Xiao-Qing Yang

List of Publications by Year
in descending order

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44	494	623734	752698
papers	citations	14 h-index	20 g-index

45	45	45	582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection of Metal Surface Cracks Based on Liquid Switch Controlled Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2022, 22, 1287-1294.	4.7	4
2	Shape Optimization of Microwave Cavity Using Arbitrary Lagrangianâ€“Euler Method to Improve the Heating Uniformity. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1932-1942.	4.6	4
3	Detection and Location of Defects in Non-Metallic Composites Pipeline Based on Multi-Resonant Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2022, 22, 2091-2098.	4.7	2
4	A Microwave Time Domain Reflectometry Technique Combining the Wavelet Decomposition Analysis and Artificial Neural Network for Detection of Defects in Dielectric Structures. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	6
5	A Flexible Sensor Tag for Surface Crack Detection of Curved Film-Coated Metals. IEEE Sensors Journal, 2022, 22, 5662-5668.	4.7	6
6	Multiphysics Simulation of Synchronous Induction Coilgun Based on Implicit Function and Level Set Method. IEEE Transactions on Plasma Science, 2022, 50, 1002-1010.	1.3	1
7	Microwave vortex-beam generator based on corrugated metalâ€“insulatorâ€“metal ground supported spoof surface plasmon polaritons. Journal of Applied Physics, 2022, 131, 103105.	2.5	3
8	Phaseâ€shifted metasurface design for pseudoâ€nondiffractive beam deflection. IET Microwaves, Antennas and Propagation, 2022, 16, 240-247.	1.4	4
9	Detection of Defects in Non-Metallic Composite Material Based on Electronically Controlled Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2021, 21, 2883-2890.	4.7	7
10	Thickness Measurement of Magnetic Absorbing Coating on Metallic Surface by Localized Spoof Surface Plasmon-Based Sensor. IEEE Sensors Journal, 2021, 21, 27433-27440.	4.7	5
11	Near-Field Bessel-Gauss Antenna for Nonmetal Internal Defects Detection. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2466-2470.	4.0	3
12	Method of Defects Detection in Non-Metallic Composites Based on Liquid Flow Controlled Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2021, 21, 13239-13246.	4.7	8
13	A Method for Detecting Metal Surface Cracks Based on Coaxial Resonator. IEEE Sensors Journal, 2021, 21, 16644-16650.	4.7	6
14	Double pendulum mode stirrer for improved multimode microwave heating performance. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22866.	1.2	5
15	Detection of Impurities in Nonmetallic Materials Based on Tilted Spoof Surface Plasmon Polaritons. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	4
16	Design of a Tunable Polarization-Insensitive Absorber for L and S Bands Using Active Frequency-Selective Surface. Journal of Electronic Materials, 2020, 49, 1173-1183.	2.2	5
17	A broadband reconfigurable bandpass filter based on half-mode substrate integrated waveguide and spoof surface plasmon polarization structure. Optical and Quantum Electronics, 2020, 52, 1.	3.3	1
18	A Polarization Conversion Coding Metasurface for Broadband Radar Cross-Section Reduction. Journal of Electronic Materials, 2020, 49, 5561-5569.	2.2	6

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19	A novel algorithm approach for rapid simulated microwave heating of food moving on a conveyor belt. Journal of Food Engineering, 2020, 282, 110029.	5.2	18
20	High-efficiency electrically direction-controllable spoof surface plasmon polaritons coupler. Journal of Applied Physics, 2020, 127, .	2.5	6
21	Detection of Defects in Film-Coated Metals and Non-Metallic Materials Based on Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2019, 19, 11891-11899.	4.7	21
22	Detection of surface defects in film-coated metals and measurement of coating thickness. Review of Scientific Instruments, 2019, 90, 095005.	1.3	1
23	Arbitrary Lagrangian-Eulerian method for computation of rotating target during microwave heating. International Journal of Heat and Mass Transfer, 2019, 134, 271-285.	4.8	40
24	A numerical coupling method for particle tracking in electromagnetic fields. European Physical Journal E, 2019, 42, 48.	1.6	1
25	A split-ring resonator probe for assessing subsurface wood defects. Review of Scientific Instruments, 2019, 90, 125004.	1.3	2
26	Microwave drying process of corns based on double-porous model. Drying Technology, 2019, 37, 92-104.	3.1	25
27	Array Waveguide Probe Loaded With Split-Ring Resonators for Sizing the Cracks in Metal Surface. IEEE Microwave and Wireless Components Letters, 2018, 28, 171-173.	3.2	16
28	An Interdigital Electrode Probe for Detection, Localization and Evaluation of Surface Notch-Type Damage in Metals. Sensors, 2018, 18, 371.	3.8	7
29	Polydopamine-Assisted Hydroxyapatite and Lactoferrin Multilayer on Titanium for Regulating Bone Balance and Enhancing Antibacterial Property. ACS Biomaterials Science and Engineering, 2018, 4, 3211-3223.	5.2	23
30	Highâ€sensitivity structure for the measurement of complex permittivity based on SIW. IET Science, Measurement and Technology, 2017, 11, 532-537.	1.6	14
31	Reconfigurable all-dielectric metasurface based on tunable chemical systems in aqueous solution. Scientific Reports, 2017, 7, 3190.	3.3	24
32	Microwaveâ€Assisted Continuousâ€Flow Reactor Based on a Ridged Waveguide. Chemical Engineering and Technology, 2015, 38, 1334-1339.	1.5	7
33	Analysis and realization of improving the patch antenna gain based on metamaterials. International Journal of Applied Electromagnetics and Mechanics, 2014, 44, 17-25.	0.6	9
34	Microwave assisted synthesis of cyclic carbonates from olefins with sodium bicarbonates as the C1 source. Chemical Communications, 2014, 50, 3245.	4.1	36
35	Molecular dynamics simulations and experimental measurements of complex permittivity of aqueous solutions of NaCl at remote sensing frequencies. Russian Journal of Physical Chemistry A, 2013, 87, 1677-1683.	0.6	1
36	The Effective Permittivity of Reacting Mixture Solutions for Multiphysics Calculations. Journal of Solution Chemistry, 2012, 41, 1729-1737.	1.2	12

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37	Influence of materials dielectric properties on the petroleum oil removal from waste under microwave irradiation. Canadian Journal of Chemical Engineering, 2012, 90, 1465-1471.	1.7	2
38	AN ARTIFICIAL NERVE NETWORK REALIZATION IN THE MEASUREMENT OF MATERIAL PERMITTIVITY. Progress in Electromagnetics Research, 2011, 116, 347-361.	4.4	32
39	Experimental and Theoretic Study of the Dielectric Properties of Ethanolâ€‰+â€‰Methanol Mixtures. Journal of Solution Chemistry, 2010, 39, 473-481.	1.2	13
40	Experimental and the Theoretical Studies ofÂtheÂDielectric Properties of DMSOâ€“H2O Mixtures. Journal of Solution Chemistry, 2010, 39, 849-856.	1.2	15
41	Experimental evidence of a microwave non-thermal effect in electrolyte aqueous solutions. New Journal of Chemistry, 2009, 33, 1486.	2.8	40
42	Study on the key problems of interaction between microwave and chemical reaction. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2007, 2, 473-480.	0.6	8
43	The empirical formula for calculating the complex effective permittivity of an aqueous electrolyte solution at microwave frequency. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 315-320.	6.3	15
44	New Method To Measure and Calculate the Rate Constant of an Acetone Iodation Reaction. Industrial & Engineering Chemistry Research, 2005, 44, 4501-4503.	3.7	5