

# Changjun Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90  
papers

951  
citations

19  
h-index

26  
g-index

109  
ext. papers

1,222  
ext. citations

2.4  
avg, IF

4.67  
L-index

#	Paper	IF	Citations
90	Compact Patch Rectennas Without Impedance Matching Network for Wireless Power Transmission. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 1-1	4.1	5
89	A Substrate Integrated Waveguide Resonator Sensor for Dual-Band Complex Permittivity Measurement. <i>Processes</i> , <b>2022</b> , 10, 708	2.9	3
88	Low-Noise Dual-Way Magnetron Power-Combining System Using an Asymmetric H-Plane Tee and Closed-Loop Phase Compensation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 69, 2267-2278 <sup>3</sup>	4.1	2278 <sup>3</sup>
87	Wide Input Power Range X-Band Rectifier With Dynamic Capacitive Self-Compensation. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 31, 525-528	2.6	3
86	A 5Bit CMOS attenuator with low temperature and process variations for Ka-band phased-array applications. <i>Microwave and Optical Technology Letters</i> , <b>2021</b> , 63, 2370	1.2	
85	Low-Power Wireless Uplink Utilizing Harmonic With an Integrated Rectifier-Transmitter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 31, 200-203	2.6	1
84	Compact Rectifiers With Ultra-wide Input Power Range Based on Nonlinear Impedance Characteristics of Schottky Diodes. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 7407-7411	7.2	7
83	Design of a Suspended Stripline Dual-Band Band-Stop Filter Loaded With Short-Ended Waveguide Stubs Embedded in the Metal Housing. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 1025-1028 <sup>1</sup>	2.6	1028 <sup>1</sup>
82	A Compact High-Efficiency Broadband Rectifier With a Wide Dynamic Range of Input Power for Energy Harvesting. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 433-436	2.6	24
81	Design of Microwave Directional Heating System Based on Phased-Array Antenna. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 4896-4904	4.1	8
80	Broadband compact 180° phase shifter based on dumbbell shaped slow wave line. <i>Microwave and Optical Technology Letters</i> , <b>2020</b> , 62, 2857-2860	1.2	1
79	A Compact High-Efficiency Rectifier With a Simple Harmonic Suppression Structure. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 1177-1180	2.6	3
78	A Novel Class-C Rectifier With High Efficiency for Wireless Power Transmission. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 1197-1200	2.6	7
77	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 1151-1159	2	3
76	Improvements in a 20-kW Phase-Locked Magnetron by Anode Voltage Ripple Suppression. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 1879-1885	1.3	3
75	Measurement of Near-Field Electromagnetic Emissions and Characterization Based on Equivalent Dipole Model in Time-Domain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 1237-1246 <sup>2</sup>	2	5
74	A High-Efficiency Microwave Power Combining System Based on Frequency-Tuning Injection-Locked Magnetrons. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 4447-4452	2.9	5

73	Codesign of a Schottky Diode's and Loop Antenna's Impedances for Dual-Band Wireless Power Transmission. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2020</b> , 19, 1813-1817	3.8	3
72	Modeling and Experiments of an Injection-Locked Magnetron With Various Load Reflection Levels. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 3802-3808	2.9	2
71	A compact hollowed-out loop rectenna without matching network for wireless sensor applications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2020</b> , 30, e22417	1.5	1
70	Compact High-Efficiency Broadband Rectifier With Multi-Stage-Transmission-Line Matching. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2019</b> , 66, 1316-1320	3.5	24
69	High-Efficiency Rectifier with Wide Input Power Range Based on a Small Capacitor in Parallel with the Diode <b>2019</b> ,		2
68	Microwave-induced thermoacoustic tomography through an adult human skull. <i>Medical Physics</i> , <b>2019</b> , 46, 1793-1797	4.4	11
67	Experimental Studies on a Four-Way Microwave Power Combining System Based on Hybrid Injection-Locked 20-kW S-Band Magnetrons. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 243-250	1.3	10
66	Experimental Studies on a 1-kW High-Gain S-Band Magnetron Amplifier With Output Phase Control Based on Load Pull Characterization. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 909-916	1.3	4
65	Ka-Band Dual-Frequency Single-Slot Antenna Based on Substrate Integrated Waveguide. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 221-224	3.8	8
64	Experimental Study on the Phase Deviation of 20-kW S-Band CW Phase-Locked Magnetrons. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 509-511	2.6	4
63	Phase-Shifterless Power Controlled Combining Based on 20-kW S-Band Magnetrons With an Asymmetric Injection. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1425-1428	4.4	10
62	High-Efficient Rectifier With Extended Input Power Range Based on Self-Tuning Impedance Matching. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 1116-1118	2.6	17
61	One Octave Bandwidth Rectifier With a Frequency Selective Diode Array. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 1008-1010	2.6	23
60	Design of a High-Conversion-Efficiency X-Band Rectifier for Microwave Wireless Power Transmission <b>2018</b> ,		3
59	Large field homogeneous illumination in microwave-induced thermoacoustic tomography based on a quasi-conical spiral antenna. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 123701	3.4	5
58	Suppressing excitation effects in microwave induced thermoacoustic tomography by multi-view Hilbert transformation. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 053701	3.4	17
57	Theoretical and experimental development of a high-conversion-efficiency rectifier at X-band. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2017</b> , 9, 985-994	0.8	3
56	Comparative Effects of Linearly and Circularly Polarized Illumination on Microwave-Induced Thermoacoustic Tomography. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 1593-1596	3.8	12

