

Zhi Ning Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Low-Profile Wideband Metasurface Antennas Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2017, 65, 1706-1713.	3.1	360
2	Small Printed Ultrawideband Antenna With Reduced Ground Plane Effect. IEEE Transactions on Antennas and Propagation, 2007, 55, 383-388.	3.1	327
3	Wideband monopole antennas for multi-band wireless systems. IEEE Antennas and Propagation Magazine, 2003, 45, 146-150.	1.2	303
4	Metamaterial-Based Low-Profile Broadband Mushroom Antenna. IEEE Transactions on Antennas and Propagation, 2014, 62, 1165-1172.	3.1	299
5	Considerations for Source Pulses and Antennas in UWB Radio Systems. IEEE Transactions on Antennas and Propagation, 2004, 52, 1739-1748.	3.1	275
6	Metamaterial-Based Low-Profile Broadband Aperture-Coupled Grid-Slotted Patch Antenna. IEEE Transactions on Antennas and Propagation, 2015, 63, 3325-3329.	3.1	263
7	Design and Modeling of Spoof Surface Plasmon Modes-Based Microwave Slow-Wave Transmission Line. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1817-1825.	2.9	260
8	Asymmetric-Circular Shaped Slotted Microstrip Antennas for Circular Polarization and RFID Applications. IEEE Transactions on Antennas and Propagation, 2010, 58, 3821-3828.	3.1	258
9	Metamaterial-Based Thin Planar Lens Antenna for Spatial Beamforming and Multibeam Massive MIMO. IEEE Transactions on Antennas and Propagation, 2017, 65, 464-472.	3.1	236
10	Bandwidth Enhancement for a 60 GHz Substrate Integrated Waveguide Fed Cavity Array Antenna on LTCC. IEEE Transactions on Antennas and Propagation, 2011, 59, 826-832.	3.1	224
11	A Universal UHF RFID Reader Antenna. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1275-1282.	2.9	210
12	A High Gain Antenna With an Optimized Metamaterial Inspired Superstrate. IEEE Transactions on Antennas and Propagation, 2012, 60, 6018-6023.	3.1	202
13	Dual-Band Circularly Polarized \$\$\$-Shaped Slotted Patch Antenna With a Small Frequency-Ratio. IEEE Transactions on Antennas and Propagation, 2010, 58, 2112-2115.	3.1	191
14	Axial Ratio Bandwidth Enhancement of 60-GHz Substrate Integrated Waveguide-Fed Circularly Polarized LTCC Antenna Array. IEEE Transactions on Antennas and Propagation, 2012, 60, 4619-4626.	3.1	190
15	Impedance Characterization of RFID Tag Antennas and Application in Tag Co-Design. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1268-1274.	2.9	187
16	Compact Asymmetric-Slit Microstrip Antennas for Circular Polarization. IEEE Transactions on Antennas and Propagation, 2011, 59, 285-288.	3.1	175
17	Enhanced Isolation of a Closely Spaced Four-Element MIMO Antenna System Using Metamaterial Mushroom. IEEE Transactions on Antennas and Propagation, 2015, 63, 3362-3370.	3.1	166
18	A Dual-Band Metasurface Antenna Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2018, 66, 5620-5624.	3.1	166

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19	Miniaturized Wideband Metasurface Antennas. IEEE Transactions on Antennas and Propagation, 2017, 65, 7345-7349.	3.1	160
20	Bandwidth Enhancement of a Single-Feed Circularly Polarized Antenna Using a Metasurface: Metamaterial-based wideband CP rectangular microstrip antenna. IEEE Antennas and Propagation Magazine, 2016, 58, 39-46.	1.2	154
21	An Ultrawideband Diversity Antenna. IEEE Transactions on Antennas and Propagation, 2009, 57, 1597-1605.	3.1	150
22	A Broadband UHF Near-Field RFID Antenna. IEEE Transactions on Antennas and Propagation, 2010, 58, 3829-3838.	3.1	147
