

Peter Gardner

List of Publications by Year in descending order

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166
papers

1,830
citations

331670

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36
g-index

168
all docs

168
docs citations

168
times ranked

1329
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Vector Network Analyzer Thermal Drift Error. Metrology, 2022, 2, 150-160.	1.5	3
2	Signal Reduction Due to Layer of Water at Low-THz Frequency for Automotive Radar Applications. , 2022, , .		0
3	Rational Fitting with Weighted Iteration (RFWI) with Application to Chassis Antenna. , 2022, , .		1
4	Study of Low Terahertz Radar Signal Backscattering for Surface Identification. Sensors, 2021, 21, 2954.	3.8	19
5	Unveiling the composition of historical plastics through non-invasive reflection FT-IR spectroscopy in the extended near- and mid-Infrared spectral range. Analytica Chimica Acta, 2021, 1169, 338602.	5.4	3
6	Road Surface Classification Based on Radar Imaging Using Convolutional Neural Network. IEEE Sensors Journal, 2021, 21, 18725-18732.	4.7	13
7	Rain Attenuation at Millimeter Wave and Low-THz Frequencies. IEEE Transactions on Antennas and Propagation, 2020, 68, 421-431.	5.1	75
8	Analytical Solution of Amplifier-Antenna System's Impedance Matching Requirement for Reliable Microwave Transmitter. IEEE Access, 2020, 8, 182640-182662.	4.2	1
9	Seamless Integration of Active Antenna With Improved Power Efficiency. IEEE Access, 2020, 8, 48399-48407.	4.2	10
10	Theory, design and validation of a tunable, injection-matched, 2-port antenna. , 2020, , .		0
11	Experimental study on low-THz automotive radar signal attenuation during snowfall. IET Radar, Sonar and Navigation, 2019, 13, 1421-1427.	1.8	15
12	Low-THz Transmission Through Water-Containing Contaminants on Antenna Radome. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 63-75.	3.1	19
13	Fabry-Perot Cavity Antennas. Signals and Communication Technology, 2018, , 221-241.	0.5	6
14	Low-THz Wave Snow Attenuation. , 2018, , .		7
15	Signal Reduction by Tree Leaves in Low- THz Automotive Radar. , 2018, , .		1
16	Signal Reduction by tree leaves in Low-THz Automotive Radar. , 2018, , .		1
17	Millimeter-Wave Slotted Waveguide Array With Unequal Beamwidths and Low Sidelobe Levels for Vehicle Radars and Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 10574-10582.	6.3	30
18	Wideband Frequency-Domain and Space-Domain Pattern Reconfigurable Circular Antenna Array. IEEE Transactions on Antennas and Propagation, 2017, 65, 5179-5189.	5.1	21

#	ARTICLE	IF	CITATIONS
19	Low-THz Dielectric Lens Antenna With Integrated Waveguide Feed. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 572-581.	3.1	56
20	Antenna matching network using new class of non-Foster reactive elements. , 2017, , .		0
21	Multiband Open-Ended Resonant Antenna Based on One ECRLH Unit Cell Structure. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1273-1276.	4.0	10
22	Transmission through uniform layer of ice at low-THz frequencies. , 2017, , .		7
23	Non-Foster antenna matching networks using reflection-mode negative-group-delay networks. , 2016, , .		2
24	Novel tunable frequency selective meta-surfaces. , 2016, , .		2
25	Signal reduction due to radome contamination in low-THz automotive radar. , 2016, , .		8
26	A THz dielectric lens antenna. , 2016, , .		1
27	Tunable Double-Layer EBG Structures and Application to Antenna Isolation. IEEE Transactions on Antennas and Propagation, 2016, 64, 70-79.	5.1	37
28	Wideband two-port injection matched antenna. , 2015, , .		0
29	Characterisation of attenuation at low THz frequencies in radar sensors. , 2015, , .		0
30	Influence of uncertainty in dielectric properties on the design performance of a tunable composite right/left handed leaky wave antenna. , 2015, , .		1
31	An Electronically Reconfigurable Patch Antenna Design for Polarization Diversity with Fixed Resonant Frequency. Radioengineering, 2015, 24, 45-53.	0.6	14
32	DESIGN OF FILTERING MICROSTRIP ANTENNA USING FILTER SYNTHESIS APPROACH. Progress in Electromagnetics Research, 2014, 145, 59-67.	4.4	38
33	Design of Optimum Matching Networks for Push-pull Amplifier - Antenna Modules. , 2014, , .		0
34	Investigation of radiation from an injection matched antenna. , 2014, , .		2
35	Injection matched approach for wideband tunable electrically small antennas. IET Microwaves, Antennas and Propagation, 2014, 8, 878-886.	1.4	7
36	Tunable millimetre-wave phase shifting surfaces using piezoelectric actuators. IET Microwaves, Antennas and Propagation, 2014, 8, 829-834.	1.4	9

