

Guangjun Wen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5863611/publications.pdf>

Version: 2024-02-01

154
papers

1,511
citations

361045

20
h-index

360668

35
g-index

155
all docs

155
docs citations

155
times ranked

1545
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization conversion of metasurface for the application of wide band low-profile circular polarization slot antenna. Applied Physics Letters, 2016, 109, .	1.5	106
2	Integrated Data and Energy Communication Network: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 3169-3219.	24.8	98
3	Analysis of metamaterial absorber in normal and oblique incidence by using interference theory. AIP Advances, 2013, 3, .	0.6	88
4	A Compact Broadband Cross-Shaped Circularly Polarized Planar Monopole Antenna With a Ground Plane Extension. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 335-338.	2.4	69
5	An Effective Frame Breaking Policy for Dynamic Framed Slotted Aloha in RFID. IEEE Communications Letters, 2016, 20, 692-695.	2.5	52
6	A 0.029-mm^2 Conversion-Step Third-Order CT & $\Delta\sigma$ ADC With a Single OTA and Second-Order Noise-Shaping SAR Quantizer. IEEE Journal of Solid-State Circuits, 2019, 54, 428-440.	3.5	52
7	A Novel Four-Way Ka-Band Spatial Power Combiner Based on HMSIW. IEEE Microwave and Wireless Components Letters, 2008, 18, 515-517.	2.0	46
8	A Wideband Conformal End-Fire Antenna Array Mounted on a Large Conducting Cylinder. IEEE Transactions on Antennas and Propagation, 2013, 61, 4857-4861.	3.1	46
9	An integrated low phase noise radiation-pressure-driven optomechanical oscillator chipset. Scientific Reports, 2014, 4, 6842.	1.6	46
10	Dual-Band Negative Permittivity Metamaterial Based on Cross Circular Loop Resonator With Shorting Stubs. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 803-806.	2.4	43
11	Single-/dual-band metamaterial absorber based on cross-circular-loop resonator with shorted stubs. Applied Physics A: Materials Science and Processing, 2012, 108, 329-335.	1.1	42
12	Compact Wideband CPW-Fed Meandered-Slot Antenna With Slotted Y-Shaped Central Element for Wi-Fi, WiMAX, and 5G Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 7395-7399.	3.1	39
13	A High-Efficiency Inverse Class-F Microwave Rectifier for Wireless Power Transmission. IEEE Microwave and Wireless Components Letters, 2019, 29, 725-728.	2.0	34
14	Clustering the Wireless Sensor Networks: A Meta-Heuristic Approach. IEEE Access, 2020, 8, 214551-214564.	2.6	34
15	Experimental Demonstration of Microwave Two-Dimensional Airy Beam Generation Based on Single-Layer Metasurface. IEEE Transactions on Antennas and Propagation, 2020, 68, 7507-7516.	3.1	33
16	Electromagnetic Metasurfaces and Reconfigurable Metasurfaces: A Review. Frontiers in Physics, 2021, 8, .	1.0	33
17	Antenna Array Synthesis for RFID-Based Electronic Toll Collection. IEEE Transactions on Antennas and Propagation, 2018, 66, 4596-4605.	3.1	30
18	A Compact Broadband Circularly Polarized Slot Antenna With Two Linked Rectangular Slots and an Inverted-F Feed Line. IEEE Transactions on Antennas and Propagation, 2018, 66, 7374-7377.	3.1	29