23	Planar antennas. IEEE Microwave Magazine, 2006, 7, 63-73.	0.7	145
24	A Compact Circularly Polarized Cross-Shaped Slotted Microstrip Antenna. IEEE Transactions on Antennas and Propagation, 2012, 60, 1584-1588.	3.1	139
25	Substrate Integrated Waveguide Cavity-Backed Wide Slot Antenna for 60-GHz Bands. IEEE Transactions on Antennas and Propagation, 2012, 60, 6023-6026.	3.1	139
26	A Method of Suppressing Higher Order Modes for Improving Radiation Performance of Metasurface Multiport Antennas Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2018, 66, 1894-1902.	3.1	139
27	Redirection of sound waves using acoustic metasurface. Applied Physics Letters, 2013, 103, .	1.5	136
28	Gain Enhancement of 60-GHz Antipodal Tapered Slot Antenna Using Zero-Index Metamaterial. IEEE Transactions on Antennas and Propagation, 2013, 61, 1741-1746.	3.1	135
29	Metasurface-Based Shared-Aperture 5G S -Polarized K -Band Antenna Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2018, 66, 6742-6750.	3.1	134
30	A Single-Layered Spoof-Plasmon-Mode Leaky Wave Antenna With Consistent Gain. IEEE Transactions on Antennas and Propagation, 2017, 65, 681-687.	3.1	126
31	Low-Loss Spoof Surface Plasmon Slow-Wave Transmission Lines With Compact Transition and High Isolation. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3078-3086.	2.9	124
32	Metantenna: When Metasurface Meets Antenna Again. IEEE Transactions on Antennas and Propagation, 2020, 68, 1332-1347.	3.1	122
33	Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. IEEE Journal on Selected Areas in Communications, 2014, 32, 1194-1206.	9.7	115
34	Proximity Effects of Metallic Environments on High Frequency RFID Reader Antenna: Study and Applications. IEEE Transactions on Antennas and Propagation, 2007, 55, 3105-3111.	3.1	114
35	Gain-Enhanced 60-GHz LTCC Antenna Array With Open Air Cavities. IEEE Transactions on Antennas and Propagation, 2011, 59, 3470-3473.	3.1	110
36	A Flat Dual-Polarized Transformation-Optics Beamscanning Luneburg Lens Antenna Using PCB-Stacked Gradient Index Metamaterials. IEEE Transactions on Antennas and Propagation, 2018, 66, 5088-5097.	3.1	109

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37	Broadband Double-Layered Huygens's™ Metasurface Lens Antenna for 5G Millimeter-Wave Systems. IEEE Transactions on Antennas and Propagation, 2020, 68, 1468-1476.	3.1	104
38	Substrate Integrated Metamaterial-Based Leaky-Wave Antenna With Improved Boresight Radiation Bandwidth. IEEE Transactions on Antennas and Propagation, 2013, 61, 3451-3457.	3.1	100
39	A Compact Circularly Polarized Slotted Patch Antenna for GNSS Applications. IEEE Transactions on Antennas and Propagation, 2014, 62, 6506-6509.	3.1	98
40	140-GHz Planar Broadband LTCC SIW Slot Antenna Array. IEEE Transactions on Antennas and Propagation, 2012, 60, 3025-3028.	3.1	95
41	Spoof Plasmon-Based Slow-Wave Excitation of Dielectric Resonator Antennas. IEEE Transactions on Antennas and Propagation, 2016, 64, 2094-2099.	3.1	91
42	Shared-Surface Dual-Band Antenna for 5G Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 1128-1133.	3.1	91
43	Wideband Millimeter-Wave Substrate Integrated Waveguide Slotted Narrow-Wall Fed Cavity Antennas. IEEE Transactions on Antennas and Propagation, 2011, 59, 1488-1496.	3.1	88
44	Multilayered Composite Right/Left-Handed Leaky-Wave Antenna With Consistent Gain. IEEE Transactions on Antennas and Propagation, 2012, 60, 5056-5062.	3.1	88
