

Xiaodong Chen

List of Publications by Year in descending order

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90
papers

1,381
citations

394421

19
h-index

361022

35
g-index

92
all docs

92
docs citations

92
times ranked

1427
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Performance Study of a Dual-Element Multiband Printed Monopole Antenna Array for MIMO Terminals. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 329-332.	4.0	112
2	Observation of the reversed Cherenkov radiation. <i>Nature Communications</i> , 2017, 8, 14901.	12.8	111
3	Pattern-Reconfigurable Planar Circular Ultra-Wideband Monopole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 4973-4980.	5.1	105
4	Effects of low intensity radiofrequency electromagnetic fields on electrical activity in rat hippocampal slices. <i>Brain Research</i> , 2001, 904, 43-53.	2.2	85
5	High Gain, Broadband and Dual-Polarized Substrate Integrated Waveguide Cavity-Backed Slot Antenna Array for 60 GHz Band. <i>IEEE Access</i> , 2018, 6, 31012-31022.	4.2	75
6	A Small Printed Quasi-Self-Complementary Antenna for Ultrawideband Systems. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 554-557.	4.0	70
7	Low frequency heating of gold nanoparticle dispersions for non-invasive thermal therapies. <i>Nanoscale</i> , 2012, 4, 3945.	5.6	52
8	Millimeter-Wave Rectangular Dielectric Resonator Antenna Array With Enlarged DRA Dimensions, Wideband Capability, and High-Gain Performance. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 3271-3276.	5.1	51
9	Wideband Circularly Polarized Antipodal Curvedly Tapered Slot Antenna Array for 5G Applications. <i>IEEE Journal on Selected Areas in Communications</i> , 2017, 35, 1539-1549.	14.0	46
10	A Wideband Dual-Circular-Polarization Horn Antenna for mmWave Wireless Communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 1726-1730.	4.0	44
11	Analysis and Design of a Novel Circularly Polarized Antipodal Linearly Tapered Slot Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2016, 64, 4178-4187.	5.1	42
12	A Compact Phase-Controlled Pattern-Reconfigurable Dielectric Resonator Antenna for Passive Wide-Angle Beam Scanning. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 2981-2986.	5.1	40
13	Pattern-Reconfigurable Dual-Polarized Dielectric Resonator Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 1273-1276.	4.0	39
14	A Compact Multi-Beam End-Fire Circularly Polarized Septum Antenna Array for Millimeter-Wave Applications. <i>IEEE Access</i> , 2018, 6, 62784-62792.	4.2	31
15	Circularly Polarized Substrate-Integrated Waveguide Tapered Slot Antenna for Millimeter-Wave Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 2358-2361.	4.0	30
16	Circular beam-reconfigurable antenna base on graphene-metal hybrid. <i>Electronics Letters</i> , 2016, 52, 494-496.	1.0	28
17	Analysis and Design of a Wideband Endfire Circularly Polarized Septum Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 5783-5793.	5.1	26
18	Realizing Tunable Inverse and Normal Doppler Shifts in Reconfigurable RF Metamaterials. <i>Scientific Reports</i> , 2015, 5, 11659.	3.3	21

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19	Analysis and Design of a Low-Cost Circularly Polarized Horn Antenna. IEEE Transactions on Antennas and Propagation, 2018, 66, 7363-7367.	5.1	20
20	3d Beam Reconfigurable THz Antenna with Graphene-Based High-Impedance Surface. Electronics (Switzerland), 2019, 8, 1291.	3.1	19
21	A THz Imaging System Using Linear Sparse Periodic Array. IEEE Sensors Journal, 2020, 20, 3285-3292.	4.7	19
22	Graphene-metal based tunable bandpass filters in the terahertz band. IET Microwaves, Antennas and Propagation, 2016, 10, 1570-1575.	1.4	17
23	A Wideband Circular-Polarized Beam Steering Dielectric Resonator Antenna Using Gravitational Ball Lens. IEEE Transactions on Antennas and Propagation, 2021, 69, 2963-2968.	5.1	16
24	A Wideband Contactless CPW to \sqrt{W} -Band Waveguide Transition. IEEE Microwave and Wireless Components Letters, 2019, 29, 706-709.	3.2	15
25	Fast Processing Approach for Near-Field Terahertz Imaging With Linear Sparse Periodic Array. IEEE Sensors Journal, 2022, 22, 4410-4424.	4.7	15
26	Comprehensive study of Ohmic electrical characteristics and optimization of Ti-Al-Mo-Au multilayer Ohmics on undoped AlGaIn-GaN heterostructure. Journal of Applied Physics, 2005, 98, 053701.	2.5	14
27	Multiple-parameter reconfiguration in a single planar ultra-wideband antenna for advanced wireless communication systems. IET Microwaves, Antennas and Propagation, 2014, 8, 849-857.	1.4	13
28	Compact Wideband Circularly Polarized Antipodal Curvedly Tapered Slot Antenna. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 666-669.	4.0	12
29	A Dual-Frequency Quasi-Optical Output System for a THz Gyro-Multiplier. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 674-681.	3.1	10
30	An improved design of orthogonal half disk UWB antenna. , 2006, , .		9
31	Electrical properties of InGaN grown by molecular beam epitaxy. Physica Status Solidi (B): Basic Research, 2008, 245, 868-872.	1.5	9
32	Optimal Spatial Sampling Criterion in a 2D THz Holographic Imaging System. IEEE Access, 2018, 6, 8173-8177.	4.2	9
33	Circular Polarized 3-D-Printed Dielectric Loaded Antenna Using Inset Waveguide-to-Dielectric Transition for 5G Millimeter-Wave Application. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1929-1932.	4.0	9
34	Wideband Dual Circularly Polarized Antipodal Septum Antenna for Millimeter-Wave Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 3549-3554.	5.1	9
35	Design of Millimeter-Wave Circularly Polarized Endfire Antenna and Multibeam Antenna Array for Wireless Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 8397-8406.	5.1	9
36	Dielectric Property Measurement of Gold Nanoparticle Dispersions in the Millimeter Wave Range. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 140-151.	2.2	8

