

Jianqiang Gu

List of Publications by Year in descending order

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67
papers

4,223
citations

218381

26
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168136

53
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67
all docs

67
docs citations

67
times ranked

3144
citing authors

#	ARTICLE	IF	CITATIONS
1	Active control of electromagnetically induced transparency analogue in terahertz metamaterials. Nature Communications, 2012, 3, 1151.	5.8	1,008
2	Triple-band terahertz metamaterial absorber: Design, experiment, and physical interpretation. Applied Physics Letters, 2012, 101, .	1.5	404
3	Broadband Terahertz Wave Deflection Based on C-shape Complex Metamaterials with Phase Discontinuities. Advanced Materials, 2013, 25, 4567-4572.	11.1	353
4	A perfect metamaterial polarization rotator. Applied Physics Letters, 2013, 103, .	1.5	318
5	Electromagnetically induced transparency in terahertz plasmonic metamaterials via dual excitation pathways of the dark mode. Applied Physics Letters, 2012, 100, .	1.5	229
6	Highly flexible broadband terahertz metamaterial quarter-wave plate. Laser and Photonics Reviews, 2014, 8, 626-632.	4.4	217
7	A Broadband Metasurface-Based Terahertz Flat-Lens Array. Advanced Optical Materials, 2015, 3, 779-785.	3.6	175
8	Broadband metasurface holograms: toward complete phase and amplitude engineering. Scientific Reports, 2016, 6, 32867.	1.6	160
9	High-Efficiency Dielectric Metasurfaces for Polarization-Dependent Terahertz Wavefront Manipulation. Advanced Optical Materials, 2018, 6, 1700773.	3.6	137
10	Electrically Tunable Perfect Terahertz Absorber Based on a Graphene Salisbury Screen Hybrid Metasurface. Advanced Optical Materials, 2020, 8, 1900660.	3.6	79
11	Frequency-agile electromagnetically induced transparency analogue in terahertz metamaterials. Optics Letters, 2016, 41, 4562.	1.7	67
12	Broadband non-polarizing terahertz beam splitters with variable split ratio. Applied Physics Letters, 2017, 111, .	1.5	67
13	Full-State Controls of Terahertz Waves Using Tensor Coding Metasurfaces. ACS Applied Materials & Interfaces, 2017, 9, 21503-21514.	4.0	66
14	All-Dielectric Meta-Holograms with Holographic Images Transforming Longitudinally. ACS Photonics, 2018, 5, 599-606.	3.2	58
15	Asymmetric excitation of surface plasmons by dark mode coupling. Science Advances, 2016, 2, e1501142.	4.7	57
16	Polarization-controlled surface plasmon holography. Laser and Photonics Reviews, 2017, 11, 1600212.	4.4	55
17	Anomalous Surface Wave Launching by Handedness Phase Control. Advanced Materials, 2015, 27, 7123-7129.	11.1	54
18	Polarization and Frequency Multiplexed Terahertz Meta-Holography. Advanced Optical Materials, 2017, 5, 1700277.	3.6	54

#	ARTICLE	IF	CITATIONS
19	Modulating the fundamental inductive-capacitive resonance in asymmetric double-split ring terahertz metamaterials. <i>Applied Physics Letters</i> , 2011, 98, 121114.	1.5	45
20	Dynamic mode coupling in terahertz metamaterials. <i>Scientific Reports</i> , 2015, 5, 10823.	1.6	41
21	A Broadband THz-TDS System Based on DSTMS Emitter and LTG InGaAs/InAlAs Photoconductive Antenna Detector. <i>Scientific Reports</i> , 2016, 6, 26949.	1.6	32
22	Membrane metamaterial resonators with a sharp resonance: A comprehensive study towards practical terahertz filters and sensors. <i>AIP Advances</i> , 2012, 2, .	0.6	30
23	Broadband Terahertz Wave Deflection Based on C-shaped Complex Metamaterials with Phase Discontinuities (<i>Adv. Mater.</i> 33/2013). <i>Advanced Materials</i> , 2013, 25, 4566-4566.	11.1	28
24	A Metamaterial-Based Terahertz Low-Pass Filter With Low Insertion Loss and Sharp Rejection. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 832-837.	2.0	28
25	Active control of polarization-dependent near-field coupling in hybrid metasurfaces. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	28
26	Near-field surface plasmons on quasicrystal metasurfaces. <i>Scientific Reports</i> , 2016, 6, 26.	1.6	27
27	Achromatic Dielectric Metasurface with Linear Phase Gradient in the Terahertz Domain. <i>Advanced Optical Materials</i> , 2021, 9, 2001403.	3.6	27
28	Anisotropic Plasmonic Response of Black Phosphorus Nanostrips in Terahertz Metamaterials. <i>IEEE Photonics Journal</i> , 2018, 10, 1-9.	1.0	24
29	Multifunctional All-Dielectric Metasurfaces for Terahertz Multiplexing. <i>Advanced Optical Materials</i> , 2021, 9, 2100506.	3.6	24
30	Broadband Terahertz Transparency in a Switchable Metasurface. <i>IEEE Photonics Journal</i> , 2015, 7, 1-8.	1.0	23
31	Aperiodic-metamaterial-based absorber. <i>APL Materials</i> , 2017, 5, .	2.2	23
32	Rotated Pillars for Functional Integrated On-Chip Terahertz Spoof Surface Plasmon Polariton Devices. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	23
33	Ultra-broadband microwave metamaterial absorber with tetramethylurea inclusion. <i>Optics Express</i> , 2019, 27, 25595.	1.7	20
34	All-Dielectric Meta-lens Designed for Photoconductive Terahertz Antennas. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	19
35	Terahertz Switchable Focusing Planar Lens With a Nanoscale Vanadium Dioxide Integrated Metasurface. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2022, 12, 13-22.	2.0	19
36	Plasmonic Analog of Electromagnetically Induced Transparency in Stereo Metamaterials. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-7.	1.9	18