45	140-GHz m TE ₂₀ -Mode Dielectric-Loaded SIW Slot Antenna Array in LTCC. IEEE Transactions on Antennas and Propagation, 2013, 61, 1784-1793.	3.1	88
46	77-GHz Dual-Layer Transmit-Array for Automotive Radar Applications. IEEE Transactions on Antennas and Propagation, 2015, 63, 2833-2837.	3.1	86
47	Subwavelength Substrate-Integrated Fabry-Pérot Cavity Antennas Using Artificial Magnetic Conductor. IEEE Transactions on Antennas and Propagation, 2012, 60, 30-35.	3.1	84
48	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. Scientific Reports, 2014, 4, 6257.	1.6	81
49	A Compact Differential Filtering Quasi-Yagi Antenna With High Frequency Selectivity and Low Cross-Polarization Levels. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1573-1576.	2.4	79
50	A Beam Scanning Leaky-Wave Slot Antenna With Enhanced Scanning Angle Range and Flat Gain Characteristic Using Composite Phase-Shifting Transmission Line. IEEE Transactions on Antennas and Propagation, 2014, 62, 5871-5875.	3.1	78
51	Truncated Impedance Sheet Model for Low-Profile Broadband Nonresonant-Cell Metasurface Antennas Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2018, 66, 5043-5051.	3.1	77
52	A UWB Dipole Antenna With Enhanced Impedance and Gain Performance. IEEE Transactions on Antennas and Propagation, 2009, 57, 2959-2966.	3.1	76
53	60-GHz Thin Broadband High-Gain LTCC Metamaterial-Mushroom Antenna Array. IEEE Transactions on Antennas and Propagation, 2014, 62, 4592-4601.	3.1	76
54	Experimental Characterization of UWB Antennas for On-Body Communications. IEEE Transactions on Antennas and Propagation, 2009, 57, 866-874.	3.1	75

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55	Single-Layered SIW Post-Loaded Electric Coupling-Enhanced Structure and Its Filter Applications. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 125-130.	2.9	74
56	Design of 3-D Multilayer Ferrite-Loaded Frequency-Selective Rasorbers With Wide Absorption Bands. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 108-117.	2.9	74
57	Planar Filtering Ultra-Wideband (UWB) Antenna With Shorting Pins. IEEE Transactions on Antennas and Propagation, 2013, 61, 948-953.	3.1	72
58	Microstrip Patch Antennas With Enhanced Gain by Partial Substrate Removal. IEEE Transactions on Antennas and Propagation, 2010, 58, 2811-2816.	3.1	71
59	Slotted Microstrip Antennas for Circular Polarization with Compact Size. IEEE Antennas and Propagation Magazine, 2013, 55, 124-137.	1.2	71
60	Wideband Substrate-Integrated Waveguide-Fed Endfire Metasurface Antenna Array. IEEE Transactions on Antennas and Propagation, 2018, 66, 7032-7040.	3.1	70
61	Wideband and Wide-Angle Single-Layered-Substrate Linear-to-Circular Polarization Metasurface Converter. IEEE Transactions on Antennas and Propagation, 2020, 68, 1186-1191.	3.1	70
62	Broadband Low-Profile L-Probe Fed Metasurface Antenna With TM Leaky Wave and TE Surface Wave Resonances. IEEE Transactions on Antennas and Propagation, 2020, 68, 1348-1355.	3.1	70
63	Characterization of Metasurface Lens Antenna for Sub-6 GHz Dual-Polarization Full-Dimension Massive MIMO and Multibeam Systems. IEEE Transactions on Antennas and Propagation, 2020, 68, 1366-1377.	3.1	69
64	Design of a human-head-equivalent phantom for ISM 2.4-GHz applications. Microwave and Optical Technology Letters, 2005, 47, 163-166.	0.9	67
65	Transmission of RF Signals Between MICS Loop Antennas in Free Space and Implanted in the Human Head. IEEE Transactions on Antennas and Propagation, 2009, 57, 1850-1854.	3.1	67
