Peter Gardner

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5819189/publications.pdf

Version: 2024-02-01

166 papers	1,830 citations	331670 21 h-index	345221 36 g-index
168 all docs	168 docs citations	168 times ranked	1329 citing authors

#	Article	IF	Citations
1	Compact wideband planar monopole antenna. Electronics Letters, 1999, 35, 2157.	1.0	124
2	Switched-Band Vivaldi Antenna. IEEE Transactions on Antennas and Propagation, 2011, 59, 1472-1480.	5.1	95
3	Band-Notched UWB Antenna Incorporating a Microstrip Open-Loop Resonator. IEEE Transactions on Antennas and Propagation, 2011, 59, 3045-3048.	5.1	87
4	Antenna Requirements for Software Defined and Cognitive Radios. Proceedings of the IEEE, 2012, 100, 2262-2270.	21.3	78
5	Rain Attenuation at Millimeter Wave and Low-THz Frequencies. IEEE Transactions on Antennas and Propagation, 2020, 68, 421-431.	5.1	75
6	Vivaldi Antenna With Integrated Switchable Band Pass Resonator. IEEE Transactions on Antennas and Propagation, 2011, 59, 4008-4015.	5.1	72
7	Low-THz Dielectric Lens Antenna With Integrated Waveguide Feed. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 572-581.	3.1	56
8	Dual band folded monopole/loop antenna for terrestrial communication system. Electronics Letters, 2000, 36, 1990.	1.0	49
9	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
10	Small H-shaped antennas for MMIC applications. IEEE Transactions on Antennas and Propagation, 2000, 48, 1134-1141.	5.1	40
11	DESIGN OF FILTERING MICROSTRIP ANTENNA USING FILTER SYNTHESIS APPROACH. Progress in Electromagnetics Research, 2014, 145, 59-67.	4.4	38
12	Tunable Double-Layer EBG Structures and Application to Antenna Isolation. IEEE Transactions on Antennas and Propagation, 2016, 64, 70-79.	5.1	37
13	Reconfigurable antennas for cognitive radio: requirements and potential design approaches. , 2008, , .		34
14	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
15	Compact dual-band dual-polarisation microstrip patch antenna. Electronics Letters, 1999, 35, 1034.	1.0	31
16	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
17	Integrated antenna/power combiner for LINC radio transmitters. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1083-1088.	4.6	29
18	Wideband dual-polarised microstrip patch antenna. Electronics Letters, 2001, 37, 1213.	1.0	25

#	Article	IF	Citations
19	Reconfigurable Vivaldi antenna. Microwave and Optical Technology Letters, 2010, 52, 785-787.	1.4	25
20	Switched WLAN-wideband tapered slot antenna. Electronics Letters, 2010, 46, 23.	1.0	24
21	Analysis and design of integrated active circulator antennas. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1017-1023.	4.6	23
22	UWB pyramidal monopole antenna with wide tunable band-notched behaviour. Electronics Letters, 2010, 46, 1588.	1.0	22
23	A novel digital predistorter technique using an adaptive neuro-fuzzy inference system. IEEE Communications Letters, 2003, 7, 55-57.	4.1	21
24	Wide tunable dual-band reconfigurable antenna. Electronics Letters, 2009, 45, 1109.	1.0	21
25	Wideband Frequency-Domain and Space-Domain Pattern Reconfigurable Circular Antenna Array. IEEE Transactions on Antennas and Propagation, 2017, 65, 5179-5189.	5.1	21
26	Multiple-coupled microstrip hairpin-resonator filter. IEEE Microwave and Wireless Components Letters, 2003, 13, 532-534.	3.2	20
27	Combined wideband and narrowband antennas for cognitive radio applications. , 2008, , .		20
28	Reconfigurable Parallel Coupled Band Notch Resonator With Wide Tuning Range. IEEE Transactions on Industrial Electronics, 2014, 61, 6316-6326.	7.9	20
29	Low-THz Transmission Through Water-Containing Contaminants on Antenna Radome. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 63-75.	3.1	19
30	Study of Low Terahertz Radar Signal Backscattering for Surface Identification. Sensors, 2021, 21, 2954.	3.8	19
31	Supporting Interaction Preferences and Recognition of Misconceptions with Independent Open Learner Models. Lecture Notes in Computer Science, 2008, , 62-72.	1.3	18
32	Reconfigurable dipole-chassis antennas for small terminal MIMO applications. Electronics Letters, 2011, 47, 953.	1.0	17
33	Multimode Vivaldi antenna. Electronics Letters, 2010, 46, 1424.	1.0	15
34	Experimental study on lowâ€THz automotive radar signal attenuation during snowfall. IET Radar, Sonar and Navigation, 2019, 13, 1421-1427.	1.8	15
35	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
36	Dual-polarised wideband microstrip antenna. Electronics Letters, 2001, 37, 1106.	1.0	14