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37	Tuning periodic surfaces with piezoelectric actuators. , 2014, , .		1
38	A novel approach for wideband tunable Electrically Small Antennas. , 2014, , .		4
39	Multi-layer sub-wavelength profile broadband leaky-wave antenna. , 2014, , .		1
40	Reconfigurable Parallel Coupled Band Notch Resonator With Wide Tuning Range. IEEE Transactions on Industrial Electronics, 2014, 61, 6316-6326.	7.9	20
41	Coplanar Waveguide Reconfigurable Bandpass Filter Based on A Varactor Loaded Colinear Resonator. Microwave and Optical Technology Letters, 2013, 55, 2389-2393.	1.4	0
42	Multilayer antennas with harmonic filtering for differentially fed power amplifier integration. , 2013, , .		1
43	Isolation enhancement in a dual port antenna. , 2013, , .		1
44	Antenna bandwidth broadening with a negative impedance converter. International Journal of Microwave and Wireless Technologies, 2013, 5, 249-260.	1.9	6
45	A New Power Combiner Using Aperture Coupling Technique for Push-pull Class B Power Amplifier. , 2013, , .		1
46	WIDEBAND RECONFIGURABLE LOG PERIODIC PATCH ARRAY. Progress in Electromagnetics Research C, 2013, 34, 123-138.	0.9	8
47	Microstrip Tunable Bandpass Filter with the Colinear Resonators. International Journal of Antennas and Propagation, 2013, 2013, 1-5.	1.2	3
48	SLOT-FED SWITCHED PATCH ANTENNA FOR MULTIPLE FREQUENCY OPERATION. Progress in Electromagnetics Research C, 2013, 36, 91-104.	0.9	1
49	Yagi antenna with improved out-of-band gain suppression. Electronics Letters, 2012, 48, 546.	1.0	5
50	Analytical solution for switched band matching networks. , 2012, , .		1
51	Yagi antenna with frequency domain filtering performance. , 2012, , .		5
52	Broadband matching of small antennas using negative impedance converters. , 2012, , .		7
53	Antenna Requirements for Software Defined and Cognitive Radios. Proceedings of the IEEE, 2012, 100, 2262-2270.	21.3	78
54	Tunable slot-loaded patch antenna for cognitive radio. , 2012, , .		11

