

# Fei Xiao

## List of Publications by Year in descending order

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73  
papers

586  
citations

687363  
13  
h-index

677142  
22  
g-index

73  
all docs

73  
docs citations

73  
times ranked

439  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact Dual Band Bandpass Filter Using Novel E-Type Resonators With Controllable Bandwidths. IEEE Microwave and Wireless Components Letters, 2008, 18, 779-781.	3.2	74
2	An UWB Bandpass Filter Based on a Novel Type of Multi-Mode Resonator. IEEE Microwave and Wireless Components Letters, 2012, 22, 506-508.	3.2	49
3	Compact Dual Band Transversal Bandpass Filter With Multiple Transmission Zeros and Controllable Bandwidths. IEEE Microwave and Wireless Components Letters, 2009, 19, 347-349.	3.2	46
4	Miniature Microstrip Bandpass Filter Using Resonator-Embedded Dual-Mode Resonator Based on Source-Load Coupling. IEEE Microwave and Wireless Components Letters, 2010, 20, 139-141.	3.2	39
5	Design of Substrate Integrated Waveguide Transversal Filter With High Selectivity. IEEE Microwave and Wireless Components Letters, 2010, 20, 328-330.	3.2	35
6	Compact ultra-wideband bandpass filter with good selectivity. Electronics Letters, 2016, 52, 210-212.	1.0	31
7	Direct Synthesis of General Chebyshev Bandpass Filters in the Bandpass Domain. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2411-2421.	5.4	16
8	Novel Wideband Microstrip Filtering Power Divider Using Multiple Resistors for Port Isolation. IEEE Access, 2019, 7, 61868-61873.	4.2	16
9	Millimeter-Wave Waveguide-to-Microstrip Inline Transition Using a Wedge-Waveguide Iris. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1087-1096.	4.6	16
10	Miniaturized Dual-Mode Ring Bandpass Filters With Patterned Ground Plane. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1539-1547.	4.6	15
11	Stability and Numerical Dispersion Analysis of a 3D Hybrid Implicit-Explicit FDTD Method. IEEE Transactions on Antennas and Propagation, 2008, 56, 3346-3350.	5.1	14
12	Direct Synthesis Technique for Dual-Passband Filters: Superposition Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 267-271.	3.0	13
13	Fast Design of IIR Digital Filters With a General Chebyshev Characteristic. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 962-966.	3.0	13
14	Integrated Dipole Antenna With Bandwidth Enhancement for Terahertz Waveguide-to-CPWG Transition. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2433-2436.	4.0	12
15	A 200–240 GHz Sub-Harmonic Mixer Based on Half-Subdivision and Half-Global Design Method. IEEE Access, 2020, 8, 33461-33470.	4.2	12
16	Direct synthesis techniques for general Chebyshev filters: lowpass, highpass, and bandstop cases. International Journal of Circuit Theory and Applications, 2016, 44, 584-601.	2.0	10
17	Filtering Power Amplifier With Up to 4 <sup>th</sup> Harmonic Suppression. IEEE Access, 2020, 8, 29021-29026.	4.2	9
18	High-order US-FDTD based on the weighted finite-difference method. Microwave and Optical Technology Letters, 2005, 45, 142-144.	1.4	8

