Feng Xu

List of Publications by Year
in descending order

108 papers	2,363 citations	471509 17 h-index	223800 46 g-index
109 all docs	109 docs citations	109 times ranked	1774 citing authors

#	Article	IF	Citations
1	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.	3.0	1
2	A low profile metasurfaceâ€based circularly polarized antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	1.2	2
3	Solving 2D Poisson's equation based on conditional generative adversarial network. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, .	1.9	1
4	Inserted Effects of MXene on Switching Mechanisms and Characteristics of SiO₂-Based Memristor: Experimental and First-Principles Investigations. IEEE Transactions on Electron Devices, 2022, 69, 3688-3693.	3.0	3
5	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.	3.0	25
6	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.	3.2	6
7	Fabrication and investigation of quaternary Agâ€“Inâ€“Znâ€“S quantum dots-based memristors with ultralow power and multiple resistive switching behaviors. Nanotechnology, 2021, 32, 195205.	2.6	3
8	Reversible Transition of Volatile and Nonvolatile Switching in Agâ€“Inâ€“Znâ€“S Quantum Dot-Based Memristors with Low Power Consumption for Synaptic Applications. ACS Applied Nano Materials, 2021, 4, 2365-2374.	5.0	14
9	Vâ„C-Based Memristor for Applications of Low Power Electronic Synapse. IEEE Electron Device Letters, 2021, 42, 319-322.	3.9	21
10	Compact empty substrate integrated waveguide with high performance and its application in microwave. IET Microwaves, Antennas and Propagation, 2021, 15, 1432-1440.	1.4	5
11	Novel dualâ€mode filters implemented by quarter mode folded substrate integrated waveguide. Electronics Letters, 2021, 57, 656.	1.0	2
12	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.	3.0	6
13	Kaâ€band coupledâ€resonator bandpass filter based on printed ridge gap waveguide for millimetreâ€wave application. Electronics Letters, 2021, 57, 770-772.	1.0	1
14	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.	4.6	11
15	The endâ€fire Vivaldi antenna based on spoof surface plasmon polaritons. Microwave and Optical Technology Letters, 2021, 63, 2870-2875.	1.4	1
16	A band-notched base station antenna using the grounded coplanar waveguide filter. AEU - International Journal of Electronics and Communications, 2021, 138, 153831.	2.9	1
17	Sc modification induced short-range cation ordering and high microwave dielectric performance in ZnGa2O4 spinel ceramics. Journal of Alloys and Compounds, 2021, 873, 159758.	5.5	7
18	Design of Crossover Based on Printed Gap Waveguide for Millimeter-wave Application. , 2021, , .		0

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19	A Novel Wideband Bandpass Corrugated Substrate Integrated Waveguide Filter Combining EBG Structure and DGS. , 2021, , .		0
20	A Miniaturized Branch Coupler Based on Substrate Integrated Coaxial Line Loaded Interdigital Capacitor. , 2021, , .		0
21	Multi-layer 3dB Directional Coupler Based on Half-mode Corrugated Substrate Integrated Waveguide. , 2021, , .		1
22	Dual-layer Substrate Integrated Waveguide Filter With Higher Mode Suppression. , 2021, , .		1
23	Broadband Gain Fabry-Perot Resonator Antenna Employing a Circularly Polarized Metasurface. , 2021, , .		0
24	Multi-layer 3-dB Directional Coupler Based on Corrugated Substrate Integrated Waveguide. , 2021, , .		1
25	Frequency scanning Fabryâ€“PÃ©rot cavity antenna with single 2Dâ€varying partial reflecting surface. IET Microwaves, Antennas and Propagation, 2020, 14, 1246-1252.	1.4	4
26	A Wideband High-Gain Endfire Antenna Based on Spoof Surface Plasmon Polaritons. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2522-2525.	4.0	15
27	Compact Triple-mode HMSIW Filter Using Quarter-Wavelength Co-planar Waveguide. , 2020, , .		0
28	A novel wideband bandpass filter based on CSRRâ€loaded substrate integrated folded waveguide. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22181.	1.2	3
29	Wide Stopband Substrate Integrated Waveguide Filter Implemented by Orthogonal Portsâ€™ Offset. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 964-970.	4.6	30
30	Mutual coupling reduction in Fabryâ€PÃ©rot cavity antenna array. Microwave and Optical Technology Letters, 2020, 62, 2629-2635.	1.4	2
31	Multi-layer 3dB Power Divider Based on Half-mode Corrugated Substrate Integrated Waveguide. , 2020, , .		0
32	Pseudo-Interdigital Wideband Bandpass Filter based on Substrate Integrated Coaxial Line (SICL). , 2020, , .		2
33	A High Coupling Interdigital Coupler Based on Substrate Integrated Coaxial Line. , 2020, , .		0
34	A Novel Log-Periodic Antenna Based on Spoof Surface Plasmon Polaritons. , 2020, , .		0
35	Miniaturized Equal Power Divider Using Corrugated Substrate Integrated Waveguide. , 2020, , .		0
36	Electrically Small Half-Mode Substrate Integrated Waveguide Circular Cavity Antenna with Improved Gain. , 2019, , .		1