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55	Tunable defected ground slits for mutual coupling reduction applications. , 2012, , .		4
56	WIDEBAND CONICAL MONOPOLE ANTENNA WITH INTEGRATED STOPBAND FILTER. Progress in Electromagnetics Research C, 2012, 27, 223-238.	0.9	3
57	Linearity and efficiency enhancement techniques in microwave transmitters. , 2011, , .		0
58	Wideband omni conical monopole antenna with high Q band-notched behaviour. , 2011, , .		3
59	Reconfigurable antennas for cognitive radio. , 2011, , .		3
60	Antennas for software defined radio handsets. , 2011, , .		0
61	Reconfigurable Vivaldi antenna with tunable stop bands. , 2011, , .		7
62	Band-Notched UWB Antenna Incorporating a Microstrip Open-Loop Resonator. IEEE Transactions on Antennas and Propagation, 2011, 59, 3045-3048.	5.1	87
63	Switched-Band Vivaldi Antenna. IEEE Transactions on Antennas and Propagation, 2011, 59, 1472-1480.	5.1	95
64	Vivaldi Antenna With Integrated Switchable Band Pass Resonator. IEEE Transactions on Antennas and Propagation, 2011, 59, 4008-4015.	5.1	72
65	Switchable multi-band coplanar antenna. , 2011, , .		2
66	Power-Combining Class-E Amplifier With Finite Choke. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 451-457.	5.4	13
67	Vivaldi with tunable narrow band rejection. Microwave and Optical Technology Letters, 2011, 53, 1125-1128.	1.4	6
68	Improved band-notched wideband conical monopole antenna. Microwave and Optical Technology Letters, 2011, 53, 1825-1829.	1.4	7
69	Wide tunable balanced antenna for mobile terminals and its potential for MIMO applications. , 2011, , .		7
70	Combining Concurrent and Sequential Methods to Examine the Usability and Readability of Websites With Information About Medicines. Journal of Mixed Methods Research, 2011, 5, 25-51.	2.6	6
71	Reconfigurable dipole-chassis antennas for small terminal MIMO applications. Electronics Letters, 2011, 47, 953.	1.0	17
72	TEM horn antenna with multi-pole band notch characteristic. Electronics Letters, 2011, 47, 1357-1358.	1.0	6

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73	Reconfigurable Vivaldi antenna. Microwave and Optical Technology Letters, 2010, 52, 785-787.	1.4	25
74	Adaptive antenna on cascaded Butler Matrices system. Microwave and Optical Technology Letters, 2010, 52, 847-849.	1.4	0
75	Ultra-wideband antenna with on/off band-notch control. Microwave and Optical Technology Letters, 2010, 52, 2743-2746.	1.4	0
76	Raising learner awareness of progress towards UK-SPEC learning outcomes. Engineering Education, 2010, 5, 11-22.	0.3	4
77	Novel reconfigurable dual-port UWB chassis-antenna. , 2010, , .		0
78	Switched WLAN-wideband tapered slot antenna. Electronics Letters, 2010, 46, 23.	1.0	24
79	Micromachined H-plane horn antenna manufactured using thick SU-8 photoresist. Electronics Letters, 2010, 46, 743.	1.0	6
80	Reconfigurable slot line filter. , 2010, , .		0
81	Wideband conical monopole antenna with frequency band-notched behaviour. Electronics Letters, 2010, 46, 1542.	1.0	3
82	Envelope-tracking-based Doherty power amplifier. International Journal of Electronics, 2010, 97, 525-530.	1.4	3
83	Switchable filtering in Vivaldi antenna. Electronics Letters, 2010, 46, 477.	1.0	3
84	Review of reconfigurable vivaldi antennas. , 2010, , .		8
85	UWB pyramidal monopole antenna with wide tunable band-notched behaviour. Electronics Letters, 2010, 46, 1588.	1.0	22
86	TEM horn circular array for wide band pattern notch reconfigurable antenna system. , 2010, , .		4
87	Frequency reconfigurable log periodic patch array. Electronics Letters, 2010, 46, 1648.	1.0	13
88	Multimode Vivaldi antenna. Electronics Letters, 2010, 46, 1424.	1.0	15
89	Equivalent circuit modeling of chassis-antenna with two coupling elements. , 2010, , .		1
90	Integrated narrow/band-notched UWB antenna. Electronics Letters, 2010, 46, 814.	1.0	11