#	ARTICLE	IF	CITATIONS
19	Open Cloaks Via Embedded Optical Transformation. IEEE Microwave and Wireless Components Letters, 2010, 20, 64-66.	3.2	8
20	A compact low-phase noise oscillator with superior harmonic suppression characteristics based on novel nested split-ring resonator (NSRR). International Journal of Microwave and Wireless Technologies, 2016, 8, 1155-1161.	1.9	8
21	Application of direct synthesis techniques to customize filters with complex frequency response. International Journal of Circuit Theory and Applications, 2016, 44, 1514-1532.	2.0	8
22	Phase Noise Analysis and Estimate of Millimeter Wave PLL Frequency Synthesizer. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 271-278.	0.6	7
23	A multi-mode resonator-based UWB bandpass filter with wide stopband. International Journal of Microwave and Wireless Technologies, 2016, 8, 1031-1035.	1.9	7
24	Direct synthesis technique (DST) for complex general Chebyshev filters. International Journal of Circuit Theory and Applications, 2017, 45, 1958-1977.	2.0	7
25	Compact Microstrip Filter With Third-Order Quasi-Elliptic Bandpass Response. IEEE Access, 2018, 6, 63375-63381.	4.2	7
26	Novel Compact Quarter-Wavelength Resonator Filter Using Lumped Coupling Elements. IEEE Microwave and Wireless Components Letters, 2007, 17, 112-114.	3.2	6
27	Inverse general Chebyshev bandpass filters. International Journal of Circuit Theory and Applications, 2017, 45, 3-17.	2.0	5
28	Microstrip bandpass filters without source/load inverters. International Journal of Circuit Theory and Applications, 2018, 46, 415-426.	2.0	5
29	Design and Analysis of the S-band PLL Frequency Synthesizer with Low Phase Noise. , 0, , .		4
30	Compact transversal bandpass filter incorporating microstrip dual-mode open-loop resonator and slot line resonator with source-load coupling. Microwave and Optical Technology Letters, 2009, 51, 2927-2929.	1.4	4
31	Design of a W-band Stepped-frequency Synthesizer with Fast Frequency Switching. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 826-834.	2.2	4
32	Some notes on group delay in bandpass filter synthesis. , 2012, , .		4
33	Quasi-TEM approach of coupled-microstrip lines and its application to the analysis of microstrip filters. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 131-139.	1.2	4
34	Low phase noise L-band oscillators based on novel general Chebyshev bandpass filters. International Journal of Circuit Theory and Applications, 2020, 48, 72-83.	2.0	4
35	TSPM Parameter Extraction Method and Its Applications in the Modeling of Planar Schottky Diode in THz Band. Electronics (Switzerland), 2021, 10, 1540.	3.1	4
36	Wideband Microstrip Filtering Power Divider Designed by Direct Synthesis Technique (DST). IEEE Microwave and Wireless Components Letters, 2022, 32, 507-510.	3.2	4

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37	Broadband Contactless 90° Waveguide Transition With a U-Shaped Choke Groove. IEEE Microwave and Wireless Components Letters, 2022, 32, 1279-1282.	3.2	4
38	3D low-dispersion IFD-FDTD based on 3D isotropic finite difference. Microwave and Optical Technology Letters, 2005, 46, 381-384.	1.4	3
39	A High Performance Sampling Phase-Locked Dielectric Resonator Oscillator. , 2009, , .		3
40	The distributedâ€element to lumpedâ€element equivalence for transmissionâ€line filter synthesis. International Journal of Circuit Theory and Applications, 2018, 46, 2134-2150.	2.0	3
41	Lumpedâ€element filtering power dividers. International Journal of Circuit Theory and Applications, 2019, 47, 133-151.	2.0	3
42	A High Conversion Gain 210-GHz InP DHBT Sub-Harmonic Mixer Using Gain-Enhanced Structure. IEEE Access, 2019, 7, 101453-101458.	4.2	3
43	Low phase noise microwave oscillator with greater than 60 dB secondâ€harmonic suppression. IET Microwaves, Antennas and Propagation, 2021, 15, 675-682.	1.4	3
44	Low Phase Noise Oscillator Incorporating a Quarter-Wavelength Resonators-Based Network With Source/Load Coupling. IEEE Microwave and Wireless Components Letters, 2021, 31, 1299-1302.	3.2	3
45	Using Phase Jumping Method to Enhance the Beamâ€Wave Interaction Efficiency in Terahertz Folded-Waveguide Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2022, 69, 4586-4591.	3.0	3
46	A fast-speed pulse detector based on Si-Schottky diode. , 2008, , .		2
47	Compact dualâ€mode Hâ€shaped filter with source/load coupling for harmonic suppression. Microwave and Optical Technology Letters, 2010, 52, 1431-1434.	1.4	2
48	Ellipsoidal cloak for inhomogeneous medium. , 2010, , .		2
49	A new class of multi-band waveguide filters. , 2012, , .		2
50	Compact UWB bandpass filters with two superposable notched bands. Microwave and Optical Technology Letters, 2015, 57, 2819-2824.	1.4	2
51	Third-Order Bandwidth-Tunable Bandpass Filter with Two Transmission Zeros. , 2018, , .		2
52	Optimal design of thirdâ€order microstrip bandpass filters by direct synthesis technique (DST). International Journal of Circuit Theory and Applications, 2018, 46, 1827-1837.	2.0	2
53	Design Procedure of a Microstrip Filter Facilitated by Lumped-Element Equivalent Circuit Representation. , 2019, , .		2
54	Filtering Doherty power amplifier. IET Microwaves, Antennas and Propagation, 2020, 14, 1074-1078.	1.4	2

