*, **2011**, 65,	0.6	1
59	Design of a TM01-TE11 circular bend mode converter operating at 3 GHz **2011**,		3
58	Design studies of ultra wideband microstrip bandpass filter with T-shaped defected ground structure controlled by inter-digital capacitance **2011**,		1
57	Back to Back Combined Single Feed Proximity Coupled Antenna with Dumbbell Shaped DGS. *Journal of Electromagnetic Analysis and Applications*, **2011**, 03, 43-46	0.3	1
56	A STACKED MICROSTRIP PATCH ANTENNA WITH FRACTAL SHAPED DEFECTS. *Progress in Electromagnetics Research C*, **2010**, 14, 185-195	0.9	4
55	DESIGN OF A 60 GHz, 100 kW CW GYROTRON FOR PLASMA DIAGNOSTICS: GDS-V.01 SIMULATIONS. *Progress in Electromagnetics Research B*, **2010**, 22, 379-399	0.7	13
54	PYTHAGORAS TREE: A FRACTAL PATCH ANTENNA FOR MULTI-FREQUENCY AND ULTRA-WIDE BANDWIDTH OPERATIONS. *Progress in Electromagnetics Research C*, **2010**, 16, 25-35	0.9	10
53	PERFORMANCE OF PRINTABLE ANTENNAS WITH DIFFERENT CONDUCTOR THICKNESS. *Progress in Electromagnetics Research Letters*, **2010**, 13, 59-65	0.5	10
52	Radiation From Rectangular Waveguide-Fed Fractal Apertures. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 2088-2093	4.9	5
51	Design studies of a 100 kW, 60 GHz CW gyrotron for plasma diagnostics **2010**,		1
50	Defected Ground Structure in the perspective of Microstrip Antennas: A Review. *Frequenz*, **2010**, 64,	0.6	41
49	Design of Sierpinski Carpet antenna using two different feeding mechanisms for WLAN applications **2010**,		7

48	On the size reduction of microstrip antenna with DGS **2010**,		7
47	Investigations on fractal frequency selective diaphragms in rectangular waveguide. *International Journal of RF and Microwave Computer-Aided Engineering*, **2010**, 20, 209-219	1.5	8
46	Planar antennas for passive UHF RFID tags on flexible copper clad laminate. *Microwave and Optical Technology Letters*, **2010**, 52, 1761-1763	1.2	1
45	ELECTROMAGNETIC TRANSMISSION THROUGH FRACTAL APERTURES IN INFINITE CONDUCTING SCREEN. *Progress in Electromagnetics Research B*, **2009**, 12, 105-138	0.7	6
44	Design studies of a quasi-optical launcher for a 170 GHz, 200–250 kW gyrotron **2009**,		1
43	CAD of RF Windows Using Multiobjective Particle Swarm Optimization. *IEEE Transactions on Plasma Science*, **2009**, 37, 1104-1109	1.3	5
42	A Modified Particle Swarm Optimizer and its Application to the Design of Microwave Filters. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2009**, 30, 598-610	2.2	2
41	Design of magnetron injection guns – A 3D simulation approach **2009**,		2
40	Efficiency enhancement of microstrip patch antenna with defected ground structure **2008**,		23
39	. *IEEE Transactions on Plasma Science*, **2008**, 36, 631-636	1.3	13
38	Design of RF window using Multi-objective particle swarm optimization **2008**,		1
37	SVM-PSO Based Modeling and Optimization of Microwave Components. *Frequenz*, **2008**, 62,	0.6	1
36	Fractal apertures in waveguides and conducting screens **2008**,		2
35	Support Vector Driven Genetic Algorithm for the Design of Circular Polarized Microstrip Antenna. *Journal of Infrared, Millimeter and Terahertz Waves*, **2008**, 29, 558-569		2
34	Design and Optimization of Nonlinear Tapers using Particle Swarm Optimization. *Journal of Infrared, Millimeter and Terahertz Waves*, **2008**, 29, 792-798		15
33	GAIN AND BANDWIDTH ANALYSIS OF A VANE-LOADED GYRO-TWT. *Journal of Infrared, Millimeter and Terahertz Waves*, **2007**, 27, 333-342		1
32	CONCEPTUAL DESIGN STUDIES OF AN 84 GHz, 500 kW, CW GYROTRON. *Journal of Infrared, Millimeter and Terahertz Waves*, **2007**, 27, 657-670		3
31	A Circularly Polarized Stacked Patch Aperture Coupled Microstrip Antenna for 2.6 GHz Band. *Journal of Infrared, Millimeter and Terahertz Waves*, **2007**, 28, 13-23		2