66	Circular Polarization and Mode Reconfigurable Wideband Orbital Angular Momentum Patch Array Antenna. IEEE Transactions on Antennas and Propagation, 2018, 66, 1796-1804.	3.1	67
67	Dual-Beam Filtering Patch Antennas for Wireless Communication Application. IEEE Transactions on Antennas and Propagation, 2018, 66, 3730-3734.	3.1	67
68	Symmetric-Aperture Antenna for Broadband Circular Polarization. IEEE Transactions on Antennas and Propagation, 2011, 59, 3932-3936.	3.1	66
69	Enhanced Bandwidth and Directivity of a Dual-Mode Compressed High-Order Mode Stub-Loaded Dipole Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2019, 67, 1922-1925.	3.1	66
70	Novel bi-arm rolled monopole for UWB applications. IEEE Transactions on Antennas and Propagation, 2005, 53, 672-677.	3.1	65
71	An Investigation Into Measurement of Handset Antennas. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1100-1110.	2.4	63
72	Electrically Large Zero-Phase-Shift Line Grid-Array UHF Near-Field RFID Reader Antenna. IEEE Transactions on Antennas and Propagation, 2014, 62, 2201-2208.	3.1	62

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73	A Planar UWB Diversity Antenna. IEEE Transactions on Antennas and Propagation, 2009, 57, 3467-3473.	3.1	60
74	Antennas for WiFi Connectivity. Proceedings of the IEEE, 2012, 100, 2322-2329.	16.4	60
75	A Broadband Circularly Polarized Stacked Probe-Fed Patch Antenna for UHF RFID Applications. International Journal of Antennas and Propagation, 2007, 2007, 1-8.	0.7	59
76	Ultrathin Broadband Absorber Using Frequency-Selective Surface and Frequency-Dispersive Magnetic Materials. IEEE Transactions on Antennas and Propagation, 2017, 65, 5886-5894.	3.1	59
77	Electrically Large Dual-Loop Antenna for UHF Near-Field RFID Reader. IEEE Transactions on Antennas and Propagation, 2013, 61, 1019-1025.	3.1	58
78	CPW Center-Fed Single-Layer SIW Slot Antenna Array for Automotive Radars. IEEE Transactions on Antennas and Propagation, 2014, 62, 4528-4536.	3.1	58
79	Wideband Sidelobe-Level Reduced Ka-Band Metasurface Antenna Array Fed by Substrate-Integrated Gap Waveguide Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2020, 68, 1356-1365.	3.1	58
80	A wideband circularly polarized stacked slotted microstrip patch antenna. IEEE Antennas and Propagation Magazine, 2013, 55, 84-99.	1.2	57
81	A Low-Profile Wideband Hybrid Metasurface Antenna Array for 5G and WiFi Systems. IEEE Transactions on Antennas and Propagation, 2020, 68, 665-671.	3.1	57
82	Realization of Beam Steering Based on Plane Spiral Orbital Angular Momentum Wave. IEEE Transactions on Antennas and Propagation, 2018, 66, 1352-1358.	3.1	55
83	Resonant Metasurface Antennas With Resonant Apertures: Characteristic Mode Analysis and Dual-Polarized Broadband Low-Profile Design. IEEE Transactions on Antennas and Propagation, 2021, 69, 3512-3516.	3.1	54
84	Wide Bandwidth and Enhanced Gain of a Low-Profile Dipole Antenna Achieved by Integrated Suspended Metasurface. IEEE Transactions on Antennas and Propagation, 2018, 66, 1540-1544.	3.1	52
85	A Radial Transformation-Optics Mapping for Flat Ultra-Wide-Angle Dual-Polarized Stacked GRIN MTM Luneburg Lens Antenna. IEEE Transactions on Antennas and Propagation, 2019, 67, 2961-2970.	3.1	52
86	A Substrate Integrated Cavity Backed Filtering Slot Antenna Stacked With a Patch for Frequency Selectivity Enhancement. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1910-1914.	2.4	51
87	Miniaturized Patch Antenna With Grounded Strips. IEEE Transactions on Antennas and Propagation, 2015, 63, 843-848.	3.1	50