#	ARTICLE	IF	CITATIONS
55	Third-Order Filtering Power Divider with Sharp Selectivity. , 2020, , .		2
56	A 220 GHz High-Efficiency Doubler Based on Function-Based Harmonic Impedance Optimization Method. Journal of Infrared, Millimeter, and Terahertz Waves, 2022, 43, 225-243.	2.2	2
57	Three-dimensional unconditionally-stable operator-splitting FDTD methods. , 2007, , .		1
58	Application of the Particle Swarm Optimization in Microwave Engineering. , 2008, , .		1
59	Design of Compact Dual Band Bandpass Filter with Controllable Bandwidths and Good Selectivity. , 2008, , .		1
60	A compact UWB bandpass filter with a notched band using a multistubs loaded resonator. International Journal of RF and Microwave Computer-Aided Engineering, 2017, 27, e21054.	1.2	1
61	Compact third-order microstrip bandpass filter designed by the distributed-to lumped element equivalence. International Journal of Circuit Theory and Applications, 2019, 47, 379-390.	2.0	1
62	Novel Dual Beam Cascaded Schemes for 346 GHz Harmonic-Enhanced TWTs. Electronics (Switzerland), 2021, 10, 195.	3.1	1
63	Quasi-elliptic bandpass filtering power divider with ultra-wide stopband. Electronics Letters, 2020, 56, 449-450.	1.0	1
64	Improved Gain Equalization Technique for $Q$ -Band Folded-Waveguide TWT for Potential Application in High-Data-Rate Communication. IEEE Transactions on Electron Devices, 2022, 69, 2631-2636.	3.0	1
65	Particle Simulation of a 35-GHz Third-Harmonic Low-Voltage Complex Cavity Gyrotron. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 993-1004.	0.6	0
66	Improvement on the numerical dispersion inherent in the ADI-FDTD Method. , 2007, , .		0
67	High-order accurate ADI-FDTD method with high-order spatial accuracy. , 2007, , .		0
68	High-order accurate FDTD method based on the combination of staggered backward differentiation integrator with optimal central finite difference scheme. Microwave and Optical Technology Letters, 2007, 49, 1802-1804.	1.4	0
69	Research on the Parasitic Passband Suppression of Microstrip Stepped Impedance Resonator Filters. , 2008, , .		0
70	Time-domain methods based on Exponential Evolution Operator approximation for the solution of Maxwell's equations. , 2009, , .		0
71	Analysis and Design of a W-band Coherent Pulsed Transmitter Using a New Timing Scheme. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 899.	2.2	0
72	An substrate integrated waveguide filter with source-load coupling. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	A novel UWB bandpass filter based on multi-stub loaded half-wavelength resonator. , 2017, , .		0