

# Feng Xu

## List of Publications by Year in descending order

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108  
papers

2,363  
citations

471061

17  
h-index

223531

46  
g-index

109  
all docs

109  
docs citations

109  
times ranked

1774  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guided-wave and leakage characteristics of substrate integrated waveguide. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 66-73.	2.9	1,330
2	Finite-difference frequency-domain algorithm for modeling guided-wave properties of substrate integrated waveguide. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 2221-2227.	2.9	241
3	Dual-Mode Substrate Integrated Waveguide Filter With Flexible Response. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 824-830.	2.9	125
4	Understanding Leaky-Wave Structures: A Special Form of Guided-Wave Structure. IEEE Microwave Magazine, 2013, 14, 87-96.	0.7	71
5	All Solution-processed Stable White Quantum Dot Light-emitting Diodes with Hybrid ZnO@TiO <sub>2</sub> as Blue Emitters. Scientific Reports, 2014, 4, 4085.	1.6	61
6	Flexible quantum dot light emitting diodes based on ZnO nanoparticles. RSC Advances, 2015, 5, 82192-82198.	1.7	41
7	Substrate Integrated Nonradiative Dielectric Waveguide Structures Directly Fabricated on Printed Circuit Boards and Metallized Dielectric Layers. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3076-3086.	2.9	31
8	Industrialization of lipid nanoparticles: From laboratory-scale to large-scale production line. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 109, 206-213.	2.0	30
9	Wide Stopband Substrate Integrated Waveguide Filter Implemented by Orthogonal Portsâ€™ Offset. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 964-970.	2.9	30
10	Equivalent Resonant Cavity Model of Arbitrary Periodic Guided-Wave Structures and Its Application to Finite-Difference Frequency-Domain Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 697-702.	2.9	27
11	Ultra-Low-Loss Millimeter-Wave LTCC Bandpass Filters Based on Flexible Design of Lumped and Distributed Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1123-1127.	2.2	25
12	Finite-Difference Time-Domain Modeling of Periodic Guided-Wave Structures and Its Application to the Analysis of Substrate Integrated Nonradiative Dielectric Waveguide. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2502-2511.	2.9	21
13	In-Line Ports Dual-Mode Substrate Integrated Waveguide Filter With Flexible Responses. IEEE Microwave and Wireless Components Letters, 2018, 28, 882-884.	2.0	21
14	Novel Substrate-Integrated Waveguide Phase Shifter and its Application to Six-Port Junction. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4167-4174.	2.9	21
15	V <sub>d</sub> ,C-Based Memristor for Applications of Low Power Electronic Synapse. IEEE Electron Device Letters, 2021, 42, 319-322.	2.2	21
16	Balanced hybrid SIWâ€™CPW bandpass filter. Electronics Letters, 2017, 53, 1653-1655.	0.5	20
17	Compact Multilayer Half Mode Substrate Integrated Waveguide 3-dB Coupler. IEEE Microwave and Wireless Components Letters, 2018, 28, 564-566.	2.0	20
18	A Wideband High-Gain Endfire Antenna Based on Spoof Surface Plasmon Polaritons. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2522-2525.	2.4	15

#	ARTICLE	IF	CITATIONS
19	Localized surface plasmon resonance enhanced quantum dot light-emitting diodes via quantum dot-capped gold nanoparticles. RSC Advances, 2014, 4, 57574-57579.	1.7	14
20	Reversible Transition of Volatile and Nonvolatile Switching in Ag-In-Zn S Quantum Dot-Based Memristors with Low Power Consumption for Synaptic Applications. ACS Applied Nano Materials, 2021, 4, 2365-2374.	2.4	14
21	Substrate integrated waveguide resonator with harmonic suppression. Electronics Letters, 2018, 54, 1388-1389.	0.5	12
22	Analytical Design of Millimeter-Wave 100-nm GaN-on-Si MMIC Switches Using FET-Based Resonators and Coupling Matrix Method. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3307-3318.	2.9	11
23	Parameter extraction of interdigital slow-wave coplanar waveguide circuits using finite difference frequency domain algorithm. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 250-259.	0.8	10
24	Compact bandpass filter based on one-third equilateral triangular resonator of substrate integrated waveguide. Electronics Letters, 2015, 51, 1505-1507.	0.5	10
25	Graphene oxide/PEDOT:PSS as injection layer for quantum dot light emitting diode. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2856-2861.	0.8	9
26	Fast and Accurate Transient Analysis of Buried Wires and its Applications. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 188-199.	1.4	7
27	Sc modification induced short-range cation ordering and high microwave dielectric performance in ZnGa2O4 spinel ceramics. Journal of Alloys and Compounds, 2021, 873, 159758.	2.8	7
28	Minimized multi-layer substrate integrated waveguide 3-dB small aperture coupler. Microwave and Optical Technology Letters, 2017, 59, 3201-3205.	0.9	6
29	Enhanced Performance of Multilayer Bandpass Filter Using Slow-Wave Empty Substrate-Integrated Waveguide (SW-ESIW). IEEE Microwave and Wireless Components Letters, 2021, 31, 1279-1282.	2.0	6
30	A Miniaturized Ka-Band Bandpass Filter Using Folded Hybrid Resonators Based on Monolithic Microwave Integrated Circuit Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1778-1782.	2.2	6
31	Reducing Mutual Coupling of Millimeter Wave Array Antennas by Fractal Defected Ground Structure. , 2018, , .		5
32	A compact E-shaped half-mode substrate integrated waveguide semi-circular antenna. , 2018, , .		5
33	Compact cross-coupled filters based on isosceles right triangular and equilateral triangular SIW cavities. IET Microwaves, Antennas and Propagation, 2019, 13, 692-698.	0.7	5
34	Compact empty substrate integrated waveguide with high performance and its application in microwave. IET Microwaves, Antennas and Propagation, 2021, 15, 1432-1440.	0.7	5
35	Finite-difference time-domain method based on telegraph equations and its applications to modelling of large-scale grounding systems. , 2012, , .		4
36	FD-DFD Method Based on Refined Shift-and-Invert Arnoldi Technique for Periodic Leaky-Wave Antennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 3190-3196.	3.1	4