88	Synthesis Method for Substrate-Integrated Waveguide Bandpass Filter With Even-Order Chebyshev Response. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 126-135.	1.4	49
89	270-GHz LTCC-Integrated High Gain Cavity-Backed Fresnel Zone Plate Lens Antenna. IEEE Transactions on Antennas and Propagation, 2013, 61, 1679-1687.	3.1	47
90	Compact Wideband Wide-Angle Polarization-Free Metasurface Lens Antenna Array for Multibeam Base Stations. IEEE Transactions on Antennas and Propagation, 2020, 68, 1378-1388.	3.1	44

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91	A microstrip patch antenna with broadened beamwidth. Microwave and Optical Technology Letters, 2008, 50, 1885-1888.	0.9	43
92	Mutual Coupling Reduction of a Closely Spaced Four-Element MIMO Antenna System Using Discrete Mushrooms. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3060-3067.	2.9	43
93	Considering High-Performance Near-Field Reader Antennas: Comparisons of Proposed Antenna Layouts for Ultrahigh-Frequency Near-Field Radio-Frequency Identification. IEEE Antennas and Propagation Magazine, 2018, 60, 14-26.	1.2	43
94	Characteristics of a Metal-Backed Loop Antenna and its Application to a High-Frequency RFID Smart Shelf. IEEE Antennas and Propagation Magazine, 2009, 51, 26-38.	1.2	42
95	Compact Pattern-Reconfigurable Monopole Antenna Using Parasitic Strips. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 557-560.	2.4	42
96	A Compact Beamsteering Metasurface Lens Array Antenna With Low-Cost Phased Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 1992-2002.	3.1	42
97	60-GHz End-Fire Fan-Like Antennas With Wide Beamwidth. IEEE Transactions on Antennas and Propagation, 2013, 61, 1616-1622.	3.1	41
98	Gain Enhancement of Beam Scanning Substrate Integrated Waveguide Slot Array Antennas Using a Phase-Correcting Grating Cover. IEEE Transactions on Antennas and Propagation, 2014, 62, 4584-4591.	3.1	41
99	Miniature Wideband Non-Uniform Metasurface Antenna Using Equivalent Circuit Model. IEEE Transactions on Antennas and Propagation, 2020, 68, 5652-5657.	3.1	41
100	A metamaterial-based broadband circularly polarized aperture-fed grid-slotted patch antenna. , 2015, , .		40
101	An Omnidirectional Circularly Polarized Antenna Array. IEEE Transactions on Antennas and Propagation, 2016, 64, 574-581.	3.1	40
102	Control of Beam Direction for Substrate-Integrated Waveguide Slot Array Antenna Using Metasurface. IEEE Transactions on Antennas and Propagation, 2018, 66, 2862-2869.	3.1	40
103	Full Modeling, Loss Reduction, and Mutual Coupling Control of Spoof Surface Plasmon-Based Meander Slow Wave Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3764-3772.	2.9	40
104	Characteristic Mode Analysis and Metasurface- Based Suppression of Higher Order Modes of a 2×2 Closely Spaced Phased Array. IEEE Transactions on Antennas and Propagation, 2017, 65, 1141-1150.	3.1	39
105	Sidelobe Suppression of Metalens Antenna by Amplitude and Phase Controllable Metasurfaces. IEEE Transactions on Antennas and Propagation, 2021, 69, 6977-6981.	3.1	39
106	Broadband Dual-Polarized Single-Layer Reflectarray Antenna With Independently Controllable 1-Bit Dual Beams. IEEE Transactions on Antennas and Propagation, 2021, 69, 3294-3302.	3.1	37
107	Wideband Reconfigurable Rolled Planar Monopole Antenna. IEEE Transactions on Antennas and Propagation, 2007, 55, 1760-1767.	3.1	36
108	Dual-Band Miniaturized Linear-to-Circular Metasurface Polarization Converter With Wideband and Wide-Angle Axial Ratio. IEEE Transactions on Antennas and Propagation, 2021, 69, 9021-9025.	3.1	36

