Yang Yang

List of Publications by Year
in descending order

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		394421	434195
62	1,098	19	31
papers	citations	h-index	g-index

62	62	62	881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Efficiency Continuous-Flow Microwave Heating System Based on Asymmetric Propagation Waveguide. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1920-1931.	4.6	12
2	Effects of Metal Boundary Stretching and Sample Translational Motion on Microwave Heating. Processes, 2022, 10, 246.	2.8	1
3	A General Inheritance Algorithm for Calculating of Arbitrary Moving Samples During Microwave Heating. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1964-1974.	4.6	3
4	Novel electromagnetic-black-hole-based high-efficiency single-mode microwave liquid-phase food heating system. Innovative Food Science and Emerging Technologies, 2022, 78, 103012.	5.6	11
5	Dualâ€linearâ€polarization substrate integrated waveguide patch antenna array. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	1.2	1
6	Determining Electron Density of Atmospheric Microwave Air Plasma Torch by Microwave Power Measurement. IEEE Transactions on Plasma Science, 2022, 50, 1781-1789.	1.3	4
7	Electromagnetic Black Hole for Efficiency Microwave Heating Based on Gradient-Index Metamaterials in Multimode Cavities. IEEE Microwave and Wireless Components Letters, 2022, 32, 1235-1238.	3.2	1
8	3D Printed Millimetre-Wave and Sub-Terahertz Devices: Prospects, Challenges, and Solutions. , 2022, , .		0
9	A simulation method of coupled model for a microwave heating process with multiple moving elements. Chemical Engineering Science, 2021, 231, 116339.	3.8	15
10	Space Matching for Highly Efficient Microwave Wireless Power Transmission Systems: Theory, Prototype, and Experiments. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1985-1998.	4.6	10
11	Uniform and highly efficient microwave heating based on dualâ€port phaseâ€differenceâ€shifting method. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22784.	1.2	11
12	28Â GHz dualâ€layer substrate integrated waveguide slot array antenna combined with quadâ€polarization. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22826.	1.2	1
13	Study of the Influence of Power Supply Ripple on Magnetronâ€™s Output Spectrum. IEEE Transactions on Electron Devices, 2021, 68, 4698-4704.	3.0	7
14	Research on Dry Microwave Heating Infectious Aerosols or Droplets on Respirators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4246-4255.	4.6	2
15	Multiphysics modeling of microwave heating of solid samples in rotary lifting motion in a rectangular multi-mode cavity. Innovative Food Science and Emerging Technologies, 2021, 73, 102767.	5.6	28
16	Study of the high heating efficiency and uniformity by multi-port sweep frequency microwave irradiations. Journal of Microwave Power and Electromagnetic Energy, 2021, 55, 316-332.	0.8	2
17	Dynamic Measurement of Relative Complex Permittivity of Microwave Plasma at Atmospheric Pressure. Processes, 2021, 9, 1812.	2.8	2
18	A dynamic impedance matching algorithm of three-stub tuners based on equivalent circuit analysis. Journal of Microwave Power and Electromagnetic Energy, 2020, 54, 330-347.	0.8	9

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19	Highly Efficient Microwave Power System of Magnetrons Utilizing Frequency-Searching Injection-Locking Technique With No Phase Shifter. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4424-4432.	4.6	8
20	High Isolation Substrate Integrated Waveguide Diplexer With Flexible Transmission Zeros. IEEE Microwave and Wireless Components Letters, 2020, 30, 1029-1032.	3.2	19
21	Design and Experiment of a Reconfigurable Magnetic Resonance Coupling Wireless Power Transmission System. IEEE Microwave and Wireless Components Letters, 2020, 30, 705-708.	3.2	14
22	Low-Cost, High-Power Jamming Transmitter Based on Magnetron. IEEE Transactions on Electron Devices, 2020, 67, 2912-2918.	3.0	5
23	Microwave heating based on two rotary waveguides to improve efficiency and uniformity by gradient descent method. Applied Thermal Engineering, 2020, 178, 115594.	6.0	47
24	Design of Microwave Directional Heating System Based on Phased-Array Antenna. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4896-4904.	4.6	28
25	A reconfigurable Bessel antenna for nearâ€field beam deflection. Microwave and Optical Technology Letters, 2020, 62, 2104-2110.	1.4	1
26	Accordion microwave oven for uniformity and efficiency heating. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22190.	1.2	14
27	The impact of pins on dual-port microwave heating uniformity and efficiency with dual frequency. Journal of Microwave Power and Electromagnetic Energy, 2020, 54, 83-98.	0.8	18
28	Nonreciprocal Isolating Bandpass Filter With Enhanced Isolation Using Metallized Ferrite. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5307-5316.	4.6	8
29	Metallic and dielectric hybrid 3D printed Kâ€band dielectricâ€loaded antenna with reduced sidelobe. IET Microwaves, Antennas and Propagation, 2020, 14, 1969-1974.	1.4	0
30	An approach for simulating the microwave heating process with a slow- rotating sample and a fast-rotating mode stirrer. International Journal of Heat and Mass Transfer, 2019, 140, 440-452.	4.8	49
31	Theoretical and experimental study on frequency pushing effect of magnetron*. Chinese Physics B, 2019, 28, 118402.	1.4	1
32	A Ka-Band Circularly Polarized Substrate Integrated Cavity-Backed Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1882-1886.	4.0	20
33	A Metallic 3-D Printed Airborne High-Power Handling Magneto-Electric Dipole Array With Cooling Channels. IEEE Transactions on Antennas and Propagation, 2019, 67, 7368-7378.	5.1	20
34	A Two-Dimensional Multibeam Lens Antenna for Hydrologic Radar Application. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2488-2492.	4.0	12
35	Sweep Frequency Heating based on Injection Locked Magnetron. Processes, 2019, 7, 341.	2.8	12
36	Effective method to design largeâ€size horn arrays with high gain and suppressed sidelobes using metaâ€screens. IET Microwaves, Antennas and Propagation, 2019, 13, 460-465.	1.4	0