#	ARTICLE	IF	CITATIONS
19	A New RFID Anti-Collision Algorithm Based on the Q-ary Search Scheme. Chinese Journal of Electronics, 2015, 24, 679-683.	0.7	24
20	A Compact High-Efficiency Watt-Level Microwave Rectifier With a Novel Harmonic Termination Network. IEEE Microwave and Wireless Components Letters, 2019, 29, 418-420.	2.0	24
21	Compact Crossed Dipole Antenna With Meandered Series Power Divider for UHF RFID Tag and Handheld Reader Devices. IEEE Transactions on Antennas and Propagation, 2019, 67, 4195-4199.	3.1	20
22	High-Efficiency Microwave Rectifier With Coupled Transmission Line for Low-Power Energy Harvesting and Wireless Power Transmission. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 916-925.	2.9	20
23	6.8- μ mW 15-dBm IIP3 CMOS common-gate LNA employing post-linearisation technique. Electronics Letters, 2014, 50, 149-151.	0.5	19
24	Error-Feedback Mismatch Error Shaping for High-Resolution Data Converters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1342-1354.	3.5	19
25	Compact and high-selectivity microstrip bandpass filter using two-stage twist-modified asymmetric split-ring resonators. Electronics Letters, 2015, 51, 635-637.	0.5	16
26	Phase Masking and Time-Frequency Chaotic Encryption for DFMA-PON. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	16
27	Microwave Airy Beam Generation With Microstrip Patch Antenna Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 2290-2301.	3.1	16
28	A novel approach to design microwave medium of negative refractive index and simulation verification. Science Bulletin, 2007, 52, 433-439.	1.7	15
29	Compact microstrip triplexer based on twist-modified asymmetric split-ring resonators. Electronics Letters, 2014, 50, 1712-1713.	0.5	15
30	Video Stream Groupcast Optimization in WLAN. , 2010, , .		14
31	Switching scheme with 98.4% switching energy reduction and high accuracy for SAR ADCs. Analog Integrated Circuits and Signal Processing, 2017, 90, 681-686.	0.9	14
32	Sequentially Rotated Circular Antenna Array With Curved PIFA and Series Feed Network. IEEE Transactions on Antennas and Propagation, 2018, 66, 5849-5858.	3.1	14
33	A Highly Linear Wideband CMOS LNTA Employing Noise/Distortion Cancellation and Gain Compensation. Circuits, Systems, and Signal Processing, 2017, 36, 474-494.	1.2	13
34	Design of a Microstrip Series Power Divider for Sequentially Rotated Nonuniform Antenna Array. International Journal of Antennas and Propagation, 2017, 2017, 1-8.	0.7	13
35	Wideband Low Axial Ratio and High-Gain Sequentially Rotated Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2264-2268.	2.4	13
36	A 4 dBm IP1dB 20.8 dBm UP3 wideband complementary SF feedback LNTA with derivative superposition method. , 2016, , .		11

#	ARTICLE	IF	CITATIONS
37	A CPW-fed broadband quasi-Yagi antenna with low cross-polarization performance. AEU - International Journal of Electronics and Communications, 2018, 83, 188-192.	1.7	11
38	A Circularly Polarized Antenna Array with Gain Enhancement for Long-Range UHF RFID Systems. Electronics (Switzerland), 2019, 8, 400.	1.8	11
39	Screw Relaxing Detection With UHF RFID Tag. IEEE Access, 2020, 8, 78553-78564.	2.6	10
40	Low-Cost Air Gap Metasurface Structure for High Absorption Efficiency Energy Harvesting. International Journal of Antennas and Propagation, 2019, 2019, 1-8.	0.7	10
41	Systematical analysis for the mixed couplings of two adjacent modified split ring resonators and the application to compact microstrip bandpass filters. AIP Advances, 2014, 4, 107119.	0.6	9
42	Second-order DAC MES for SAR ADCs. Electronics Letters, 2017, 53, 1570-1572.	0.5	9
43	Dynamics Analysis of a Pair of Ring Resonators in Liquid Media. Physical Review Applied, 2018, 10, .	1.5	9
44	Low Profile Metal Tolerant UHF RFID Tag With Lumped Elements for Post-Manufacturing Frequency Tuning. IEEE Transactions on Antennas and Propagation, 2021, 69, 7953-7958.	3.1	9
45	A Time-Efficient Protocol for Unknown Tag Identification in Large-Scale RFID Systems. IEEE Internet of Things Journal, 2022, 9, 13024-13040.	5.5	8
46	A Modified High Order FDTD Method Based on Wave Equation. IEEE Microwave and Wireless Components Letters, 2007, 17, 316-318.	2.0	7
47	Multiband Negative Permittivity Metamaterials and Absorbers. Advances in OptoElectronics, 2013, 2013, 1-7.	0.6	7
48	Synchronization in air-slot photonic crystal optomechanical oscillators. Applied Physics Letters, 2017, 110, .	1.5	7
49	A low-frequency chip-scale optomechanical oscillator with 58‰kHz mechanical stiffening and more than 100th-order stable harmonics. Scientific Reports, 2017, 7, 4383.	1.6	7
50	Using 5G Network Slicing and Non-Orthogonal Multiple Access to Transmit Medical Data in a Mobile Hospital System. IEEE Access, 2020, 8, 189163-189178.	2.6	7
51	Communication area synthesis for next generation highway ETC systems. , 2016, , .		6
52	Planar antenna array design considerations for RFID electronic toll collection system. , 2016, , .		5
53	Propagation range enhancement of truncated airy beam with antenna array at microwave frequencies. , 2018, , .		5
54	Dual Orthogonal Port Stacked Patch Antenna With Vertical Pins for Simultaneous Transmit and Receive Application. IEEE Transactions on Antennas and Propagation, 2021, 69, 8908-8913.	3.1	5