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109	Experimental study on radiation performance of probe-fed suspended plate antennas. IEEE Transactions on Antennas and Propagation, 2003, 51, 1964-1971.	3.1	34
110	Ultrawideband Suspended Plate Antenna With Enhanced Impedance and Radiation Performance. IEEE Transactions on Antennas and Propagation, 2008, 56, 2490-2495.	3.1	33
111	A Single-Layer Dual-Polarized Differentially Fed Patch Antenna With Enhanced Gain and Bandwidth Operating at Dual Compressed High-Order Modes Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2020, 68, 4082-4087.	3.1	33
112	Simplification and Implementation of Decoupling and Matching Network With Port Pattern-Shaping Capability for Two Closely Spaced Antennas. IEEE Transactions on Antennas and Propagation, 2015, 63, 3695-3699.	3.1	32
113	Slit-Slot Line and Its Application to Low Cross-Polarization Slot Antenna and Mutual-Coupling Suppressed Tripolarized MIMO Antenna. IEEE Transactions on Antennas and Propagation, 2019, 67, 4-15.	3.1	32
114	Compressed Dipoles Resonating at Higher Order Modes With Enhanced Directivity. IEEE Transactions on Antennas and Propagation, 2017, 65, 5697-5701.	3.1	31
115	Signal optimization for UWB radio systems. IEEE Transactions on Antennas and Propagation, 2005, 53, 2178-2184.	3.1	30
116	Independent Mobility Achieved through a Wireless Brain-Machine Interface. PLoS ONE, 2016, 11, e0165773.	1.1	30
117	Dielectric Metamaterial-Based Impedance-Matched Elements for Broadband Reflectarray. IEEE Transactions on Antennas and Propagation, 2017, 65, 7019-7028.	3.1	30
118	A Dual-Broadband Dual-Polarized Directional Antenna for All-Spectrum Access Base Station Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 1874-1884.	3.1	30
119	High-Efficiency Metalens Antenna Using Huygens's™ Metasurface With Glide Symmetric I-Shape Metal Strips. IEEE Transactions on Antennas and Propagation, 2021, 69, 7394-7403.	3.1	30
120	A Directional, Closely Spaced Zero-Phase-Shift-Line Loop Array for UHF Near-Field RFID Reader Antennas. IEEE Transactions on Antennas and Propagation, 2018, 66, 5639-5642.	3.1	29
121	Low-Profile 2-D THz Airy Beam Generator Using the Phase-Only Reflective Metasurface. IEEE Transactions on Antennas and Propagation, 2020, 68, 1503-1513.	3.1	29
122	Wideband circularly polarized microstrip antenna array using a new single feed network. Microwave and Optical Technology Letters, 2008, 50, 1784-1789.	0.9	27
123	Single-Layer Dual-Band Microwave Metasurface Cloak of Conducting Cylinder. IEEE Transactions on Antennas and Propagation, 2019, 67, 4286-4290.	3.1	27
124	A Printed Ultra-Wideband Diversity Antenna. , 2006, , .		26
125	Compact Substrate Integrated Waveguide Slot Antenna Array With Low Back Lobe. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 999-1002.	2.4	26
126	Single-Beam 1 Bit Reflective Metasurface Using Prephased Unit Cells for Normally Incident Plane Waves. IEEE Transactions on Antennas and Propagation, 2020, 68, 5496-5504.	3.1	25

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127	Prior-Knowledge-Guided Deep-Learning-Enabled Synthesis for Broadband and Large Phase Shift Range Metacells in Metalens Antenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 5024-5034.	3.1	25
128	270-GHz LTCC-Integrated Strip-Loaded Linearly Polarized Radial Line Slot Array Antenna. IEEE Transactions on Antennas and Propagation, 2013, 61, 1794-1801.	3.1	24