30	A 250 GHz, 50 W, CW Second Harmonic Gyrotron. *Journal of Infrared, Millimeter and Terahertz Waves*, **2007**, 28, 611-619		11
29	Feasibility Study of Axially- Extracted Virtual Cathode Oscillator. *Journal of Infrared, Millimeter and Terahertz Waves*, **2007**, 28, 911-922		
28	Parameterized Module Scheduling Algorithm for Reconfigurable Computing Systems **2007**,		2
27	Gain-frequency response of nearby waveguide modes in vane-loaded gyro-TWT. *IEEE Transactions on Plasma Science*, **2006**, 34, 554-558	1.3	3
26	Optimization of Vane-Parameters for Gain-Frequency Response of Vane-Loaded Gyro-TWT. *Journal of Infrared, Millimeter and Terahertz Waves*, **2005**, 26, 247-262		1
25	Design of a 42-GHz 200-kW gyrotron operating at the second harmonic. *IEEE Transactions on Microwave Theory and Techniques*, **2004**, 52, 686-692	4.1	19
24	165-GHz coaxial cavity gyrotron. *IEEE Transactions on Plasma Science*, **2004**, 32, 853-860	1.3	40
23	Gyrotrons. *Advanced Texts in Physics*, **2004**,		61
22	Towards a 2 MW, CW, 170 GHz coaxial cavity gyrotron for ITER. *Fusion Engineering and Design*, **2003**, 66-68, 481-485	1.7	30
21	Effects of Beam and Magnetic Field Parameters on Highly Competing TE01 and TE21 Modes of Vane Loaded Gyro-TWT. *Journal of Infrared, Millimeter and Terahertz Waves*, **2002**, 23, 517-533		5
20	Equivalent circuit analysis of helix-loaded waveguide for Gyro-TWTs. *IEEE Transactions on Plasma Science*, **2002**, 30, 375-379	1.3	1
19	Possibilities for multifrequency operation of a gyrotron at FZK. *IEEE Transactions on Plasma Science*, **2002**, 30, 828-834	1.3	18
18	A coaxial Gyro-TWT. *IEEE Transactions on Plasma Science*, **2001**, 29, 57-61	1.3	12
17	Possible operation of a 1.5-2-MW, CW conventional cavity gyrotron at 140 GHz. *IEEE Transactions on Plasma Science*, **2000**, 28, 645-651	1.3	15
16	A Cylindrical Waveguide Structure with Helical Grooves for High Power TWTs. *Journal of Infrared, Millimeter and Terahertz Waves*, **2000**, 21, 553-561		0
15	Design of a 24 GHz, 25-50 kW Technology Gyrotron Operating at the Second Harmonic. *Journal of Infrared, Millimeter and Terahertz Waves*, **2000**, 21, 1917-1943		13
14	Design of an Electron Gun for a 42 GHz, 200 kW, TE52 Mode Gyrotron using the BFCRAY code. *IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)*, **2000**, 17, 275-281	1.5	2
13	Conceptual design of a 42 GHz, 200 kW gyrotron operating in the TE5,2 mode. *International Journal of Electronics*, **2000**, 87, 709-723	1.2	14

12	Effective simulation of the radial thickness of helix for broad band, practical TWTs. *IEEE Transactions on Plasma Science*, **1999**, 27, 1115-1123	1.3	11
11	Computer Aided Study of Some Re-entrant Cavity Structures for Klystrons. *IETE Journal of Research* , **1993**, 39, 339-344	0.9	
10	Design and Development of a Demountable Electrostatic Module for Measuring Secondary Electron Emission Ratio. *IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)*, **1992**, 9, 65-69	1.5	
9	. *IEEE Transactions on Electron Devices*, **1992**, 39, 1961-1965	2.9	7
8	Feasibility of a 140 GHz, 3.0-3.5 MW, CW coaxial gyrotron with dual beam output		2
7	Development of frequency step tunable 1 MW gyrotrons in D-band		3
6	A step towards a 170 GHz, 5 MW coaxial super gyrotron		2
5	Design studies of an 84 GHz, 500 kW, CW gyrotron		1
4	A 42 GHz, 200 kW second harmonic gyrotron		2
3			1
2	Design of a multifrequency high power gyrotron at FZK		2
1	Compact dual and triple band antennas for 5G-IOT applications. *International Journal of Microwave and Wireless Technologies*,1-8	0.8	1