#	ARTICLE	IF	CITATIONS
55	Cable Current Detection With Passive RF Sensing Tags. IEEE Transactions on Industrial Electronics, 2022, 69, 930-939.	5.2	5
56	A Nonlinear Rectifying Diode Model for Low and High Power Levels in Microwave Regime. IEEE Microwave and Wireless Components Letters, 2022, 32, 456-459.	2.0	5
57	Intermittent Magnetic Field Monitoring System Based on Passive RFID Sensor Tags. IEEE Sensors Journal, 2022, 22, 819-831.	2.4	5
58	Comments on "subwavelength focusing using a negative-refractive-index transmission line". IEEE Antennas and Wireless Propagation Letters, 2007, 6, 659-660.	2.4	4
59	Design of wideband conformal end-fire antenna array on a large conducting cylinder. , 2012, , .		4
60	Growth and characterization of indium phosphide nanowires on transparent conductive ZnO:Al films. Journal of Materials Science: Materials in Electronics, 2014, 25, 4444-4449.	1.1	4
61	A low power CMOS voltage reference generator with temperature and process compensation. Analog Integrated Circuits and Signal Processing, 2014, 81, 313-324.	0.9	4
62	A Low-Power Edge Detection Technique for Sensor Wake-Up Applications. Journal of Circuits, Systems and Computers, 2015, 24, 1550157.	1.0	4
63	A wide-band cavity-backed slot antenna for end-fire radiation. Microwave and Optical Technology Letters, 2016, 58, 193-196.	0.9	4
64	Wideband SIW H-plane dual-ridged end-fire antenna for conformal application. Microwave and Optical Technology Letters, 2017, 59, 286-292.	0.9	4
65	Wideband cavity-backed log-periodic-slot end-fire antenna with vertical polarization for conformal application. International Journal of RF and Microwave Computer-Aided Engineering, 2017, 27, e21067.	0.8	4
66	Compact CP antenna based on resonant quadrifilar spiral structure for UHF RFID handheld reader. , 2017, , .		4
67	Compact UHF RFID Tag Antenna for Application of Domestic Animals Management. , 2018, , .		4
68	An indoor FMCW localization system with the application of the extended Kalman filter. , 2018, , .		4
69	38 GHz SIW filter based on the stepped-impedance face-to-face E-shaped DGSs for 5G application. Microwave and Optical Technology Letters, 2019, 61, 1500-1504.	0.9	4
70	CPEH: A Clustering Protocol for the Energy Harvesting Wireless Sensor Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	4
71	High-FOM Temperature Sensing Based on Hg-EIT-Like Liquid Metamaterial Unit. Nanomaterials, 2022, 12, 1395.	1.9	4
72	Full-Wave Analysis of Dielectric-Loaded Waveguide Slot Antennas Including Internal and External Mutual Coupling. , 0, , .		3