55	Simulation and Experiments of an S-Band 20-kW Power-Adjustable Phase-Locked Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 791-797	1.3	3
54	Note: Coaxial apparatus to measure the permittivities of chemical solutions at microwave frequencies. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 046102	1.7	3
53	A Novel Single-Diode Microwave Rectifier With a Series Band-Stop Structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 600-606	4.1	43
52	Homogenizing microwave illumination in thermoacoustic tomography by a linear-to-circular polarizer based on frequency selective surfaces. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 063703	3.4	14
51	A C-band microwave rectifier based on harmonic termination and with input filter removed <b>2017</b> ,		2
50	Experimental studies on a low power injection-locked continuous wave magnetron <b>2017</b> ,		1
49	A Microwave Thermostatic Reactor for Processing Liquid Materials Based on a Heat-Exchanger. <i>Materials</i> , <b>2017</b> , 10,	3.5	6
48	Study on microwave coherent power combining based on 20-kW S-band CW power-adjustable magnetrons. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2017</b> , 31, 1835-1842	1.3	0
47	Experimental Study on Microwave Power Combining Based on Injection-Locked 15-kW S-Band Continuous-Wave Magnetrons. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 1291-1297	1.3	25
46	3-D Printing Implementation of an X-band Eaton Lens for Beam Deflection. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2016</b> , 15, 1487-1490	3.8	36
45	Experimental study on an S-band near-field microwave magnetron power transmission system on hundred-watt level. <i>International Journal of Electronics</i> , <b>2015</b> , 102, 1818-1830	1.2	7
44	A high gain and simple-structured dielectric resonator antenna array with cylindrical rods and microstrip feeding. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2015</b> , 47, 433-440	0.4	2
43	A C-band microwave rectenna using aperture-coupled antenna array and novel Class-F rectifier with cavity. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2015</b> , 29, 977-991	1.3	9
42	A C-band microwave rectifier without capacitors for microwave power transmission. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2015</b> , 7, 623-628	0.8	4
41	Compact Two-Section Half-Wave Balun Based on Planar Artificial Transmission Lines. <i>International Journal of Antennas and Propagation</i> , <b>2015</b> , 2015, 1-6	1.2	4
40	Design of a Novel UWB Omnidirectional Antenna Using Particle Swarm Optimization. <i>International Journal of Antennas and Propagation</i> , <b>2015</b> , 2015, 1-7	1.2	5
39	An SIW Resonator Sensor for Liquid Permittivity Measurements at C Band. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2015</b> , 25, 751-753	2.6	60
38	Microwave power combining system based on two injection-locked 15 kW CW magnetrons <b>2015</b> ,		2

