

# Xiaoming Liu

## List of Publications by Year in descending order

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93  
papers

468  
citations

840776

11  
h-index

794594

19  
g-index

93  
all docs

93  
docs citations

93  
times ranked

629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low frequency heating of gold nanoparticle dispersions for non-invasive thermal therapies. <i>Nanoscale</i> , 2012, 4, 3945.	5.6	52
2	Radiofrequency heating of nanomaterials for cancer treatment: Progress, controversies, and future development. <i>Applied Physics Reviews</i> , 2015, 2, 011103.	11.3	41
3	A Compact Phase-Controlled Pattern-Reconfigurable Dielectric Resonator Antenna for Passive Wide-Angle Beam Scanning. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 2981-2986.	5.1	40
4	Laser heating of metallic nanoparticles for photothermal ablation applications. <i>AIP Advances</i> , 2017, 7, .	1.3	28
5	Temperature dependent optical and dielectric properties of liquid water studied by terahertz time-domain spectroscopy. <i>AIP Advances</i> , 2019, 9, .	1.3	28
6	Terahertz non-destructive imaging of cracks and cracking in structures of cement-based materials. <i>AIP Advances</i> , 2017, 7, .	1.3	21
7	Permittivity of Undoped Silicon in the Millimeter Wave Range. <i>Electronics (Switzerland)</i> , 2019, 8, 886.	3.1	19
8	Conductivity and frequency dependent specific absorption rate. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	18
9	A Sensor for Characterisation of Liquid Materials with High Permittivity and High Dielectric Loss. <i>Sensors</i> , 2022, 22, 1764.	3.8	17
10	Dual-Band Dual-Rotational-Direction Angular Stable Linear-to-Circular Polarization Converter. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 6054-6059.	5.1	15
11	Millimeter-wave free-space dielectric characterization. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 179, 109472.	5.0	13
12	Polarization-Insensitive Broadband THz Absorber Based on Circular Graphene Patches. <i>Nanomaterials</i> , 2021, 11, 2709.	4.1	12
13	Electromagnetic heating effect of aggregated gold nanoparticle colloids. <i>Journal of Applied Physics</i> , 2014, 115, 094903.	2.5	11
14	A Dual-Frequency Quasi-Optical Output System for a THz Gyro-Multiplier. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 674-681.	3.1	10
15	Characterization of the dielectric properties of water and methanol in the D-band using a quasi-optical spectroscopy. <i>Scientific Reports</i> , 2019, 9, 18562.	3.3	9
16	Dielectric Property Measurement of Gold Nanoparticle Dispersions in the Millimeter Wave Range. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013, 34, 140-151.	2.2	8
17	Investigation of Frequency-Selective Surfaces for a THz Gyromultiplier Output System. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 4678-4685.	3.0	8
18	Novel Corrugated Matched Feed for Cross-Polar Cancellation in Tri-Reflector Compact Range. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 1003-1006.	4.0	7

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19	Polarization rotator of arbitrary angle based on simple slot-array. AIP Advances, 2015, 5, .	1.3	7
20	Study of optically controlled active frequency selective surfaces with organic semiconductor. , 2010, , .		6
21	Design of tri-reflecter Compact Antenna Test Range for millimetre/sub-millimetre wave and THz antenna measurement. , 2011, , .		6
22	A Modular Gaussian Beam Analysis Method Based on 3-D Diffraction Technique. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 362-365.	4.0	6
23	Numerical synthesis of tri-reflecter CATR with high cross-polarisation isolation. Electronics Letters, 2016, 52, 1286-1288.	1.0	6
24	The design and manufacture of a high frequency CATR. , 2013, , .		5
25	A Broadband Ultra-Thin Polarization Rotator Using Periodically Loaded Parallel Strip-Lines. IEEE Access, 2021, 9, 25450-25457.	4.2	5
26	Study of Microwave-Induced Ag Nanowire Welding for Soft Electrode Conductivity Enhancement. Micromachines, 2021, 12, 618.	2.9	5
27	Gaussian beam modes analysis for off-axis mirror with feed position displacement. , 2019, , .		4
28	Broadband Quasi-Optical Dielectric Spectroscopy for Solid and Liquid Samples. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 810-824.	2.2	4
29	Design of a long-range rectangular coil antenna for RFID access control system. , 2013, , .		3
30	Frequency selective surfaces design for a dual-channel quasi-optical system. Microwave and Optical Technology Letters, 2014, 56, 2365-2369.	1.4	3
31	Research on terahertz reflectarray based on graphene surface and PET substrate. , 2017, , .		3
32	RCS reduction study of THz microstrip antenna based on ITO absorbing structure. , 2017, , .		3
33	Design of a Coaxial Feed Horn for High Efficiency Compact Antenna Test Range. , 2018, , .		3
34	Dispersed Silver Nanowires Enhance Radiofrequency Heating. IEEE Nanotechnology Magazine, 2019, 18, 279-286.	2.0	3
35	Broadband Reflective Polarization Rotator Built on Single Substrate. Electronics (Switzerland), 2021, 10, 916.	3.1	3
36	Terahertz Antennas and Measurement. , 2015, , 1-34.		3