#	ARTICLE	IF	CITATIONS
73	QoS guarantees of multiuser video streaming over wireless links: Delay constraint and packet priority drop. China Communications, 2013, 10, 133-144.	2.0	3
74	Wideband transition between rectangular waveguide and microstrip using asymmetric fin line probe. Electronics Letters, 2017, 53, 490-492.	0.5	3
75	Design of A Compact Tri-band Omnidirectional Circularly Polarized Antenna. , 2018, , .		3
76	High Efficiency Electromagnetic Energy Harvesting with Metasurface. , 2018, , .		3
77	Design and radiation mechanism analysis of a multi-usage ultra-high frequency radio frequency identification tag antenna. IET Microwaves, Antennas and Propagation, 2019, 13, 1989-1996.	0.7	3
78	A Hydrogen Concentration Monitoring System With Passive Tags. IEEE Internet of Things Journal, 2021, 8, 9244-9256.	5.5	3
79	On the Design of Discrete Apertures for High-Efficiency Wireless Power Transfer. IEEE Transactions on Antennas and Propagation, 2022, 70, 783-788.	3.1	3
80	A Novel Spatial Power Combiner Amplifier Based on SIW/HMSIW. IEICE Transactions on Electronics, 2009, E92-C, 1098-1101.	0.3	2
81	RED-TXOP scheme for video transmission in IEEE802.11E EDCA WLAN. , 2009, , .		2
82	A Novel Coupler Based on HMSIW. IEICE Transactions on Electronics, 2010, E93-C, 205-207.	0.3	2
83	Current reference with temperature compensation for low power applications. , 2012, , .		2
84	A Novel Balanced Amplifier Based on HMSIW Coupler. Frequenz, 2012, 66, .	0.6	2
85	An all-CMOS self-compensated relaxation oscillator. Analog Integrated Circuits and Signal Processing, 2015, 82, 241-249.	0.9	2
86	Design Techniques for Ultra-Low Voltage Comparator Circuits. Journal of Circuits, Systems and Computers, 2015, 24, 1550013.	1.0	2
87	Wideband CPW-fed slot antenna with parasitic directors for end-fire radiation. IET Microwaves, Antennas and Propagation, 2016, 10, 1734-1739.	0.7	2
88	A low-voltage high-swing colpitts VCO with Inherent tapped capacitors based dynamic body bias technique. , 2017, , .		2
89	A Six-Octave Wideband and Low Profile Log-Period Monopole Endfire Antenna. , 2018, , .		2
90	On the Generation of Truncated Airy Beams with Antenna Arrays. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
91	A High-efficiency Dual-band Wireless Energy Harvesting Circuit. , 2018, , .		2
92	CPW slot antenna with Y-shaped central monopole and matching arms. International Journal of Microwave and Wireless Technologies, 2018, 10, 1166-1174.	1.5	2
93	Linear optimization of antenna array for radiation pattern defined on a planar surface. Journal of Electromagnetic Waves and Applications, 2018, 32, 2030-2045.	1.0	2
94	Millimeter-Wave SIW Filter Based on the Stepped-Impedance Face-to-Face E-Shaped DGSS. , 2019, , .		2
95	Experimental investigations of wave-DSRR interactions in liquid-phase media. Applied Physics Letters, 2019, 114, .	1.5	2
96	Compact and High Efficiency Rectifier Design based on Microstrip Coupled Transmission Line for Energy Harvesting. , 2020, , .		2
97	An Efficient Information Sampling Method for Multi-Category RFID Systems. IEEE Wireless Communications Letters, 2021, 10, 2056-2060.	3.2	2
98	Dual-Mode Microstrip Patch Antennas For Largely Spaced Phased Arrays. , 2020, , .		2
99	Optimization of Large Antenna Arrays for Radiative Wireless Power Transfer. , 2020, , .		2
100	Performance of non-orthogonal multiple access: analysis using compute-and-forward cooperative relaying in 5G networks. IET Communications, 2020, 14, 3058-3064.	1.5	2
101	Design of Optical Gyroscope Based on the Cavity Optomechanics Structure. , 2022, , .		2
102	An injection locked oscillator for direction conversion BPSK modulation applications. , 0, , .		1
103	Left handed metamaterial with $\epsilon < 0$; $\mu > 0$; $\epsilon > 0$; $\mu < 0$; and $\epsilon < 0$; $\mu < 0$; $\epsilon > 0$; $\mu > 0$; and some applications. , 2009, , .		1
104	Extraction of parasitic parameters for QFN32. , 2009, , .		1
105	A Novel Spatial Power Combining Amplifier Based on Quasi-Yagi Antenna. IEICE Transactions on Electronics, 2010, E93-C, 416-419.	0.3	1
106	A compact dual-band circularly polarized squarering slot antenna with a wide angle circularly polarization performance. , 2014, , .		1
107	A 255nW 138kHz RC oscillator for ultra-low power applications. , 2016, , .		1
108	Comparison among different feed network topologies for sequential rotated antenna array. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
109	Simulation for Propagation of High-Power Microwave With Repeated Monopulses in Soil. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1308-1311.	2.4	1
110	Multihop Distance-Bounding for Improving Security and Efficiency of Ad-Hoc Networks. IEEE Internet of Things Journal, 2019, 6, 5312-5323.	5.5	1
111	Study on the Characteristics of Mercury-based Electromagnetic Metamaterials and Its Temperature Sensing Technology. , 2019, , .		1
112	Fast and Automatic RF Design Based on MATLAB-HFSS Control Applied on Magnetic Absorber with Metasurface. , 2019, , .		1
113	Asynchronous Selective Broadcast in Cognitive Radio Ad Hoc Networks. , 2019, , .		1
114	Circular multi-usage RFID tag antenna with coding ability for chipless application. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22432.	0.8	1
115	A Novel Wideband Spatial Power Combining Amplifier Based on Turnstile-Junction Waveguide Divider/Combiner. IEICE Transactions on Electronics, 2011, E94-C, 1479-1482.	0.3	1
116	Research on A Carrier Synchronization Method for Digital Radio Compass. , 2006, , .		0
117	Research on A Carrier Synchronization Method for Digital Radio Compass. , 2006, , .		0
118	Millimeter-Wave Frequency Synthesizers. , 2006, , .		0
119	Perfectly imaging in an equivalent infinite slab lens system composed of loaded transmission line metamaterial. , 2008, , .		0
120	The negative refraction between two-dimensional unloaded and loaded transmission line media. , 2008, , .		0
121	Perfect imaging using negative-refractive-index transmission-line slab with a source in it. , 2008, , .		0
122	Tunneling effect in ferrites based left handed metamaterial. , 2009, , .		0
123	Experimental device of tunable left hand material. , 2009, , .		0
124	Experimental verification of negative refractive index materials using yttrium iron garnet. , 2010, , .		0
125	Simulation research of 802.11n channel model D in NS2. , 2010, , .		0
126	Unified noise analysis of active CMOS mixers in submicron technology. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
127	Wireless Video Streaming QoS Guarantees Based on Virtual Leaky Bucket. , 2011, , .		0
128	Tunable metamaterials based on ferrites and the applications. , 2012, , .		0
129	A novel envelope edge detector for ultra-low power sensor wake-up circuit. , 2013, , .		0
130	A DCSK in multipath fading channels. , 2013, , .		0
131	Broad bandwidth endfire antenna using log-periodic directors. , 2014, , .		0
132	Experimental Analysis of Nonlinear Metamaterials Immersed in Liquid-Phase Medium. , 2018, , .		0
133	Optimization of Circularly Polarized Corner Truncated Patch with Matlab Antenna Toolbox. , 2018, , .		0
134	Wave-Matter Interaction Analysis of Metamaterial Unit Immersed in Liquid Media. , 2018, , .		0
135	High Gain Circularly Polarized Substrate Integrated Coaxial Line Fed Antenna Array for RFID Band. , 2018, , .		0
136	Screw Tightening Monitoring with RFID Passive Tag. , 2018, , .		0
137	Array Pattern Synthesis for ETC Applications. , 2019, , .		0
138	Ultra-wideband Active Absorber Based on Multiple Frequency Selective Surface and Magnetic Layers. , 2019, , .		0
139	Ultra-wideband Dual-layer Magnetic Absorber with Active Impedance Matching. , 2019, , .		0
140	Compact Microwave Passive Components Based on the Metamaterial Unit Cells. , 2019, , .		0
141	Numerical demonstrations of thermally tunable metamaterials based on liquid metals. , 2020, , .		0
142	Miniaturized Sequentially Rotated Curved PIFA Circular Array for Portable Handheld RFID Readers. , 2021, , .		0
143	Focus Beam Synthesis With Circular Antenna Array Based on Radial Waveguide Feed Network. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 748-752.	2.4	0
144	A Novel TRNG Based on Traditional ADC Nonlinear Effect and Chaotic Map for IoT Security and Anticollision. Security and Communication Networks, 2021, 2021, 1-16.	1.0	0