#	Article	IF	Citations
37	Differential aperture coupling technique for passive and active integrated antenna design. IET Microwaves, Antennas and Propagation, 2007, 1, 458.	1.4	14
38	An Electronically Reconfigurable Patch Antenna Design for Polarization Diversity with Fixed Resonant Frequency. Radioengineering, 2015, 24, 45-53.	0.6	14
39	Microstrip log periodic antenna using circuit simulator. , 2003, , .		13
40	Frequency reconfigurable log periodic patch array. Electronics Letters, 2010, 46, 1648.	1.0	13
41	Power-Combining Class-E Amplifier With Finite Choke. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 451-457.	5.4	13
42	Road Surface Classification Based on Radar Imaging Using Convolutional Neural Network. IEEE Sensors Journal, 2021, 21, 18725-18732.	4.7	13
43	4Ã—4 Butler Matrix Beam Forming Network using Novel Reduced Size Branchline Coupler. , 2001, , .		12
44	Neuro-fuzzy approach to adaptive digital predistortion. Electronics Letters, 2004, 40, 185.	1.0	11
45	Integrated narrow/band-notched UWB antenna. Electronics Letters, 2010, 46, 814.	1.0	11
46	Tunable slot-loaded patch antenna for cognitive radio. , 2012, , .		11
47	Compact power combining patch antenna. Electronics Letters, 2002, 38, 1413.	1.0	10
48	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
49	Seamless Integration of Active Antenna With Improved Power Efficiency. IEEE Access, 2020, 8, 48399-48407.	4.2	10
50	Methods for measuring the RF half-wave voltage of LiNbO3 optical modulators. Microwave and Optical Technology Letters, 2005, 46, 440-443.	1.4	9
51	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
52	Tunable millimetreâ€wave phase shifting surfaces using piezoelectric actuators. IET Microwaves, Antennas and Propagation, 2014, 8, 829-834.	1.4	9
53	Wide tunable dual-band reconfigurable antenna for future wireless devices. , 2009, , .		8
54	Review of reconfigurable vivaldi antennas. , 2010, , .		8

#	Article	IF	Citations
55	WIDEBAND RECONFIGURABLE LOG PERIODIC PATCH ARRAY. Progress in Electromagnetics Research C, 2013, 34, 123-138.	0.9	8
56	Signal reduction due to radome contamination in low-THz automotive radar. , 2016, , .		8
57	Zero-IF detection active antenna. Electronics Letters, 2001, 37, 3.	1.0	7
58	Integrated antenna for LINC systems. Microwave and Optical Technology Letters, 2002, 33, 93-95.	1.4	7
59	Drain AM frequency response of the high-Q Class E power amplifier. IET Circuits, Devices and Systems, 2005, 152, 752.	0.6	7
60	Beamforming networks using cascaded Butler Matrices. , 2007, , .		7
61	Reconfigurable Vivaldi antenna with tunable stop bands. , 2011, , .		7
62	Improved bandâ€notched wideband conical monopole antenna. Microwave and Optical Technology Letters, 2011, 53, 1825-1829.	1.4	7
63	Wide tunable balanced antenna for mobile terminals and its potential for MIMO applications. , 2011, , .		7
64	Broadband matching of small antennas using negative impedance converters. , 2012, , .		7
65	Injection matched approach for wideband tunable electrically small antennas. IET Microwaves, Antennas and Propagation, 2014, 8, 878-886.	1.4	7
66	Transmission through uniform layer of ice at low-THz frequencies. , 2017, , .		7
67	Low-THz Wave Snow Attenuation. , 2018, , .		7
68	Compact low noise receiving antenna. Electronics Letters, 1998, 34, 1367.	1.0	6
69	Switchable wideband-narrowband tapered slot antenna. , 2009, , .		6
70	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
71	Micromachined H-plane horn antenna manufactured using thick SU-8 photoresist. Electronics Letters, 2010, 46, 743.	1.0	6
72	Vivaldi with tunable narrow band rejection. Microwave and Optical Technology Letters, 2011, 53, 1125-1128.	1.4	6