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37	Design of 1:4 Power Divider Using Artificial Magnetic Conductor Packaging for Millimeter-wave Application. , 2019, , .		0
38	Design of a two-cavity dual-mode bandpass SIW Filter. , 2019, , .		1
39	Compact crossâ€coupled filters based on isosceles right triangular and equilateral triangular SIW cavities. IET Microwaves, Antennas and Propagation, 2019, 13, 692-698.	1.4	5
40	Compact Dual-Band Diplexer Based on Dual-Layer Substrate Integrated Waveguide. , 2019, , .		0
41	A Broadband Microstrip-to-Folded Substrate Integrated Waveguide Transition and In-phase Power Divider. , 2019, , .		2
42	Miniaturized Substrate Integrated Waveguide Bandpass Filters Based on Novel Complementary Split Ring Resonators. , 2019, , .		1
43	Novel Substrate-Integrated Waveguide Phase Shifter and its Application to Six-Port Junction. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4167-4174.	4.6	21
44	Inâ€line ports feeding substrate integrated waveguide resonator with higher order modes suppression. Electronics Letters, 2019, 55, 1093-1095.	1.0	1
45	A Compact Bandpass Filter with Wide Stopband and Two Finite Transmission Zeros. , 2019, , .		2
46	Wideband Bandpass Filters Using Half-Mode Corrugated Substrate Integrated Waveguide. , 2019, , .		1
47	Design of a Three-cavity Dual-mode Bandpass SIW Filter. , 2019, , .		1
48	A Novel Dual-Band Bandpass Filter based on Substrate Integrated Coaxial Line. , 2019, , .		1
49	Design of Element for 5G Antenna Arrays with Step Impedance Resonator. , 2018, , .		0
50	A Dual Frequency Fabry-Perot Antenna Based on Metamaterial Lens. , 2018, , .		2
51	Frequency Scanning Leaky-wave Antenna Based on Goubau Line Formed by Loading Parasitic Branches. , 2018, , .		0
52	Reducing Mutual Coupling of Millimeter Wave Array Antennas by Fractal Defected Ground Structure. , 2018, , .		5
53	In-Line Ports Dual-Mode Substrate Integrated Waveguide Filter With Flexible Responses. IEEE Microwave and Wireless Components Letters, 2018, 28, 882-884.	3.2	21
54	A Modified Log-Periodic Dipole Array Antenna with Dielectric-Loaded and Top-Loading Techniques. , 2018, , .		0

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55	A Dual-Frequency Substrate Integrated Waveguide Cavity Backed Slot Antenna Using Artificial Magnetic Conductor. , 2018, , .		0
56	Gain-Enhanced of Triangular Microstrip Antenna Using Artificial Magnetic Conductor. , 2018, , .		0
57	Substrate integrated waveguide resonator with harmonic suppression. Electronics Letters, 2018, 54, 1388-1389.	1.0	12
58	A compact E-shaped half-mode substrate integrated waveguide semi-circular antenna. , 2018, , .		5
59	Triangle SIW planar slot antenna with improved gain. , 2018, , .		1
60	Compact Multilayer Half Mode Substrate Integrated Waveguide 3-dB Coupler. IEEE Microwave and Wireless Components Letters, 2018, 28, 564-566.	3.2	20
61	Transition of CPW to SINRD guide of PCB version. Microwave and Optical Technology Letters, 2017, 59, 898-900.	1.4	0
62	Dual-Mode Substrate Integrated Waveguide Filter With Flexible Response. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 824-830.	4.6	125
63	Minimized multi-layer substrate integrated waveguide 3-dB small aperture coupler. Microwave and Optical Technology Letters, 2017, 59, 3201-3205.	1.4	6
64	Balanced hybrid SIWâ€“CPW bandpass filter. Electronics Letters, 2017, 53, 1653-1655.	1.0	20
65	Planer slot antenna based on triangle corrugated substrate integrated waveguide cavity. , 2017, , .		4
66	Composite right/left-handed antenna based on triangle substrate integrated waveguide cavity. , 2017, , .		0
67	Low-profile dual-band fabry-perot resonator antenna. , 2017, , .		0
68	A novel magic-t based on hybrid integration technology of planar circuits and NRD-guide. , 2017, , .		0
69	Investigation of dual-mode SIW filters with different port positions. , 2017, , .		1
70	Planar circularly polarized antenna backed by triangle integrated waveguide cavity. , 2017, , .		2
71	Power divider based on substrate integrated nonradiative dielectric waveguide. , 2017, , .		0
72	An effective preconditioner for the IE-NDDM-MLFMA method for analyzing EM scattering from electrically large PEC objects. , 2017, , .		0