#	ARTICLE	IF	CITATIONS
145	Optimal Contention Window Adjustment for Asymmetry Traffic in Erroneous Channels over IEEE802.11 WLANs. IEICE Transactions on Communications, 2013, E96.B, 1149-1157.	0.4	0
146	Nonlinear Metasurface Antenna Radome for Power Protection Application. , 2019, , .		0
147	Experimental Demonstration of Microwave Airy Beam Generation Based on Metasurface. , 2019, , .		0
148	Demonstrations of Tunable High-Q Asymmetrical Liquid Metamaterial. , 2020, , .		0
149	Dual-port Stacked Annular Ring Microstrip Patch Antenna with Vertical Pins for Isolation Enhancement. , 2021, , .		0
150	Ultra-thin broadband absorber using active non-Foster devices and FSS-magnetic material. , 2021, , .		0
151	On The Evaluation Of Wireless Power Transfer Efficiency Between Two Antenna Apertures In The Fresnel Region Over Wide Bandwidth. , 2021, , .		0
152	Numerical Demonstrations of Beam Reconfigurable Reflective-type Opto-mechanical Metasurface. , 2022, , .		0
153	Research on Lithium Niobate-based Photonic Crystal with Wide Bandgap. , 2022, , .		0
154	Radio Frequency Identification Reader Antenna Design With High Gain And Circular Polarization. , 2022, , .		0