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91	A NOVEL ACTIVE ANTENNA BEAMFORMING NETWORKS USING BUTLER MATRICES. Progress in Electromagnetics Research C, 2009, 11, 183-198.	0.9	5
92	Digital Baseband Predistortion Based Linearized Broadband Inverse Class-E Power Amplifier. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 323-328.	4.6	9
93	Wide tunable dual-band reconfigurable antenna. Electronics Letters, 2009, 45, 1109.	1.0	21
94	Feed network for antenna decoupling. , 2009, , .		1
95	Wide tunable dual-band reconfigurable antenna for future wireless devices. , 2009, , .		8
96	Switchable wideband-narrowband tapered slot antenna. , 2009, , .		6
97	Characterisation, analysis and injection of two-tone third-order intermodulation products in an amplifier. IET Microwaves, Antennas and Propagation, 2009, 3, 443.	1.4	6
98	Reconfigurable log periodic aperture fed microstrip antenna. , 2009, , .		5
99	Use and Trust of Simple Independent Open Learner Models to Support Learning within and across Courses. Lecture Notes in Computer Science, 2009, , 42-53.	1.3	15
100	Enhanced efficiency of envelope-tracking based broadband inverse Class-E power amplifier. , 2008, , .		0
101	Digital baseband injection techniques to reduce spectral regrowth in power amplifier. , 2008, , .		4
102	Reconfigurable antennas for cognitive radio: requirements and potential design approaches. , 2008, , .		34
103	Combined wideband and narrowband antennas for cognitive radio applications. , 2008, , .		20
104	Supporting Interaction Preferences and Recognition of Misconceptions with Independent Open Learner Models. Lecture Notes in Computer Science, 2008, , 62-72.	1.3	18
105	A differentially fed electrically small antenna. , 2007, , .		2
106	Error Vector Magnitude Measurement On Cascaded Butler Matrices System. , 2007, , .		0
107	Non-contact coupling between antenna and circuit front-ends. , 2007, , .		0
108	Beamforming networks using cascaded Butler Matrices. , 2007, , .		7

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109	Adaptive antenna system using cascaded butler matrices. , 2007, , .		0
110	A novel digital predistortion technique for adaptive predistorter applications. , 2007, , .		0
111	Active Integrated Antenna Design Using a Contact-Less, Proximity Coupled, Differentially Fed Technique. IEEE Transactions on Antennas and Propagation, 2007, 55, 267-276.	5.1	44
112	Differential aperture coupling technique for passive and active integrated antenna design. IET Microwaves, Antennas and Propagation, 2007, 1, 458.	1.4	14
113	Dual butler matrix active antenna system. Microwave and Optical Technology Letters, 2007, 49, 3004-3007.	1.4	4
114	SNR measurement in a beamforming network. Microwave and Optical Technology Letters, 2007, 49, 2968-2973.	1.4	0
115	Adaptive Neuro-Fuzzy Inference System (ANFIS) Digital Predistorter for RF Power Amplifier Linearization. IEEE Transactions on Vehicular Technology, 2006, 55, 43-51.	6.3	32
116	Aperture-coupled, differentially-fed planar inverted F antenna. Electronics Letters, 2006, 42, 608.	1.0	4
117	Differential Feeding Technique for Active Integrated Antennas. , 2006, , .		4
118	High-Q Class E power amplifier analysis using energy conservation. IET Circuits, Devices and Systems, 2005, 152, 591.	0.6	4
119	Drain AM frequency response of the high-Q Class E power amplifier. IET Circuits, Devices and Systems, 2005, 152, 752.	0.6	7
120	Methods for measuring the RF half-wave voltage of LiNbO3 optical modulators. Microwave and Optical Technology Letters, 2005, 46, 440-443.	1.4	9
121	Compact push-pull active integrated transmitting antenna. , 2005, , .		4
122	Integrated antenna/power combiner for LINC radio transmitters. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1083-1088.	4.6	29
123	Frequency transform synthesis method for cross-coupled resonator bandpass filters. IEEE Microwave and Wireless Components Letters, 2005, 15, 533-535.	3.2	3
124	Class E power amplifier steady-state solution as series in $1/\hat{Q}$. IET Circuits, Devices and Systems, 2004, 151, 557.	0.6	5
125	Neuro-fuzzy approach to adaptive digital predistortion. Electronics Letters, 2004, 40, 185.	1.0	11
126	Air-spaced beamforming patch antenna array. Electronics Letters, 2004, 40, 714.	1.0	4