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37	Investigation of Frequency-Selective Surfaces for a THz Gyromultiplier Output System. IEEE Transactions on Electron Devices, 2017, 64, 4678-4685.	3.0	8
38	Novel Corrugated Matched Feed for Cross-Polar Cancellation in Tri-Reflector Compact Range. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1003-1006.	4.0	7
39	Polarization rotator of arbitrary angle based on simple slot-array. AIP Advances, 2015, 5, .	1.3	7
40	Observation of the Zero Doppler Effect. Scientific Reports, 2016, 6, 23973.	3.3	7
41	Novel Pattern-Diverse Millimeter-Wave Antenna With Broadband, High-Gain, Enhanced-Coverage for Energy-Efficient Unmanned Aerial Vehicle. IEEE Transactions on Vehicular Technology, 2021, 70, 4081-4087.	6.3	7
42	A Modular Gaussian Beam Analysis Method Based on 3-D Diffraction Technique. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 362-365.	4.0	6
43	Frequency Mixer Based on Doppler Effect. IEEE Microwave and Wireless Components Letters, 2018, 28, 43-45.	3.2	6
44	Phaseless Characterization of Compact Antenna Test Range via Improved Alternating Projection Algorithm. Electronics (Switzerland), 2021, 10, 1545.	3.1	6
45	Metasurface Concept for mm-Wave Wideband Circularly Polarized Horns Design. IEEE Transactions on Antennas and Propagation, 2021, 69, 4313-4322.	5.1	6
46	Numerical synthesis of triâ€reflector CATR with high crossâ€polarisation isolation. Electronics Letters, 2016, 52, 1286-1288.	1.0	6
47	Energy transport in a metamaterial subwavelength open-cavity resonator. Optics Letters, 2011, 36, 2224.	3.3	4
48	Compact and printed multiband antennas for 2G/3G/4G smartphones. , 2015, , .		4
49	Evaluation of MB OFDM UWB for high data rate applications. , 2012, , .		3
50	Frequency selective surfaces design for a dualâ€channel quasiâ€optical system. Microwave and Optical Technology Letters, 2014, 56, 2365-2369.	1.4	3
51	Wâ€band groovedâ€wall circularly polarised horn antenna. IET Microwaves, Antennas and Propagation, 2020, 14, 1171-1174.	1.4	3
52	BALLISTIC ELECTRON ACCELERATION NEGATIVE-DIFFERENTIAL-CONDUCTIVITY DEVICES. International Journal of High Speed Electronics and Systems, 2007, 17, 173-176.	0.7	2
53	Novel compact monopole antennas for global navigation satellite systems. , 2015, , .		2
54	Doubleâ€square and griddedâ€square loop frequencyâ€selective surface in the Kâ€band. Microwave and Optical Technology Letters, 2018, 60, 1136-1142.	1.4	2