#	Article	IF	Citations
73	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
74	TEM horn antenna with multi-pole band notch characteristic. Electronics Letters, 2011, 47, 1357-1358.	1.0	6
75	Antenna bandwidth broadening with a negative impedance converter. International Journal of Microwave and Wireless Technologies, 2013, 5, 249-260.	1.9	6
76	Fabry-Perot Cavity Antennas. Signals and Communication Technology, 2018, , 221-241.	0.5	6
77	Class E power amplifier steady-state solution as series in 1âˆ•Q. IET Circuits, Devices and Systems, 2004, 151, 557.	0.6	5
78	A NOVEL ACTIVE ANTENNA BEAMFORMING NETWORKS USING BUTLER MATRICES. Progress in Electromagnetics Research C, 2009, 11, 183-198.	0.9	5
79	Reconfigurable log periodic aperture fed microstrip antenna. , 2009, , .		5
80	Yagi antenna with improved out-of-band gain suppression. Electronics Letters, 2012, 48, 546.	1.0	5
81	Yagi antenna with frequency domain filtering performance. , 2012, , .		5
82	Multi-band antennas. , 0, , .		4
83	Air-spaced beamforming patch antenna array. Electronics Letters, 2004, 40, 714.	1.0	4
84	High-Q Class E power amplifier analysis using energy conservation. IET Circuits, Devices and Systems, 2005, 152, 591.	0.6	4
85	Compact push-pull active integrated transmitting antenna. , 2005, , .		4
86	Aperture-coupled, differentially-fed planar inverted F antenna. Electronics Letters, 2006, 42, 608.	1.0	4
87	Differential Feeding Technique for Active Integrated Antennas. , 2006, , .		4
88	Dual butler matrix active antenna system. Microwave and Optical Technology Letters, 2007, 49, 3004-3007.	1.4	4
89	Digital baseband injection techniques to reduce spectral regrowth in power amplifier. , 2008, , .		4
90	Raising learner awareness of progress towards UK-SPEC learning outcomes. Engineering Education, 2010, 5, 11-22.	0.3	4

#	Article	IF	Citations
91	TEM horn circular array for wide band pattern notch reconfigurable antenna system. , 2010, , .		4
92	Tunable defected ground slits for mutual coupling reduction applications. , 2012, , .		4
93	A novel approach for wideband tunable Electrically Small Antennas. , 2014, , .		4
94	Local oscillator radiation from active integrated antennas. Electronics Letters, 1999, 35, 2163.	1.0	3
95	Direct-conversion active antennas for modulation and demodulation. Microwave and Optical Technology Letters, 2001, 28, 89-93.	1.4	3
96	Millimetric technologies for future vehicle communications. , 0, , .		3
97	Antennas and beamformers using air-spaced micromachining technology. , 0, , .		3
98	Frequency transform synthesis method for cross-coupled resonator bandpass filters. IEEE Microwave and Wireless Components Letters, 2005, 15, 533-535.	3.2	3
99	Wideband conical monopole antenna with frequency band-notched behaviour. Electronics Letters, 2010, 46, 1542.	1.0	3
100	Envelope-tracking-based Doherty power amplifier. International Journal of Electronics, 2010, 97, 525-530.	1.4	3
101	Switchable filtering in Vivaldi antenna. Electronics Letters, 2010, 46, 477.	1.0	3
102	Wideband omni conical monopole antenna with high Q band-notched behaviour. , 2011, , .		3
103	Reconfigurable antennas for cognitive radio. , 2011, , .		3
104	WIDEBAND CONICAL MONOPOLE ANTENNA WITH INTEGRATED STOPBAND FILTER. Progress in Electromagnetics Research C, 2012, 27, 223-238.	0.9	3
105	Microstrip Tunable Bandpass Filter with the Colinear Resonators. International Journal of Antennas and Propagation, 2013, 2013, 1-5.	1.2	3
106	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
107	Analysis of Vector Network Analyzer Thermal Drift Error. Metrology, 2022, 2, 150-160.	1.5	3
108	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

#	Article	IF	Citations
109	Low noise integrated active antenna as image reject mixer (IRM). , 0, , .		2
110	Design of L-band microwave oscillators. , 0, , .		2
111	Harmonic Radiation from Varactor-Loaded Microstrip Antennas. , 2001, , .		2
112	A differentially fed electrically small antenna. , 2007, , .		2
113	Switchable multi-band coplanar antenna. , 2011, , .		2
114	Investigation of radiation from an injection matched antenna. , 2014, , .		2
115	Non-Foster antenna matching networks using reflection-mode negative-group-delay networks. , 2016, , .		2
116	Novel tunable frequency selective meta-surfaces. , 2016, , .		2
117	Multiple-coupled microstrip hairpin-resonator filter. , 0, , .		1
118	FDTD analysis of microwave active antenna including nonlinear model of FET transistor. , 0, , .		1
119	A LINC demonstrator based on switchable phase shifters. Microwave and Optical Technology Letters, 2002, 35, 262-264.	1.4	1
120	Stacked Common Mode Power Combining Patch Antenna For LINC Transmitter. , 2003, , .		1
121	Microstrip log periodic antenna (LPA) using inset feed. , 2004, , .		1
122	Feed network for antenna decoupling. , 2009, , .		1
123	Equivalent circuit modeling of chassis-antenna with two coupling elements. , 2010, , .		1
124	Analytical solution for switched band matching networks. , 2012, , .		1
125	Multilayer antennas with harmonic filtering for differentially fed power amplifier integration. , 2013, , .		1
126	Isolation enhancement in a dual port antenna. , 2013, , .		1