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37	Frequency-Reconfigurable Rectenna With an Adaptive Matching Stub for Microwave Power Transmission. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 956-960.	4.0	18
38	Design and Implementation of SIW Cavity-Backed Dual-Polarization Antenna Array With Dual High-Order Modes. IEEE Transactions on Antennas and Propagation, 2019, 67, 4889-4894.	5.1	29
39	Dynamic analysis of a continuous-flow microwave-assisted screw propeller system for biodiesel production. Chemical Engineering Science, 2019, 202, 146-156.	3.8	30
40	Unique 3D flower-on-sheet nanostructure of NiCo LDHs: Controllable microwave-assisted synthesis and its application for advanced supercapacitors. Journal of Alloys and Compounds, 2019, 788, 1029-1036.	5.5	83
41	A K-Band 3-D Printed Focal-Shifted Two-Dimensional Beam-Scanning Lens Antenna With Nonuniform Feed. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2721-2725.	4.0	20
42	Microwave Transmitting System Based on Four-Way Masterâ€“Slave Injection-Locked Magnetrons and Horn Arrays With Suppressed Sidelobes. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2416-2424.	4.6	16
43	Microwave Power Absorption Mechanism of Metallic Powders. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2107-2115.	4.6	28
44	A Circularly Polarized Rectenna Array Based on Substrate Integrated Waveguide Structure With Harmonic Suppression. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 684-688.	4.0	30
45	Simulation and Analysis of Oleic Acid Pretreatment for Microwave-Assisted Biodiesel Production. Processes, 2018, 6, 142.	2.8	10
46	60 GHz Substrate-Integrated-Waveguide-Fed Patch Antenna Array With Quadri-Polarization. IEEE Transactions on Antennas and Propagation, 2018, 66, 7406-7411.	5.1	23
47	A Low-Profile Lightweight Circularly Polarized Rectenna Array Based on Coplanar Waveguide. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1659-1663.	4.0	29
48	A 5.8 GHz Circularly Polarized Rectenna With Harmonic Suppression and Rectenna Array for Wireless Power Transfer. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1276-1280.	4.0	56
49	A rotary radiation structure for microwave heating uniformity improvement. Applied Thermal Engineering, 2018, 141, 648-658.	6.0	65
50	Dynamic analysis of continuous-flow microwave reactor with a screw propeller. Applied Thermal Engineering, 2017, 123, 1456-1461.	6.0	24
51	Microwave Power System Based on a Combination of Two Magnetrons. IEEE Transactions on Electron Devices, 2017, 64, 4272-4278.	3.0	22
52	Model Stirrer Based on a Multi-Material Turntable for Microwave Processing Materials. Materials, 2017, 10, 95.	2.9	44
53	A Microwave Thermostatic Reactor for Processing Liquid Materials Based on a Heat-Exchanger. Materials, 2017, 10, 1160.	2.9	10
54	Characterizing Adsorption Performance of Granular Activated Carbon with Permittivity. Materials, 2017, 10, 269.	2.9	1

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55	A Phase-Shifting Method for Improving the Heating Uniformity of Microwave Processing Materials. Materials, 2016, 9, 309.	2.9	29
56	Dynamic analysis and simulation on continuous flow processing of biodiesel production in single-mode microwave cavity. International Journal of Applied Electromagnetics and Mechanics, 2016, 51, 199-213.	0.6	10
57	Frequency qusai locking and noise reduction of the self-injection qusai locked magnetron. International Journal of Applied Electromagnetics and Mechanics, 2016, 51, 71-81.	0.6	8
58	Measuring the microwave permittivity of single particles. , 2013, , .		6
59	A Tris-Dendrimer for Hosting Diverse Chemical Species. Journal of Physical Chemistry C, 2011, 115, 12789-12796.	3.1	14
60	Distinguishing the viability of a single yeast cell with an ultra-sensitive radio frequency sensor. Lab on A Chip, 2010, 10, 553.	6.0	94
61	Characteristic impedance of a novel TEM cell used for microwave chemistry experiment. Microwave and Optical Technology Letters, 2008, 50, 525-529.	1.4	1
62	A Permittivity Measurement Method Based on Cavity Perturbation Technique. Applied Mechanics and Materials, 0, 590, 629-633.	0.2	2