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127	Microstrip log periodic antenna (LPA) using inset feed. , 2004, , .		1
128	Multiple-coupled microstrip hairpin-resonator filter. IEEE Microwave and Wireless Components Letters, 2003, 13, 532-534.	3.2	20
129	A novel digital predistorter technique using an adaptive neuro-fuzzy inference system. IEEE Communications Letters, 2003, 7, 55-57.	4.1	21
130	Microstrip log periodic antenna using circuit simulator. , 2003, , .		13
131	Stacked Common Mode Power Combining Patch Antenna For LINC Transmitter. , 2003, , .		1
132	Stacked common mode power combining patch antenna for LINC transmitter. , 2003, , .		0
133	Compact power combining patch antenna. Electronics Letters, 2002, 38, 1413.	1.0	10
134	Integrated antenna for LINC systems. Microwave and Optical Technology Letters, 2002, 33, 93-95.	1.4	7
135	Comments on ?low-noise one-port microwave transistor amplifier?. Microwave and Optical Technology Letters, 2002, 35, 251-252.	1.4	0
136	A LINC demonstrator based on switchable phase shifters. Microwave and Optical Technology Letters, 2002, 35, 262-264.	1.4	1
137	Wideband dual-polarised microstrip patch antenna. Electronics Letters, 2001, 37, 1213.	1.0	25
138	4Å–4 Butler Matrix Beam Forming Network using Novel Reduced Size Branchline Coupler. , 2001, , .		12
139	Active Integrated Antennas. , 2001, , .		0
140	FDTD Analysis of Microwave Active Antennas with Optical Excitation. , 2001, , .		0
141	Dual-polarised wideband microstrip antenna. Electronics Letters, 2001, 37, 1106.	1.0	14
142	Direct-conversion active antennas for modulation and demodulation. Microwave and Optical Technology Letters, 2001, 28, 89-93.	1.4	3
143	Harmonic Radiation from Varactor-Loaded Microstrip Antennas. , 2001, , .		2
144	Zero-IF detection active antenna. Electronics Letters, 2001, 37, 3.	1.0	7

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145	Novel Canceller Diplexer for Future Mobile Handsets. , 2001, , .		0
146	A four-port scattering matrix formalism for p-i-n traveling-wave photodetectors. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1007-1016.	4.6	2
147	Analysis and design of integrated active circulator antennas. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1017-1023.	4.6	23
148	Small H-shaped antennas for MMIC applications. IEEE Transactions on Antennas and Propagation, 2000, 48, 1134-1141.	5.1	40
149	Dual band folded monopole/loop antenna for terrestrial communication system. Electronics Letters, 2000, 36, 1990.	1.0	49
150	Homodyne Active Antennas. , 2000, , .		0
151	Local oscillator radiation from active integrated antennas. Electronics Letters, 1999, 35, 2163.	1.0	3
152	Distributed MOSFET power amplifier. Microwave and Optical Technology Letters, 1999, 20, 187-188.	1.4	0
153	Compact wideband planar monopole antenna. Electronics Letters, 1999, 35, 2157.	1.0	124
154	Compact dual-band dual-polarisation microstrip patch antenna. Electronics Letters, 1999, 35, 1034.	1.0	31
155	Compact low noise receiving antenna. Electronics Letters, 1998, 34, 1367.	1.0	6
156	Multi-band antennas. , 0, , .		4
157	Local oscillator radiation from active integrated antennas. , 0, , .		0
158	Direct downconversion active antennas for modulation and demodulation. , 0, , .		0
159	Low noise integrated active antenna as image reject mixer (IRM). , 0, , .		2
160	Design of L-band microwave oscillators. , 0, , .		2
161	Millimetric technologies for future vehicle communications. , 0, , .		3
162	Multiple-coupled microstrip hairpin-resonator filter. , 0, , .		1

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163	Analysis of a dual-frequency microstrip antenna. , 0, , .		0
164	FDTD analysis of microwave active antenna including nonlinear model of FET transistor. , 0, , .		1
165	Radio Technologies for Future Telematic Systems for Foresight Vehicles. , 0, , .		0
166	Antennas and beamformers using air-spaced micromachining technology. , 0, , .		3