37	Novel miniaturized low-pass filters from artificial transmission line structures. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2014</b> , 28, 1269-1274	1.3	4
36	High-gain planar array designed by using fragmented slots. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2014</b> , 24, 382-388	1.5	1
35	Comments on Planar Artificial Transmission Lines Loading for Miniaturization of RFID Printed Quasi-Yagi Antenna <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2014</b> , 13, 1815-1815	3.8	1
34	Frequency selective surface with switchable polarization. <i>Microwave and Optical Technology Letters</i> , <b>2014</b> , 56, 515-518	1.2	4
33	A novel dual-frequency microwave rectifier at 2.45 and 5.8 GHz with harmonic recycling. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2013</b> , 27, 707-715	1.3	1
32	Design and implementation of compact microwave components with artificial transmission lines. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2013</b> , 27, 385-395	1.3	5
31	K-Band Frequency-Scanned Leaky-Wave Antenna Based on Composite Right/Left-Handed Transmission Lines. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2013</b> , 12, 1133-1136	3.8	25
30	STUDY ON AN S-BAND RECTENNA ARRAY FOR WIRELESS MICROWAVE POWER TRANSMISSION. <i>Progress in Electromagnetics Research</i> , <b>2013</b> , 135, 747-758	3.8	24
29	Some Amendments to Field-to-Wire Coupling in an Electrically Large Cavity: A Semianalytic Solution <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2012</b> , 54, 232-234	2	2
28	A Facile and General Method for the Encapsulation of Different Types of Imaging Contrast Agents Within Micrometer-Sized Polymer Beads. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 764-770	15.6	30
27	Compact half-wave balun using microstrip and lumped-element artificial transmission lines <b>2012</b> ,		1
26	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2012</b> , 54, 1153-1160	2	3
25	Multiband metamaterial structure: Butterfly-pattern resonator. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 2179-2181	1.2	7
24	Performance characterization of an integrated ultrasound, photoacoustic, and thermoacoustic imaging system. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 056010	3.5	55
23	AN INTERMODULATION RECYCLING RECTIFIER FOR MICROWAVE POWER TRANSMISSION AT 2.45 GHz. <i>Progress in Electromagnetics Research</i> , <b>2011</b> , 119, 435-447	3.8	10
22	NOVEL HIGH SELECTIVE BANDPASS FILTERS INCORPORATED WITH QUASI-LUMPED IMPEDANCE INVERTERS. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2011</b> , 25, 1382-1390	1.3	4
21	A Miniaturized Dual-band Power Divider with Harmonic Suppression for Gsm Applications. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2010</b> , 24, 81-91	1.3	34
20	Novel Dual Mode Substrate Integrated Waveguide Band-Pass Filters. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2010</b> , 24, 1661-1672	1.3	25

19	A COMPACT DUAL-BAND POWER DIVIDER USING PLANAR ARTIFICIAL TRANSMISSION LINES FOR GSM/DCS APPLICATIONS. <i>Progress in Electromagnetics Research Letters</i> , <b>2009</b> , 10, 185-191	0.5	12
18	On the Relation between Composite Right-/Left-Handed Transmission Lines and Chebyshev Filters. <i>International Journal of Microwave Science and Technology</i> , <b>2009</b> , 2009, 1-8		2
17	An enhanced microwave rectifying circuit using HSMS-282. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 1151-1153	1.2	17
16	A Novel Power Divider Based on Dual-Composite Right/Left Handed Transmission Line. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2009</b> , 23, 1173-1180	1.3	23
15	A microstrip diplexer from metamaterial transmission lines <b>2009</b> ,		1
14	A Novel Low-Pass Filter With an Embedded Band-Stop Structure for Improved Stop-Band Characteristics. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2009</b> , 19, 629-631	2.6	35
13	A Microstrip Resonator With Slotted Ground Plane for Complex Permittivity Measurements of Liquids. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2008</b> , 18, 257-259	2.6	33
12	Broadband Via-Free Microstrip Balun Using Metamaterial Transmission Lines. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2008</b> , 18, 437-439	2.6	30
11	Analysis and control of the thermal runaway of ceramic slab under microwave heating. <i>Science in China Series D: Earth Sciences</i> , <b>2008</b> , 51, 2233-2241		17
10	Miniaturized microstrip cross-coupled bandpass filter using novel stepped impedance resonators with a desirable upper stopband. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 1270-1273	1.2	2
9	A Noninvasive Method for Determining Dielectric Properties of Layered Tissues on Human Back. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2007</b> , 21, 1829-1843	1.3	25
8	On the relation between a negative refractive index transmission line and chebyshev filters <b>2007</b> ,		2
7	Measurement/computation of effective permittivity of dilute solution in saponification reaction. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2003</b> , 51, 2106-2111	4.1	31
6	A hybrid numerical method to compute erythrocyte TMP in low-frequency electric fields. <i>IEEE Transactions on Nanobioscience</i> , <b>2003</b> , 2, 104-9	3.4	5
5	Cell deformation and increase of cytotoxicity of anticancer drugs due to low-intensity transient electromagnetic pulses. <i>IEEE Transactions on Plasma Science</i> , <b>2000</b> , 28, 150-154	1.3	2
4	Preliminary analysis of chemical reaction under the radiation of electromagnetic wave. <i>Science Bulletin</i> , <b>2000</b> , 45, 1821-1824		3
3	Experimental study and mechanism analysis on cell electroporation due to low-intensity transient electromagnetic pulses. <i>Science Bulletin</i> , <b>1999</b> , 44, 2040-2044		2
2	Experimental study and mechanism analysis on bioeffects by nanosecond electromagnetic pulses. <i>Science in China Series C: Life Sciences</i> , <b>1997</b> , 40, 301-4		4

- 1 Investigation on Rectifiers and Rectennas with Various Input Power Levels for the Applications of Space Solar Power Station. *Advances in Astronautics Science and Technology*,1 0.3