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73	A high-gain lens antenna based on novel left-handed metamaterial. , 2017, , .		0
74	Time-domain finite difference analysis of EMP coupling to double wires. , 2017, , .		0
75	Bow-tie slot antenna based on circular substrate integrated waveguide cavity. , 2017, , .		1
76	Stability improvement of FDTD method for buried horizontal wires. , 2016, , .		0
77	Low-profile circularly polarized Fabry-Perot antenna fed by air-coupling microstrip patch. , 2016, , .		3
78	Periordic leaky-wave antenna based on substrate integrated nonradiative dielectric waveguide. , 2016, , .		0
79	A wideband bandpass filter based on interdigital couplers. , 2016, , .		0
80	Wideband circuits designed on one-third equilateral triangular cavity. , 2016, , .		1
81	Industrialization of lipid nanoparticles: From laboratory-scale to large-scale production line. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 109, 206-213.	4.3	30
82	Bandpass frequency selective structure using stacked strip lines with shorted via holes. , 2015, , .		0
83	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.	1.8	9
84	A planar magic-T based on folded substrate integrated waveguide. , 2015, , .		3
85	An interdigitated coupler with defect ground structure. , 2015, , .		1
86	Investigation of planar wide band quadruple-mode filter based on substrate integrated waveguide. , 2015, , .		3
87	Turning substrate integrated nonradiative dielectric waveguide into leaky-wave antenna. , 2015, , .		0
88	Compact bandpass filter based on oneâ€‐third equilateral triangular resonator of substrate integrated waveguide. Electronics Letters, 2015, 51, 1505-1507.	1.0	10
89	Flexible quantum dot light emitting diodes based on ZnO nanoparticles. RSC Advances, 2015, 5, 82192-82198.	3.6	41
90	Domain decomposition FDTD algorithm for the analysis of electromagnetic fields and microwave structures. , 2014, , .		0

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91	Performance enhancement of coaxial feed microstrip patch antenna using left-handed material and PBG circular holes. , 2014, , .		1
92	Electromagnetic band gap and artificial magnetic conductor and their application to the patch antenna. , 2014, , .		0
93	Fast and Accurate Transient Analysis of Buried Wires and its Applications. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 188-199.	2.2	7
94	Localized surface plasmon resonance enhanced quantum dot light-emitting diodes via quantum dot-capped gold nanoparticles. RSC Advances, 2014, 4, 57574-57579.	3.6	14
95	All Solution-processed Stable White Quantum Dot Light-emitting Diodes with Hybrid ZnO@TiO2 as Blue Emitters. Scientific Reports, 2014, 4, 4085.	3.3	61
96	Understanding Leaky-Wave Structures: A Special Form of Guided-Wave Structure. IEEE Microwave Magazine, 2013, 14, 87-96.	0.8	71
97	FDFD Method Based on Refined Shift-and-Invert Arnoldi Technique for Periodic Leaky-Wave Antennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 3190-3196.	5.1	4
98	A simple and efficient finite difference frequency domain method for the analysis and design of leakyâ€wave antennas. Microwave and Optical Technology Letters, 2012, 54, 2814-2817.	1.4	2
99	Finite-difference time-domain method based on telegraph equations and its applications to modelling of large-scale grounding systems. , 2012, , .		4
100	Optimal control for pitch regulated variable-speed wind turbines with multiple objectives. , 2011, , .		2
101	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.	4.6	31
102	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.	1.2	10
103	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.	4.6	21
104	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.	4.6	27
105	Guided-wave and leakage characteristics of substrate integrated waveguide. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 66-73.	4.6	1,330
106	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.	4.6	241
107	A sixâ€port network based on substrate integrated waveguide coupler with metal strips. IET Microwaves, Antennas and Propagation, 0, , .	1.4	3
108	A highâ€performance empty substrate integrated waveguide filter with mixed electric and magnetic coupling. Microwave and Optical Technology Letters, 0, , .	1.4	2