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37	Quiet zone evaluation from nonredundant rectilinear data for tri-reflector compact antenna test range. , 2013, , .		2
38	Design of a tanh profiled compact Gaussian corrugated horn for Cassegrain antenna application. , 2015, , .		2
39	Doubleâ€square and griddedâ€square loop frequencyâ€selective surface in the Kâ€band. Microwave and Optical Technology Letters, 2018, 60, 1136-1142.	1.4	2
40	A high-gain and broadband dielectric resonator antenna array with substrate-integrated-waveguide feed network for 67GHz. , 2018, , .		2
41	A fast analysis algorithm for 2D multi-reflector quasi-optical system based on Gaussian beam mode analysis. , 2019, , .		2
42	Theoretical and experimental verification of a fast twoâ€dimensional Gaussian beam mode analysis method. IET Microwaves, Antennas and Propagation, 2020, 14, 1162-1170.	1.4	2
43	A Compact Multiband Quasi-Optical System for Plasma Detection. IEEE Transactions on Antennas and Propagation, 2020, 68, 4916-4924.	5.1	2
44	A twoâ€dimensional quasiâ€optical system design method with low crossâ€polarization based on Gaussian beam mode analysis. Microwave and Optical Technology Letters, 2020, 62, 2728-2736.	1.4	2
45	A Gaussian Beam Mode Analysis Method for 3-D Multi-Reflector Quasi-Optical Systems. Electronics (Switzerland), 2021, 10, 499.	3.1	2
46	An Integrated Quasi-optical Analysis Method and Its Experimental Verification. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 31, 181.	2.2	1
47	Study of a two-layer dichroic for quasioptical network. Microwave and Optical Technology Letters, 2010, 52, 900-904.	1.4	1
48	Circularization and collimation of elliptical Gaussian beam based on kinematic and dynamic ray tracing. , 2013, , .		1
49	MIMO antennas for mobile handsets. , 2014, , .		1
50	Study on the Tunneling Mode in a Sub-Wavelength Open-Cavity Resonator Consisting of Single Negative Materials. IEEE Transactions on Antennas and Propagation, 2014, 62, 504-508.	5.1	1
51	Design of a novel multiband antenna for mobile terminals. , 2015, , .		1
52	Numerical and experimental verification of a trireflector compact antenna test range in the terahertz band. Microwave and Optical Technology Letters, 2015, 57, 1686-1689.	1.4	1
53	Design of a 94 GHz compact corrugated horn with ultra-low sidelobe. , 2016, , .		1
54	Compact triple band antenna array for GNSS application. , 2016, , .		1

