

# Longfang Zou

## List of Publications by Citations

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52  
papers

2,406  
citations

27  
h-index

49  
g-index

68  
ext. papers

3,035  
ext. citations

5  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
52	Metamaterials in the Terahertz Regime. <i>IEEE Photonics Journal</i> , <b>2009</b> , 1, 99-118	1.8	225
51	Flexible metasurfaces and metamaterials: A review of materials and fabrication processes at micro- and nano-scales. <i>Applied Physics Reviews</i> , <b>2015</b> , 2, 011303	17.3	204
50	Mechanically Tunable Dielectric Resonator Metasurfaces at Visible Frequencies. <i>ACS Nano</i> , <b>2016</b> , 10, 133-41	16.7	198
49	Dielectric resonator nanoantennas at visible frequencies. <i>Optics Express</i> , <b>2013</b> , 21, 1344-52	3.3	147
48	Ultrabroadband reflective polarization convertor for terahertz waves. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 181111	3.4	136
47	Mechanically tunable terahertz metamaterials. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 121101	3.4	119
46	Experimental demonstration of reflectarray antennas at terahertz frequencies. <i>Optics Express</i> , <b>2013</b> , 21, 2875-89	3.3	91
45	Omnidirectional Cylindrical Dielectric Resonator Antenna With Dual Polarization. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 515-518	3.8	88
44	Terahertz reflectarray as a polarizing beam splitter. <i>Optics Express</i> , <b>2014</b> , 22, 16148-60	3.3	83
43	Dielectric Resonator Reflectarray as High-Efficiency Nonuniform Terahertz Metasurface. <i>ACS Photonics</i> , <b>2016</b> , 3, 1019-1026	6.3	67
42	Second-Order Terahertz Bandpass Frequency Selective Surface With Miniaturized Elements. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2015</b> , 5, 761-769	3.4	63
41	Tutorial: Terahertz beamforming, from concepts to realizations. <i>APL Photonics</i> , <b>2018</b> , 3, 051101	5.2	63
40	Plasmonic Resonance toward Terahertz Perfect Absorbers. <i>ACS Photonics</i> , <b>2014</b> , 1, 625-630	6.3	62
39	A Cross-Shaped Dielectric Resonator Antenna for Multifunction and Polarization Diversity Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 742-745	3.8	57
38	Terahertz Magnetic Mirror Realized with Dielectric Resonator Antennas. <i>Advanced Materials</i> , <b>2015</b> , 27, 7137-44	24	48
37	Flexible terahertz metamaterials for dual-axis strain sensing. <i>Optics Letters</i> , <b>2013</b> , 38, 2104-6	3	48
36	All-dielectric rod antenna array for terahertz communications. <i>APL Photonics</i> , <b>2018</b> , 3, 051707	5.2	43

35	Broadband Terahertz Circular-Polarization Beam Splitter. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1700852	8.1	42
34	Terahertz multi-beam antenna using photonic crystal waveguide and Luneburg lens. <i>APL Photonics</i> , <b>2018</b> , 3, 126105	5.2	41
33	Dielectrics for Terahertz Metasurfaces: Material Selection and Fabrication Techniques. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1900750	8.1	40
32	Demonstration of a highly efficient terahertz flat lens employing tri-layer metasurfaces. <i>Optics Letters</i> , <b>2017</b> , 42, 1867-1870	3	38
31	Recent Progress in Terahertz Metasurfaces. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2017</b> , 38, 1067-1084	2.2	36
30	Nanoscale TiO <sub>2</sub> dielectric resonator absorbers. <i>Optics Letters</i> , <b>2016</b> , 41, 3391-4	3	34
29	Integrated Silicon Photonic Crystals Toward Terahertz Communications. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800401	8.1	33
28	Phase change material based tunable reflectarray for free-space optical inter/intra chip interconnects. <i>Optics Express</i> , <b>2014</b> , 22, 24142-8	3.3	31
27	Hybrid metasurface for ultra-broadband terahertz modulation. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 181108	3.4	28
26	All-dielectric integration of dielectric resonator antenna and photonic crystal waveguide. <i>Optics Express</i> , <b>2017</b> , 25, 14706-14714	3.3	27
25	Terahertz Reflectarrays and Nonuniform Metasurfaces. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 1-18	3.8	26
24	Terahertz plasmonic Bessel beamformer. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 021101	3.4	26
23	Dielectric-resonator metasurfaces for broadband terahertz quarter- and half-wave mirrors. <i>Optics Express</i> , <b>2018</b> , 26, 14392-14406	3.3	23
22	Doped polymer for low-loss dielectric material in the terahertz range. <i>Optical Materials Express</i> , <b>2015</b> , 5, 1373	2.6	21
21	Analysis of 3D-printed metal for rapid-prototyped reflective terahertz optics. <i>Optics Express</i> , <b>2016</b> , 24, 17384-96	3.3	21
20	Ultra-wideband tri-layer transmissive linear polarization converter for terahertz waves. <i>APL Photonics</i> , <b>2020</b> , 5, 046101	5.2	20
19	Broadband and wide-angle reflective linear polarization converter for terahertz waves. <i>APL Photonics</i> , <b>2019</b> , 4, 096104	5.2	18
18	Low-Profile Terahertz Radar Based on Broadband Leaky-Wave Beam Steering. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2016</b> , 1-10	3.4	18

17	Polarization-dependent thin-film wire-grid reflectarray for terahertz waves. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 031111	3.4	17
16	Spectral and angular characteristics of dielectric resonator metasurface at optical frequencies. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 191109	3.4	17
15	Terahertz Reflectarray with Enhanced Bandwidth. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900791	8.1	14
14	Directional excitation of surface plasmons by dielectric resonators. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	13
13	Terahertz near-field imaging of dielectric resonators. <i>Optics Express</i> , <b>2017</b> , 25, 3756-3764	3.3	13
12	Broadband terahertz transmissive quarter-wave metasurface. <i>APL Photonics</i> , <b>2020</b> , 5, 096108	5.2	13
11	Characteristics of Effective-Medium-Clad Dielectric Waveguides. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2020</b> , 1-1	3.4	11
10	Efficiency and Scalability of Dielectric Resonator Antennas at Optical Frequencies. <i>IEEE Photonics Journal</i> , <b>2014</b> , 6, 1-10	1.8	9
9	Gratingless integrated tunneling multiplexer for terahertz waves. <i>Optica</i> , <b>2021</b> , 8, 621	8.6	8
8	Effective-medium-clad Bragg grating filters. <i>APL Photonics</i> , <b>2021</b> , 6, 076105	5.2	7
7	Tutorial on broadband transmissive metasurfaces for wavefront and polarization control of terahertz waves. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 061101	2.5	5
6	Terahertz transmissive half-wave metasurface with enhanced bandwidth. <i>Optics Letters</i> , <b>2021</b> , 46, 4164-4167	5	
5	All-Silicon Terahertz Planar Horn Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 1-1	3.8	3
4	Broadband Terahertz Quarter-Wave Plate Design <b>2019</b> ,		1
3	Resonance breakdown of dielectric resonator antennas on ground plane at visible frequencies <b>2015</b>		1
2	Plasmonic Absorber Based on Nano-scale Dielectric Resonator Antennas <b>2014</b> ,		1
1	Circuit-Based Design and Optimization for Broadband Terahertz Metasurfaces <b>2021</b> ,		1