

# Yan Zhang

## List of Publications by Year in descending order

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69  
papers

2,983  
citations

236833

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233338

45  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2274  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multibeam Antenna Technologies for 5G Wireless Communications. IEEE Transactions on Antennas and Propagation, 2017, 65, 6231-6249.	3.1	753
2	Planar Ultrawideband Antennas With Multiple Notched Bands Based on Etched Slots on the Patch and/or Split Ring Resonators on the Feed Line. IEEE Transactions on Antennas and Propagation, 2008, 56, 3063-3068.	3.1	265
3	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
4	Wideband Millimeter-Wave Substrate Integrated Waveguide Cavity-Backed Rectangular Patch Antenna. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 205-208.	2.4	148
5	Design and Analysis of SIW Cavity Backed Dual-Band Antennas With a Dual-Mode Triangular-Ring Slot. IEEE Transactions on Antennas and Propagation, 2014, 62, 5007-5016.	3.1	123
6	Substrate Integrated Waveguide Quasi-Elliptic Filters With Controllable Electric and Magnetic Mixed Coupling. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3071-3078.	2.9	118
7	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
8	Design of High-Directivity Compact-Size Conical Horn Lens Antenna. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 467-470.	2.4	87
9	Development of Ultrawideband Antenna With Multiple Band-Notched Characteristics Using Half Mode Substrate Integrated Waveguide Cavity Technology. IEEE Transactions on Antennas and Propagation, 2008, 56, 2894-2902.	3.1	83
10	A Folded Reflectarray Antenna With a Planar SIW Slot Array Antenna as the Primary Source. IEEE Transactions on Antennas and Propagation, 2014, 62, 3575-3583.	3.1	71
11	Performance analysis of a printed superwideband antenna. Microwave and Optical Technology Letters, 2009, 51, 949-956.	0.9	65
12	Half Mode Substrate Integrated Waveguide 180° 3-dB Directional Couplers. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2586-2592.	2.9	57
13	Single-Layer Wideband Circularly Polarized Patch Antennas for Q-Band Applications. IEEE Transactions on Antennas and Propagation, 2015, 63, 409-414.	3.1	55
14	Patch Antenna Loaded With Paired Shorting Pins and H-Shaped Slot for 28/38 GHz Dual-Band MIMO Applications. IEEE Access, 2020, 8, 23705-23712.	2.6	50
15	Integrated Broadband Circularly Polarized Multibeam Antennas Using Berry-Phase Transmit-Arrays for Ka-Band Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 859-872.	3.1	49
16	Half-mode substrate integrated waveguide (HMSIW) double-slot coupler. Electronics Letters, 2007, 43, 113.	0.5	47
17	Gain-assisted ultra-high-Q spoof plasmonic resonator for the sensing of polar liquids. Optics Express, 2018, 26, 25460.	1.7	46
18	A Ka-Band Reflectarray Implemented With a Single-Layer Perforated Dielectric Substrate. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 600-603.	2.4	42

#	ARTICLE	IF	CITATIONS
19	A Survey of Millimeter-Wave Communication: Physical-Layer Technology Specifications and Enabling Transmission Technologies. Proceedings of the IEEE, 2021, 109, 1666-1705.	16.4	41
20	On the Synthesis of a Flat Lens using a Wideband Low-Reflection Gradient-Index Metamaterial. Journal of Electromagnetic Waves and Applications, 2011, 25, 2178-2187.	1.0	35
21	W-Band Multilayer Perforated Dielectric Substrate Lens. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 734-737.	2.4	35
22	45 GHz Wideband Circularly Polarized Planar Antenna Array Using Inclined Slots in Modified Short-Circuited SIW. IEEE Transactions on Antennas and Propagation, 2019, 67, 1669-1680.	3.1	33
23	Anisotropic Impedance Surface-Enabled Low-Profile Broadband Dual-Circularly Polarized Multibeam Reflectarrays for Ka-Band Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 6441-6446.	3.1	33
24	A Compact Single-Layer Q-Band Tapered Slot Antenna Array With Phase-Shifting Inductive Windows for Endfire Patterns. IEEE Transactions on Antennas and Propagation, 2019, 67, 169-178.	3.1	26
25	Planar Substrate-Integrated Endfire Antenna With Wide Beamwidth for Q-Band Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1990-1993.	2.4	25
26	A Compact Triple-Band Antenna With a Notched Ultra-Wideband and Its MIMO Array. IEEE Transactions on Antennas and Propagation, 2018, 66, 7021-7031.	3.1	25
27	Selectively Metalizable Stereolithography Resin for Three-Dimensional DC and High-Frequency Electronics via Hybrid Additive Manufacturing. ACS Applied Materials & Interfaces, 2021, 13, 22891-22901.	4.0	25
28	A Broadband Circularly Polarized Reflectarray With Magneto-Electric Dipole Elements. IEEE Transactions on Antennas and Propagation, 2021, 69, 7005-7010.	3.1	24
29	Design and Implementation of an Active Array Antenna With Remote Controllable Radiation Patterns for Mobile Communications. IEEE Transactions on Antennas and Propagation, 2014, 62, 913-921.	3.1	23
30	An SICL-Excited Wideband Circularly Polarized Cavity-Backed Patch Antenna for IEEE 802.11aj (45 GHz) Applications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1265-1268.	2.4	23
31	A Broadband Circularly Polarized Patch Antenna With Improved Axial Ratio. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1180-1183.	2.4	21
32	Triangular Ring Antennas for Dual-Frequency Dual-Polarization or Circular-Polarization Operations. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 971-974.	2.4	20
33	A Novel E-plane-Focused Cylindrical Luneburg Lens Loaded With Metal Grids for Sidelobe Level Reduction. IEEE Transactions on Antennas and Propagation, 2020, 68, 736-744.	3.1	18
34	Systematic design of planar lenses using artificial dielectrics. , 2010, , .		15
35	Wideband millimeter-wave SIW cavity backed patch antenna fed by substrate integrated coaxial line. , 2015, , .		15
36	Theory, Design, and Verification of Dual-Circularly Polarized Dual-Beam Arrays With Independent Control of Polarization: A Generalization of Sequential Rotation Arrays. IEEE Transactions on Antennas and Propagation, 2021, 69, 1369-1382.	3.1	15