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37	Planer slot antenna based on triangle corrugated substrate integrated waveguide cavity. , 2017, , .		4
38	Frequency scanning Fabry-Pérot cavity antenna with single 2D-varying partial reflecting surface. IET Microwaves, Antennas and Propagation, 2020, 14, 1246-1252.	0.7	4
39	A planar magic-T based on folded substrate integrated waveguide. , 2015, , .		3
40	Investigation of planar wide band quadruple-mode filter based on substrate integrated waveguide. , 2015, , .		3
41	Low-profile circularly polarized Fabry-Perot antenna fed by air-coupling microstrip patch. , 2016, , .		3
42	A novel wideband bandpass filter based on CSRR-loaded substrate integrated folded waveguide. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22181.	0.8	3
43	Fabrication and investigation of quaternary Ag-In-Zn-S quantum dots-based memristors with ultralow power and multiple resistive switching behaviors. Nanotechnology, 2021, 32, 195205.	1.3	3
44	A six-port network based on substrate integrated waveguide coupler with metal strips. IET Microwaves, Antennas and Propagation, 0, , .	0.7	3
45	Inserted Effects of MXene on Switching Mechanisms and Characteristics of SiO <sub>2</sub> -Based Memristor: Experimental and First-Principles Investigations. IEEE Transactions on Electron Devices, 2022, 69, 3688-3693.	1.6	3
46	Optimal control for pitch regulated variable-speed wind turbines with multiple objectives. , 2011, , .		2
47	A simple and efficient finite difference frequency domain method for the analysis and design of leaky-wave antennas. Microwave and Optical Technology Letters, 2012, 54, 2814-2817.	0.9	2
48	Planar circularly polarized antenna backed by triangle integrated waveguide cavity. , 2017, , .		2
49	A Dual Frequency Fabry-Perot Antenna Based on Metamaterial Lens. , 2018, , .		2
50	A Broadband Microstrip-to-Folded Substrate Integrated Waveguide Transition and In-phase Power Divider. , 2019, , .		2
51	A Compact Bandpass Filter with Wide Stopband and Two Finite Transmission Zeros. , 2019, , .		2
52	Mutual coupling reduction in Fabry-Pérot cavity antenna array. Microwave and Optical Technology Letters, 2020, 62, 2629-2635.	0.9	2
53	Novel dual-mode filters implemented by quarter mode folded substrate integrated waveguide. Electronics Letters, 2021, 57, 656.	0.5	2
54	Pseudo-Interdigital Wideband Bandpass Filter based on Substrate Integrated Coaxial Line (SICL). , 2020, , .		2

#	ARTICLE	IF	CITATIONS
55	A high-performance empty substrate integrated waveguide filter with mixed electric and magnetic coupling. Microwave and Optical Technology Letters, 0, , .	0.9	2
56	A low profile metasurface-based circularly polarized antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	2
57	Performance enhancement of coaxial feed microstrip patch antenna using left-handed material and PBG circular holes. , 2014, , .		1
58	An interdigitated coupler with defect ground structure. , 2015, , .		1
59	Wideband circuits designed on one-third equilateral triangular cavity. , 2016, , .		1
60	Investigation of dual-mode SIW filters with different port positions. , 2017, , .		1
61	Bow-tie slot antenna based on circular substrate integrated waveguide cavity. , 2017, , .		1
62	Triangle SIW planar slot antenna with improved gain. , 2018, , .		1
63	Electrically Small Half-Mode Substrate Integrated Waveguide Circular Cavity Antenna with Improved Gain. , 2019, , .		1
64	Design of a two-cavity dual-mode bandpass SIW Filter. , 2019, , .		1
65	Miniaturized Substrate Integrated Waveguide Bandpass Filters Based on Novel Complementary Split Ring Resonators. , 2019, , .		1
66	In-line ports feeding substrate integrated waveguide resonator with higher order modes suppression. Electronics Letters, 2019, 55, 1093-1095.	0.5	1
67	Wideband Bandpass Filters Using Half-Mode Corrugated Substrate Integrated Waveguide. , 2019, , .		1
68	Design of a Three-cavity Dual-mode Bandpass SIW Filter. , 2019, , .		1
69	A Novel Dual-Band Bandpass Filter based on Substrate Integrated Coaxial Line. , 2019, , .		1
70	Ka-band coupled-resonator bandpass filter based on printed ridge gap waveguide for millimetre-wave application. Electronics Letters, 2021, 57, 770-772.	0.5	1
71	The end-fire Vivaldi antenna based on spoof surface plasmon polaritons. Microwave and Optical Technology Letters, 2021, 63, 2870-2875.	0.9	1
72	A band-notched base station antenna using the grounded coplanar waveguide filter. AEU - International Journal of Electronics and Communications, 2021, 138, 153831.	1.7	1