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55	A Gaussian Beam Mode Analysis Method for 3-D Multi-Reflector Quasi-Optical Systems. Electronics (Switzerland), 2021, 10, 499.	3.1	2
56	Study of a two-layer dichroic for quasioptical network. Microwave and Optical Technology Letters, 2010, 52, 900-904.	1.4	1
57	A printed miniature antenna for UWB applications. , 2010, , .		1
58	A printed miniaturised antenna for ultra wideband systems. , 2010, , .		1
59	Study on the Tunneling Mode in a Sub-Wavelength Open-Cavity Resonator Consisting of Single Negative Materials. IEEE Transactions on Antennas and Propagation, 2014, 62, 504-508.	5.1	1
60	Numerical and experimental verification of a trireflector compact antenna test range in the terahertz band. Microwave and Optical Technology Letters, 2015, 57, 1686-1689.	1.4	1
61	A circularly polarized horn antenna with elliptical waveguide polarizer. Microwave and Optical Technology Letters, 2019, 61, 2681-2686.	1.4	1
62	Phase-Controlled Pattern Diversity Antenna for 360°Continuous Beam Steering. , 2020, , .		1
63	Wideband Dual-Circular-Polarization Antenna based on the Grooved-Wall Horn Antenna for Millimeter-Wave Wireless Communications. , 2021, , .		1
64	Design of High Performance Terahertz Tri-reflector CATR with Ultra-Large Aperture. , 2021, , .		1
65	A 170~260 GHz CPW to Waveguide Contactless Transition Using Interdigital-pin EBG Structure. , 2020, , .		1
66	A Millimeter-Wave Slot Antenna Array Radiating Sum and Difference Beams with Suppressed Sidelobe. , 2020, , .		1
67	Unified Initial Preprocessing for Phaseless Characterization of Quiet Zone in Millimeter-Wave Compact Antenna Test Range. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1313-1317.	4.0	1
68	FOCUSED THERMAL BEAM DIRECT PATTERNING ON INGAN DURING MOLECULAR BEAM EPITAXY. International Journal of High Speed Electronics and Systems, 2007, 17, 97-101.	0.7	0
69	Diversity combining for enhanced UWB system performance. , 2011, , .		0
70	Photoconductive characteristics of silicon in millimeter-wave bands. , 2012, , .		0
71	Antennas for multi-mode GNSS applications. , 2012, , .		0
72	Frequency- and time-domain performance of a miniature planar ultra-wideband antenna. Microwave and Optical Technology Letters, 2013, 55, 1058-1065.	1.4	0

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73	Study of UWB adaptive bit loading in time varying channel. , 2013, , .		0
74	Design of a Compact Planar Antenna for UWB Systems. Microwave and Optical Technology Letters, 2013, 55, 1989-1992.	1.4	0
75	Numerical and Experimental Verification of a 3D Quasi-Optical System. International Journal of Antennas and Propagation, 2015, 2015, 1-10.	1.2	0
76	Observation of the inverse, zero and normal Doppler effect in configurable transmission lines. , 2015, , .		0
77	Low-pass Frequency Selective Surface for a Dual-band Gyro-multiplier Characterized by THz-TDS. , 2018, , .		0
78	A Continuously Tunable Pattern Reconfigurable Dielectric Resonator Antenna for IEEE 802.11ac Applications. , 2018, , .		0
79	Theoretical and Experimental Comparison Results of Dual-Channel 3D Quasi-Optical Network System between Frequency Selective Surface and Wire Grid Polarizer. International Journal of Antennas and Propagation, 2018, 2018, 1-18.	1.2	0
80	Millimeter-Wave (MMW) Wideband Circularly Polarized Antenna Based on Gap-Waveguide. , 2019, , .		0
81	Experimental Testing of a W-band spatial harmonic magnetron. , 2019, , .		0
82	Dielectric Resonator Antenna Fed by the Surface-wave Goubau line. , 2020, , .		0
83	Design of Low Cross-Polarization Tri-Reflector CATR with Standard Quadric Surfaces Working in Terahertz. Electronics (Switzerland), 2021, 10, 1727.	3.1	0
84	BALLISTIC ELECTRON ACCELERATION NEGATIVE-DIFFERENTIAL-CONDUCTIVITY DEVICES. , 2007, , .		0
85	FOCUSED THERMAL BEAM DIRECT PATTERNING ON INGAN DURING MOLECULAR BEAM EPITAXY. , 2007, , .		0
86	A Shared-Aperture Dielectric Resonator Antenna with Linear and Circular Polarization Diversity. , 2021, , .		0
87	A Design Method of Three-Dimensional Multireflector Quasi-Optical Systems Based on Gaussian Beam Mode Analysis. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 798-802.	4.0	0
88	A broadband coplanar waveguide to WR4 contactless transition using interdigitalâ€pin electromagnetic bandgap structure. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	1.2	0
89	A resonant cavity system for exposing cell cultures to intense pulsed RF fields. Scientific Reports, 2022, 12, 4755.	3.3	0
90	Highâ€Gain Dual Circularly Polarized Antenna for Airâ€toâ€Ground Wireless Link. Chinese Journal of Electronics, 2022, 31, 555-561.	1.5	0