

Xiao-Qing Yang

List of Publications by Year in descending order

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44
papers

494
citations

623734

14
h-index

752698

20
g-index

45
all docs

45
docs citations

45
times ranked

582
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evidence of a microwave non-thermal effect in electrolyte aqueous solutions. <i>New Journal of Chemistry</i> , 2009, 33, 1486.	2.8	40
2	Arbitrary Lagrangian-Eulerian method for computation of rotating target during microwave heating. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 271-285.	4.8	40
3	Microwave assisted synthesis of cyclic carbonates from olefins with sodium bicarbonates as the C1 source. <i>Chemical Communications</i> , 2014, 50, 3245.	4.1	36
4	AN ARTIFICIAL NERVE NETWORK REALIZATION IN THE MEASUREMENT OF MATERIAL PERMITTIVITY. <i>Progress in Electromagnetics Research</i> , 2011, 116, 347-361.	4.4	32
5	Microwave drying process of corns based on double-porous model. <i>Drying Technology</i> , 2019, 37, 92-104.	3.1	25
6	Reconfigurable all-dielectric metasurface based on tunable chemical systems in aqueous solution. <i>Scientific Reports</i> , 2017, 7, 3190.	3.3	24
7	Polydopamine-Assisted Hydroxyapatite and Lactoferrin Multilayer on Titanium for Regulating Bone Balance and Enhancing Antibacterial Property. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3211-3223.	5.2	23
8	Detection of Defects in Film-Coated Metals and Non-Metallic Materials Based on Spoof Surface Plasmon Polaritons. <i>IEEE Sensors Journal</i> , 2019, 19, 11891-11899.	4.7	21
9	A novel algorithm approach for rapid simulated microwave heating of food moving on a conveyor belt. <i>Journal of Food Engineering</i> , 2020, 282, 110029.	5.2	18
10	Array Waveguide Probe Loaded With Split-Ring Resonators for Sizing the Cracks in Metal Surface. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 171-173.	3.2	16
11	The empirical formula for calculating the complex effective permittivity of an aqueous electrolyte solution at microwave frequency. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 315-320.	6.3	15
12	Experimental and the Theoretical Studies of the Dielectric Properties of DMSO-H ₂ O Mixtures. <i>Journal of Solution Chemistry</i> , 2010, 39, 849-856.	1.2	15
13	High-sensitivity structure for the measurement of complex permittivity based on SIW. <i>IET Science, Measurement and Technology</i> , 2017, 11, 532-537.	1.6	14
14	Experimental and Theoretic Study of the Dielectric Properties of Ethanol-Methanol Mixtures. <i>Journal of Solution Chemistry</i> , 2010, 39, 473-481.	1.2	13
15	The Effective Permittivity of Reacting Mixture Solutions for Multiphysics Calculations. <i>Journal of Solution Chemistry</i> , 2012, 41, 1729-1737.	1.2	12
16	Analysis and realization of improving the patch antenna gain based on metamaterials. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 44, 17-25.	0.6	9
17	Study on the key problems of interaction between microwave and chemical reaction. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , 2007, 2, 473-480.	0.6	8
18	Method of Defects Detection in Non-Metallic Composites Based on Liquid Flow Controlled Spoof Surface Plasmon Polaritons. <i>IEEE Sensors Journal</i> , 2021, 21, 13239-13246.	4.7	8

#	ARTICLE	IF	CITATIONS
19	Microwave-Assisted Continuous-Flow Reactor Based on a Ridged Waveguide. <i>Chemical Engineering and Technology</i> , 2015, 38, 1334-1339.	1.5	7
20	An Interdigital Electrode Probe for Detection, Localization and Evaluation of Surface Notch-Type Damage in Metals. <i>Sensors</i> , 2018, 18, 371.	3.8	7
21	Detection of Defects in Non-Metallic Composite Material Based on Electronically Controlled Spoof Surface Plasmon Polaritons. <i>IEEE Sensors Journal</i> , 2021, 21, 2883-2890.	4.7	7
22	A Polarization Conversion Coding Metasurface for Broadband Radar Cross-Section Reduction. <i>Journal of Electronic Materials</i> , 2020, 49, 5561-5569.	2.2	6
23	High-efficiency electrically direction-controllable spoof surface plasmon polaritons coupler. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	6
24	A Method for Detecting Metal Surface Cracks Based on Coaxial Resonator. <i>IEEE Sensors Journal</i> , 2021, 21, 16644-16650.	4.7	6
25	A Microwave Time Domain Reflectometry Technique Combining the Wavelet Decomposition Analysis and Artificial Neural Network for Detection of Defects in Dielectric Structures. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.	4.7	6
26	A Flexible Sensor Tag for Surface Crack Detection of Curved Film-Coated Metals. <i>IEEE Sensors Journal</i> , 2022, 22, 5662-5668.	4.7	6
27	New Method To Measure and Calculate the Rate Constant of an Acetone Iodation Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 4501-4503.	3.7	5
28	Design of a Tunable Polarization-Insensitive Absorber for L and S Bands Using Active Frequency-Selective Surface. <i>Journal of Electronic Materials</i> , 2020, 49, 1173-1183.	2.2	5
29	Thickness Measurement of Magnetic Absorbing Coating on Metallic Surface by Localized Spoof Surface Plasmon-Based Sensor. <i>IEEE Sensors Journal</i> , 2021, 21, 27433-27440.	4.7	5
30	Double pendulum mode stirrer for improved multimode microwave heating performance. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021, 31, e22866.	1.2	5
31	Detection of Impurities in Nonmetallic Materials Based on Tilted Spoof Surface Plasmon Polaritons. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	4
32	Detection of Metal Surface Cracks Based on Liquid Switch Controlled Spoof Surface Plasmon Polaritons. <i>IEEE Sensors Journal</i> , 2022, 22, 1287-1294.	4.7	4
33	Shape Optimization of Microwave Cavity Using Arbitrary Lagrangian-Euler Method to Improve the Heating Uniformity. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 1932-1942.	4.6	4
34	Phase-shifted metasurface design for pseudo-nondiffractive beam deflection. <i>IET Microwaves, Antennas and Propagation</i> , 2022, 16, 240-247.	1.4	4
35	Near-Field Bessel-Gauss Antenna for Nonmetal Internal Defects Detection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 2466-2470.	4.0	3
36	Microwave vortex-beam generator based on corrugated metal-insulator-metal ground supported spoof surface plasmon polaritons. <i>Journal of Applied Physics</i> , 2022, 131, 103105.	2.5	3

#	ARTICLE	IF	CITATIONS
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	A split-ring resonator probe for assessing subsurface wood defects. Review of Scientific Instruments, 2019, 90, 125004.	1.3	2
39	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
40	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
41	Detection of surface defects in film-coated metals and measurement of coating thickness. Review of Scientific Instruments, 2019, 90, 095005.	1.3	1
42	A numerical coupling method for particle tracking in electromagnetic fields. European Physical Journal E, 2019, 42, 48.	1.6	1
43	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
44	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