#	ARTICLE	IF	CITATIONS
73	Multi-layer 3dB Directional Coupler Based on Half-mode Corrugated Substrate Integrated Waveguide. , 2021, , .		1
74	Dual-layer Substrate Integrated Waveguide Filter With Higher Mode Suppression. , 2021, , .		1
75	Multi-layer 3-dB Directional Coupler Based on Corrugated Substrate Integrated Waveguide. , 2021, , .		1
76	Dual-Layer Slow-Wave Half-Mode Substrate Integrated Waveguide E-Plane Coupler. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2992-2996.	2.2	1
77	Solving 2D Poisson's equation based on conditional generative adversarial network. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, .	1.2	1
78	Domain decomposition FDTD algorithm for the analysis of electromagnetic fields and microwave structures. , 2014, , .		0
79	Electromagnetic band gap and artificial magnetic conductor and their application to the patch antenna. , 2014, , .		0
80	Bandpass frequency selective structure using stacked strip lines with shorted via holes. , 2015, , .		0
81	Turning substrate integrated nonradiative dielectric waveguide into leaky-wave antenna. , 2015, , .		0
82	Stability improvement of FDTD method for buried horizontal wires. , 2016, , .		0
83	Periodic leaky-wave antenna based on substrate integrated nonradiative dielectric waveguide. , 2016, , .		0
84	A wideband bandpass filter based on interdigital couplers. , 2016, , .		0
85	Transition of CPW to SINRD guide of PCB version. Microwave and Optical Technology Letters, 2017, 59, 898-900.	0.9	0
86	Composite right/left-handed antenna based on triangle substrate integrated waveguide cavity. , 2017, , .		0
87	Low-profile dual-band fabry-perot resonator antenna. , 2017, , .		0
88	A novel magic-t based on hybrid integration technology of planar circuits and NRD-guide. , 2017, , .		0
89	Power divider based on substrate integrated nonradiative dielectric waveguide. , 2017, , .		0
90	An effective preconditioner for the IE-NDDM-MLFMA method for analyzing EM scattering from electrically large PEC objects. , 2017, , .		0

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91	A high-gain lens antenna based on novel left-handed metamaterial. , 2017, , .		0
92	Time-domain finite difference analysis of EMP coupling to double wires. , 2017, , .		0
93	Design of Element for 5G Antenna Arrays with Step Impedance Resonator. , 2018, , .		0
94	Frequency Scanning Leaky-wave Antenna Based on Goubau Line Formed by Loading Parasitic Branches. , 2018, , .		0
95	A Modified Log-Periodic Dipole Array Antenna with Dielectric-Loaded and Top-Loading Techniques. , 2018, , .		0
96	A Dual-Frequency Substrate Integrated Waveguide Cavity Backed Slot Antenna Using Artificial Magnetic Conductor. , 2018, , .		0
97	Gain-Enhanced of Triangular Microstrip Antenna Using Artificial Magnetic Conductor. , 2018, , .		0
98	Design of 1:4 Power Divider Using Artificial Magnetic Conductor Packaging for Millimeter-wave Application. , 2019, , .		0
99	Compact Dual-Band Diplexer Based on Dual-Layer Substrate Integrated Waveguide. , 2019, , .		0
100	Compact Triple-mode HMSIW Filter Using Quarter-Wavelength Co-planar Waveguide. , 2020, , .		0
101	Multi-layer 3dB Power Divider Based on Half-mode Corrugated Substrate Integrated Waveguide. , 2020, , .		0
102	A High Coupling Interdigital Coupler Based on Substrate Integrated Coaxial Line. , 2020, , .		0
103	A Novel Log-Periodic Antenna Based on Spoof Surface Plasmon Polaritons. , 2020, , .		0
104	Miniaturized Equal Power Divider Using Corrugated Substrate Integrated Waveguide. , 2020, , .		0
105	Design of Crossover Based on Printed Gap Waveguide for Millimeter-wave Application. , 2021, , .		0
106	A Novel Wideband Bandpass Corrugated Substrate Integrated Waveguide Filter Combining EBG Structure and DGS. , 2021, , .		0
107	A Miniaturized Branch Coupler Based on Substrate Integrated Coaxial Line Loaded Interdigital Capacitor. , 2021, , .		0
108	Broadband Gain Fabry-Perot Resonator Antenna Employing a Circularly Polarized Metasurface. , 2021, , .		0