129	Broadband and Ultrathin Frequency-Dispersive Metamaterial Screen for Reflectivity Reduction. IEEE Transactions on Antennas and Propagation, 2015, 63, 4156-4160.	3.1	24
130	Enhanced Radiation From a Horizontal Dipole Closely Placed Above a PEC Ground Plane Using a Parasitic Strip. IEEE Transactions on Antennas and Propagation, 2016, 64, 4868-4871.	3.1	24
131	Characteristic Mode-Inspired Advanced Multiple Antennas: Intuitive insight into element-, interelement-, and array levels of compact large arrays and metantennas. IEEE Antennas and Propagation Magazine, 2022, 64, 49-57.	1.2	24
132	Dual elliptically tapered antipodal slot antenna loaded by curved terminations for ultrawideband applications. Radio Science, 2006, 41, n/a-n/a.	0.8	23
133	Broadband and Compact Coupled Coplanar Stripline Filters With Impedance Steps. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2874-2886.	2.9	23
134	A Wideband Ultra-Thin Differential Loop-Fed Patch Antenna for Head Implants. IEEE Transactions on Antennas and Propagation, 2015, 63, 3244-3248.	3.1	23
135	Probe-fed broadband low-profile metasurface antennas using characteristic mode analysis. , 2017, , .		23
136	Broadband Polarization Conversion Metasurface for Antenna RCS Reduction. IEEE Transactions on Antennas and Propagation, 2022, 70, 3834-3839.	3.1	23
137	An Electromagnetically Coupled UWB Plate Antenna. IEEE Transactions on Antennas and Propagation, 2008, 56, 1476-1479.	3.1	22
138	A Planar UWB Antenna With a Broadband Feeding Structure. IEEE Transactions on Antennas and Propagation, 2009, 57, 2172-2175.	3.1	22
139	Compact circularly polarized asymmetric slotted microstrip patch antennas. Microwave and Optical Technology Letters, 2012, 54, 1920-1927.	0.9	21
140	Miniaturized broadband metasurface antenna using stepped impedance resonators. , 2016, , .		21
141	Radiation Pattern Improvement of Cross-Band Dipoles Using Inductive-Loading Mode-Suppression Method. IEEE Transactions on Antennas and Propagation, 2019, 67, 3467-3471.	3.1	21
142	Empirical Formula of Cavity Dominant Mode Frequency for 60-GHz Cavity-Backed Wide Slot Antenna. IEEE Transactions on Antennas and Propagation, 2013, 61, 969-972.	3.1	20
143	Non-Line-of-Sight Channel Performance of Plane Spiral Orbital Angular Momentum MIMO Systems. IEEE Access, 2017, 5, 25377-25384.	2.6	20
144	UWB Antennas: From Hype, Promise to Reality. , 2007, , .		19

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145	Monopole-like slot UWB antenna on LTCC. , 2008, , .		19
146	Compact circularly polarized microstrip antenna for RFID handheld reader applications. , 2009, , .		19
147	Modeling and Characterization of Zero-Phase-Shift Lines and Optimization of Electrically Large ZPSL Loop Antennas for Near-Field Systems. IEEE Transactions on Antennas and Propagation, 2016, 64, 4587-4594.	3.1	19
148	Correlation analysis of UWB MIMO antenna system configurations. , 2008, , .		18
149	Compact Dual-Band and Ultrawideband Loop Antennas. IEEE Transactions on Antennas and Propagation, 2011, 59, 2774-2779.	3.1	18
150	A Planar Dualband Antenna Array. IEEE Transactions on Antennas and Propagation, 2011, 59, 833-838.	3.1	18
151	Dualâ€squareâ€ringâ€shaped slot antenna for wideband circularly polarized radiation. Microwave and Optical Technology Letters, 2014, 56, 2645-2649.	0.9	18
152	Negative Reflection and Negative Refraction in Biaxial van der Waals Materials. Nano Letters, 2022, 22, 5607-5614.	4.5	18
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