#	Article	IF	Citations
127	A New Power Combiner Using Aperture Coupling Technique for Push-pull Class B Power Amplifier. , 2013, , .		1
128	SLOT-FED SWITCHED PATCH ANTENNA FOR MULTIPLE FREQUENCY OPERATION. Progress in Electromagnetics Research C, 2013, 36, 91-104.	0.9	1
129	Tuning periodic surfaces with piezoelectric actuators. , 2014, , .		1
130	Multi-layer sub-wavelength profile broadband leaky-wave antenna. , 2014, , .		1
131	Influence of uncertainty in dielectric properties on the design performance of a tunable composite right/left handed leaky wave antenna. , 2015, , .		1
132	A THz dielectric lens antenna. , 2016, , .		1
133	Signal Reduction by Tree Leaves in Low- THz Automotive Radar. , 2018, , .		1
134	Signal Reduction by tree leaves in Low-THz Automotive Radar. , 2018, , .		1
135	Analytical Solution of Amplifier-Antenna Systemâ€™s Impedance Matching Requirement for Reliable Microwave Transmitter. IEEE Access, 2020, 8, 182640-182662.	4.2	1
136	Rational Fitting with Weighted Iteration (RFWI) with Application to Chassis Antenna. , 2022, , .		1
137	Distributed MOSFET power amplifier. Microwave and Optical Technology Letters, 1999, 20, 187-188.	1.4	0
138	Local oscillator radiation from active integrated antennas. , 0, , .		0
139	Direct downconversion active antennas for modulation and demodulation. , 0, , .		0
140	Homodyne Active Antennas. , 2000, , .		0
141	Active Integrated Antennas. , 2001, , .		0
142	FDTD Analysis of Microwave Active Antennas with Optical Excitation. , 2001, , .		0
143	Novel Canceller Diplexer for Future Mobile Handsets. , 2001, , .		0
144	Analysis of a dual-frequency microstrip antenna. , 0, , .		0

#	Article	IF	Citations
145	Radio Technologies for Future Telematic Systems for Foresight Vehicles. , 0, , .		0
146	Comments on ?low-noise one-port microwave transistor amplifier?. Microwave and Optical Technology Letters, 2002, 35, 251-252.	1.4	0
147	Stacked common mode power combining patch antenna for LINC transmitter. , 2003, , .		0
148	Error Vector Magnitude Measurement On Cascaded Butler Matrices System. , 2007, , .		0
149	Non-contact coupling between antenna and circuit front-ends. , 2007, , .		0
150	Adaptive antenna system using cascaded butler matrices. , 2007, , .		0
151	A novel digital predistortion technique for adaptive predistorter applications. , 2007, , .		0
152	SNR measurement in a beamforming network. Microwave and Optical Technology Letters, 2007, 49, 2968-2973.	1.4	0
153	Enhanced efficiency of envelope-tracking based broadband inverse Class-E power amplifier. , 2008, , .		0
154	Adaptive antenna on cascaded Butler Matrices system. Microwave and Optical Technology Letters, 2010, 52, 847-849.	1.4	0
155	Ultraâ€wideband antenna with on/off bandâ€notch control. Microwave and Optical Technology Letters, 2010, 52, 2743-2746.	1.4	0
156	Novel reconfigurable dual-port UWB chassis-antenna. , 2010, , .		0
157	Reconfigurable slot line filter. , 2010, , .		0
158	Linearity and efficiency enhancement techniques in microwave transmitters. , 2011, , .		0
159	Antennas for software defined radio handsets. , 2011, , .		0
160	Coplanar Waveguide Reconfigurable Bandpass Filter Based on A Varactor Loaded Colinear Resonator. Microwave and Optical Technology Letters, 2013, 55, 2389-2393.	1.4	0
161	Design of Optimum Matching Networks for Push-pull Amplifier - Antenna Modules. , 2014, , .		0
162	Wideband two-port injection matched antenna. , 2015, , .		0

#	Article	IF	Citations
163	Characterisation of attenuation at low THz frequencies in radar sensors. , 2015, , .		0
164	Antenna matching network using new class of non-Foster reactive elements. , 2017, , .		0
165	Theory, design and validation of a tunable, injection-matched, 2-port antenna. , 2020, , .		0
166	Signal Reduction Due to Layer of Water at Low-THz Frequency for Automotive Radar Applications. , 2022, , .		0