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37	Recent advances in Q-LINKPAN/IEEE 802.11aj (45GHz) millimeter wave communication technologies. , 2013, , .		14
38	UWB channel measurement and modeling for the intra-vehicle environments. , 2010, , .		11
39	Wideband high-gain low-profile dual-polarized stacked patch antenna array with parasitic elements. Microwave and Optical Technology Letters, 2015, 57, 2012-2016.	0.9	11
40	Amplification of spoof localized surface plasmons on active plasmonic metamaterials. Journal Physics D: Applied Physics, 2018, 51, 295304.	1.3	11
41	A Compact Dual-Band Triple-Mode Antenna With Pattern and Polarization Diversities Enabled by Shielded Mushroom Structures. IEEE Transactions on Antennas and Propagation, 2021, 69, 6229-6243.	3.1	11
42	A compact substrate integrated coaxial line bandpass filter with extended rejection bandwidth. Microwave and Optical Technology Letters, 2014, 56, 415-418.	0.9	8
43	Packaged Ultrabroadband Terminal Antenna for 45 GHz Band IEEE 802.11aj Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 5153-5162.	3.1	8
44	Flat topped radiation pattern synthesis based on FIR filter concept. , 2017, , .		8
45	3D-printed cylindrical Luneburg lens antenna for millimeter-wave applications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e21994.	0.8	8
46	Characterization and Design of Wideband Penta- and Hepta-Resonance SIW Elliptical Cavity-Backed Slot Antennas. IEEE Access, 2020, 8, 111987-111994.	2.6	7
47	Research progress on millimeter wave transmitarray in SKLMMW. , 2012, , .		4
48	A planar active antenna array for hybrid phased array-MIMO system. , 2014, , .		4
49	Wideband high-gain $\pm 45^\circ$ dual-polarised stacked patch antenna array for Ku-band backhaul services. IET Microwaves, Antennas and Propagation, 2020, 14, 53-59.	0.7	4
50	Millimeter-Wave High-Gain Substrate Integrated Multi-Slot Antenna Array with A Low Cross Polarization Level. , 2020, , .		4
51	A Generalized Flat-Topped Beam Synthesis Approach for Uniform Linear Array With Arbitrary Beam Directions. IEEE Open Journal of Antennas and Propagation, 2022, 3, 709-721.	2.5	4
52	UWB antenna with multiple frequency notched bands for onboard communications. , 2009, , .		3
53	Design and implementation of dual-band and triple-band substrate integrated coaxial line filters. Microwave and Optical Technology Letters, 2013, 55, 2734-2738.	0.9	3
54	Design of a dual-polarized patch array for millimeter-wave applications. , 2016, , .		3

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55	3D-Printed Hemispherical Helix GPS Antenna with Stable Phase Center. , 2019, , .		3
56	Research advances in microwave and millimeter wave circuits and systems in the SKLMMW. , 2012, , .		2
57	Ultrawideband channel measurement and modeling for the future intra-vehicle communications. Microwave and Optical Technology Letters, 2012, 54, 322-326.	0.9	2
58	Balanced dual fed SIW slot antenna array for Q-Link PAN high gain application. , 2013, , .		2
59	Implementation of MIMO antenna with wide beamwidths for Q-band short-range wireless communications. , 2018, , .		2
60	Design and Implementation of 28GHz Phased Array Antenna System. , 2019, , .		2
61	Cylindrical Luneburg Lens Antenna Loaded with Printed Loops for Side lobe Level Reduction. , 2019, , .		2
62	Dielectric Constant Measurement and Error Analysis of 3D-Printing Materials For Microwave Applications. , 2019, , .		2
63	A Stratified Radome Design for Millimeter Wave Antennas. , 2020, , .		2
64	Considerations of UWB circular disc antenna miniaturization. , 2010, , .		1
65	Integration design of high efficiency reflectarray and transmitarray for millimeter wave wireless communications. , 2014, , .		1
66	Full wave analysis of millimeter wave quasi-periodical structure for antenna applications by method of moments and its conjugate gradient solution on GPU/CPU platform. , 2015, , .		1
67	Design and implementation of a Q-band millimeter wave planar lens antenna. Microwave and Optical Technology Letters, 2015, 57, 2322-2328.	0.9	0
68	Planar substrate intergrated circular polarized antenna for Q-band wireless communications. , 2017, , .		0
69	A Q-Band Substrate Integrated Dual-Slot Antenna. , 2018, , .		0