

Longfang Zou

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

3,540
citations

117625

34
h-index

206112

48
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68
all docs

68
docs citations

68
times ranked

3296
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible metasurfaces and metamaterials: A review of materials and fabrication processes at micro- and nano-scales. <i>Applied Physics Reviews</i> , 2015, 2, 011303.	11.3	303
2	Metamaterials in the Terahertz Regime. <i>IEEE Photonics Journal</i> , 2009, 1, 99-118.	2.0	295
3	Mechanically Tunable Dielectric Resonator Metasurfaces at Visible Frequencies. <i>ACS Nano</i> , 2016, 10, 133-141.	14.6	255
4	Dielectric resonator nanoantennas at visible frequencies. <i>Optics Express</i> , 2013, 21, 1344.	3.4	187
5	Ultrabroadband reflective polarization convertor for terahertz waves. <i>Applied Physics Letters</i> , 2014, 105, 181111.	3.3	186
6	Mechanically tunable terahertz metamaterials. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	142
7	Tutorial: Terahertz beamforming, from concepts to realizations. <i>APL Photonics</i> , 2018, 3, .	5.7	130
8	Omnidirectional Cylindrical Dielectric Resonator Antenna With Dual Polarization. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012, 11, 515-518.	4.0	126
9	Experimental demonstration of reflectarray antennas at terahertz frequencies. <i>Optics Express</i> , 2013, 21, 2875.	3.4	124
10	Terahertz reflectarray as a polarizing beam splitter. <i>Optics Express</i> , 2014, 22, 16148.	3.4	111
11	Second-Order Terahertz Bandpass Frequency Selective Surface With Miniaturized Elements. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 761-769.	3.1	92
12	Dielectrics for Terahertz Metasurfaces: Material Selection and Fabrication Techniques. <i>Advanced Optical Materials</i> , 2020, 8, 1900750.	7.3	84
13	Dielectric Resonator Reflectarray as High-Efficiency Nonuniform Terahertz Metasurface. <i>ACS Photonics</i> , 2016, 3, 1019-1026.	6.6	82
14	A Cross-Shaped Dielectric Resonator Antenna for Multifunction and Polarization Diversity Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011, 10, 742-745.	4.0	76
15	Plasmonic Resonance toward Terahertz Perfect Absorbers. <i>ACS Photonics</i> , 2014, 1, 625-630.	6.6	75
16	All-dielectric rod antenna array for terahertz communications. <i>APL Photonics</i> , 2018, 3, .	5.7	75
17	Integrated Silicon Photonic Crystals Toward Terahertz Communications. <i>Advanced Optical Materials</i> , 2018, 6, 1800401.	7.3	71
18	Terahertz multi-beam antenna using photonic crystal waveguide and Luneburg lens. <i>APL Photonics</i> , 2018, 3, 126105.	5.7	69

#	ARTICLE	IF	CITATIONS
19	Recent Progress in Terahertz Metasurfaces. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1067-1084.	2.2	64
20	Broadband Terahertz Circular Polarization Beam Splitter. Advanced Optical Materials, 2018, 6, 1700852.	7.3	64
21	Terahertz Magnetic Mirror Realized with Dielectric Resonator Antennas. Advanced Materials, 2015, 27, 7137-7144.	21.0	63
22	Flexible terahertz metamaterials for dual-axis strain sensing. Optics Letters, 2013, 38, 2104.	3.3	59
23	Demonstration of a highly efficient terahertz flat lens employing tri-layer metasurfaces. Optics Letters, 2017, 42, 1867.	3.3	54
24	All-dielectric integration of dielectric resonator antenna and photonic crystal waveguide. Optics Express, 2017, 25, 14706.	3.4	46
25	Ultra-wideband tri-layer transmissive linear polarization converter for terahertz waves. APL Photonics, 2020, 5, 046101.	5.7	46
26	Characteristics of Effective-Medium-Clad Dielectric Waveguides. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 28-41.	3.1	45
27	Broadband and wide-angle reflective linear polarization converter for terahertz waves. APL Photonics, 2019, 4, 096104.	5.7	42
28	Phase change material based tunable reflectarray for free-space optical inter/intra chip interconnects. Optics Express, 2014, 22, 24142.	3.4	41
29	Terahertz Reflectarrays and Nonuniform Metasurfaces. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-18.	2.9	41
30	Hybrid metasurface for ultra-broadband terahertz modulation. Applied Physics Letters, 2014, 105, .	3.3	38
31	Terahertz plasmonic Bessel beamformer. Applied Physics Letters, 2015, 106, .	3.3	38
32	Low-Profile Terahertz Radar Based on Broadband Leaky-Wave Beam Steering. IEEE Transactions on Terahertz Science and Technology, 2016, , 1-10.	3.1	37
33	Dielectric-resonator metasurfaces for broadband terahertz quarter- and half-wave mirrors. Optics Express, 2018, 26, 14392.	3.4	37
34	Nanoscale TiO ₂ dielectric resonator absorbers. Optics Letters, 2016, 41, 3391.	3.3	36
35	Gratingless integrated tunneling multiplexer for terahertz waves. Optica, 2021, 8, 621.	9.3	29
36	Broadband terahertz transmissive quarter-wave metasurface. APL Photonics, 2020, 5, .	5.7	28