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55	A wideband dual-polarized slot antenna array for high-gain millimeter-wave communications. , 2017, , .		1
56	A circularly polarized horn antenna with elliptical waveguide polarizer. Microwave and Optical Technology Letters, 2019, 61, 2681-2686.	1.4	1
57	Application of Faraday rotator in transceiver isolation system. , 2019, , .		1
58	Low-loss frequency selective surface for multi-band THz transmission measurement. Microwave and Optical Technology Letters, 2020, 62, 1860-1865.	1.4	1
59	A Dual-Band Non-destructive Dielectric Measurement Sensor Based on Complementary Split-Ring Resonator. Frontiers in Physics, 2021, 9, .	2.1	1
60	Broadband Terahertz Absorbers Based on Isolated Circular Graphene Patches. , 2020, , .		1
61	Experimental characterization of Gold Nanoparticle suspensions at W band using a quasi-optical bench. , 2011, , .		0
62	Dielectric measurement of gold nanoparticle dispersions using THz-Time domain spectroscopy. , 2012, , .		0
63	Photoconductive characteristics of silicon in millimeter-wave bands. , 2012, , .		0
64	Gaussian beam for antennas field pattern synthesis. , 2014, , .		0
65	Three-dimensional diffractive Gaussian beam analysis method for multi-reflector antennas. , 2014, , .		0
66	Analysis of focal region field of the offset tri-reflector for Compact Antenna Test Range. , 2014, , .		0
67	Design of tanh-profile corrugated feedhorn in quasi-optical system. , 2014, , .		0
68	Numerical and Experimental Verification of a 3D Quasi-Optical System. International Journal of Antennas and Propagation, 2015, 2015, 1-10.	1.2	0
69	Continuous-wave terahertz digital holography of 3THz quantum cascade laser. , 2015, , .		0
70	Corrugated matched horn with low side-lobes for high performance offset reflector systems. , 2015, , .		0
71	Design of a broadband UHF near-field RFID reader antenna. , 2016, , .		0
72	Design of frequency selective surfaces for a gyro-multiplier output system. , 2016, , .		0

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73	The design of push-broom scanning satellite antenna. , 2016, , .		0
74	Design of polarization-independent Electromagnetically Induced Transparency structure in terahertz band. , 2016, , .		0
75	A dual-polarized wideband substrate-integrated-waveguide-fed slot antenna array for 60 GHz. , 2017, , .		0
76	Design and experimental verification of wire grid polarizer on dielectric substrate for quasi-optical network system. , 2017, , .		0
77	Study of frequency-alterable microstrip antenna based on temperature sensing material. , 2017, , .		0
78	Study of reconfigurable circular polarization GNSS antenna. , 2017, , .		0
79	Design of graphene terahertz reflectarray based on boron nitride substrate. , 2017, , .		0
80	Design and research of highly selective frequency selective surfaces. , 2017, , .		0
81	Fast analysis of dual-reflectors quasi-optical system based on point matching method and Gaussian beam tracing. , 2017, , .		0
82	Parametric study on patch antenna based on silver nanowires. , 2017, , .		0
83	Theoretical and Experimental Comparison Results of Dual-Channel 3D Quasi-Optical Network System between Frequency Selective Surface and Wire Grid Polarizer. International Journal of Antennas and Propagation, 2018, 2018, 1-18.	1.2	0
84	Optimization algorithm of Gaussian beam expansion Based on Point matching. , 2019, , .		0
85	Theoretical Study of Millimeter Wave Attenuation in Particulate Environment. , 2019, , .		0
86	An Equivalent Dielectric Model for Terahertz Propagation in Rainfall Environment. , 2019, , .		0
87	A Polarization Rotator for Terahertz Propagation Measurement System. , 2019, , .		0
88	A Gaussian Beam Method for Push-Broom Antenna Design. IEEE Transactions on Antennas and Propagation, 2020, 68, 8144-8149.	5.1	0
89	Unsupervised SAR image segmentation based on kernel TMFs with belief propagation. Journal of Engineering, 2019, 2019, 6755-6758.	1.1	0
90	A 3D Printed Plasma Dielectric Resonator Antenna. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
91	A Method for Navigation System of Security Robot based on Millimeter Wave. , 2021, , .		0
92	A Design Method of Three-Dimensional Multireflector Quasi-Optical Systems Based on Gaussian Beam Mode Analysis. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 798-802.	4.0	0
93	Smile face array: Generating oblique incident and front output vortex beam for both TE and TM waves. IET Microwaves, Antennas and Propagation, 0, , .	1.4	0