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37	Doped polymer for low-loss dielectric material in the terahertz range. <i>Optical Materials Express</i> , 2015, 5, 1373.	3.0	26
38	Polarization-dependent thin-film wire-grid reflectarray for terahertz waves. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	25
39	Analysis of 3D-printed metal for rapid-prototyped reflective terahertz optics. <i>Optics Express</i> , 2016, 24, 17384.	3.4	24
40	Effective-medium-clad Bragg grating filters. <i>APL Photonics</i> , 2021, 6, .	5.7	23
41	Terahertz Reflectarray with Enhanced Bandwidth. <i>Advanced Optical Materials</i> , 2019, 7, 1900791.	7.3	22
42	Tutorial on broadband transmissive metasurfaces for wavefront and polarization control of terahertz waves. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	20
43	Spectral and angular characteristics of dielectric resonator metasurface at optical frequencies. <i>Applied Physics Letters</i> , 2014, 105, 191109.	3.3	19
44	Terahertz near-field imaging of dielectric resonators. <i>Optics Express</i> , 2017, 25, 3756.	3.4	18
45	Directional excitation of surface plasmons by dielectric resonators. <i>Physical Review B</i> , 2015, 91, .	3.2	16
46	Terahertz transmissive half-wave metasurface with enhanced bandwidth. <i>Optics Letters</i> , 2021, 46, 4164.	3.3	16
47	Efficiency and Scalability of Dielectric Resonator Antennas at Optical Frequencies. <i>IEEE Photonics Journal</i> , 2014, 6, 1-10.	2.0	14
48	All-Silicon Terahertz Planar Horn Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 2181-2185.	4.0	13
49	Integrated Luneburg and Maxwell Fisheye Lenses for the Terahertz Range. , 2019, , .		3
50	Plasmonic Absorber Based on Nano-scale Dielectric Resonator Antennas. , 2014, , .		2
51	Resonance breakdown of dielectric resonator antennas on ground plane at visible frequencies. , 2015, , .		2
52	Terahertz Metasurfaces for Beamforming and Polarization Conversion. , 2018, , .		1
53	Broadband Terahertz Quarter-Wave Plate Design. , 2019, , .		1
54	Dispersion in broadband terahertz photonic crystal waveguides employing Bragg-mirror suppression. , 2020, , .		1

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55	Circuit-Based Design and Optimization for Broadband Terahertz Metasurfaces. , 2021, , .		1
56	Integrated Terahertz Tunneling Filter. , 2021, , .		1
57	Continuous Leakage from Slow-Wave Structure for Integrated All-Dielectric Uniform Leaky Wave Antenna. , 2022, , .		1
58	Mutual coupling reduction in a multi-mode multi-function dielectric resonator antenna. , 2012, , .		0
59	Comparison between an optical dielectric resonator nano-antenna reflectarray and an equivalent dielectric grating reflector. , 2013, , .		0
60	Dielectric resonator nano-antennas: A pathway to efficient optical antennas. , 2014, , .		0
61	Efficient terahertz reflectarray based on dielectric resonator antennas. , 2016, , .		0
62	Silicon terahertz resonators. , 2016, , .		0
63	Terahertz Focusing Reflectarray with Enhanced Bandwidth. , 2018, , .		0
64	Metallic and dielectric resonators in broadband half-wave mirrors for terahertz frequencies. , 2018, , .		0
65	Broadband and wide-angle terahertz reflective half-wave mirror. , 2019, , .		0
66	Terahertz Slab-Mode Beam Launchers using Photonic Crystal Waveguides and Integrated Optics. , 2020, , .		0