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37	Plasmon-induced transparency in terahertz metamaterials. <i>Science China Information Sciences</i> , 2013, 56, 1-18.	2.7	17
38	Dielectric properties of MgO ϵ ZnO ϵ TiO ₂ -based ceramics at 1 ϵ MHz and THz frequencies. <i>Journal of Materials Science</i> , 2017, 52, 9335-9343.	1.7	17
39	Multichannel terahertz quasi-perfect vortex beams generation enabled by multifunctional metasurfaces. <i>Nanophotonics</i> , 2022, 11, 3631-3640.	2.9	17
40	Role of mode coupling on transmission properties of subwavelength composite hole-patch structures. <i>Applied Physics Letters</i> , 2010, 96, 251102.	1.5	16
41	Terahertz single-pixel near-field imaging based on active tunable subwavelength metallic grating. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	14
42	Anomalous Wave Propagation in Topological Transition Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801483.	3.6	13
43	Coupling ϵ Mediated Selective Spin ϵ to ϵ Plasmonic ϵ Orbital Angular Momentum Conversion. <i>Advanced Optical Materials</i> , 2019, 7, 1900713.	3.6	11
44	All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. <i>IEEE Photonics Journal</i> , 2020, 12, 1-10.	1.0	11
45	Water Dynamics in the Hydration Shell of Amphiphilic Macromolecules. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2971-2977.	1.2	10
46	Negative refraction in twisted hyperbolic metasurfaces. <i>Nanophotonics</i> , 2022, 11, 1977-1987.	2.9	10
47	Plasmonic metalens based on coupled resonators for focusing of surface plasmons. <i>Scientific Reports</i> , 2016, 6, 37861.	1.6	9
48	Simultaneous Manipulation of Electric and Magnetic Surface Waves by Topological Hyperbolic Metasurfaces. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4203-4209.	2.0	8
49	Multi-wavelength lenses for terahertz surface wave. <i>Optics Express</i> , 2017, 25, 24872.	1.7	7
50	Tailoring electromagnetic responses in terahertz superconducting metamaterials. <i>Frontiers of Optoelectronics</i> , 2015, 8, 44-56.	1.9	6
51	On/Off Switching of Valley Topological Edge States in the Terahertz Region. <i>IEEE Photonics Journal</i> , 2022, 14, 1-6.	1.0	6
52	Photoconductive Meta ϵ Antenna Enabling Terahertz Amplitude Spectrum Manipulation. <i>Advanced Photonics Research</i> , 2021, 2, 2000036.	1.7	5
53	Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. <i>IEEE Photonics Journal</i> , 2020, 12, 1-9.	1.0	4
54	Broadband time-domain terahertz radar: Cross section measurement and imaging. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
55	From Terahertz Surface Waves to Spoof Surface Plasmon Polaritons. , 2018, , .		1
56	H-type Photoconductive Antennas Manipulated by Nano- And Micron-Scale Meta-Atoms. , 2021, , .		1
57	Experimental Study of the Transmission and Reflection Properties of Very Deep Zero-order Metallic Gratings with Subwavelength Slits in THz Frequency Region. , 2006, , .		0
58	Plasmon-induced transparency in terahertz metamaterials. , 2012, , .		0
59	Broadband and high-efficient terahertz wave deflection based on C-shaped complex metamaterials with phase discontinuities. , 2013, , .		0
60	Metamaterial induced terahertz transparency and absorption. , 2014, , .		0
61	Active graphene-silicon hybrid metamaterial devices. , 2014, , .		0
62	Terahertz dielectric properties of MgO-TiO ₂ -ZnO based ceramics. , 2015, , .		0
63	Active terahertz modulations based on graphene-silicon hybrid structures. , 2015, , .		0
64	High-Performance and Low-Crosstalk Terahertz Plasmonic Crossings. , 2019, , .		0
65	Broadband Terahertz Achromatic Metasurface with Linear Spatial Phase Gradients. , 2021, , .		0
66	Multifunctional dielectric terahertz metasurfaces via spin-decoupled phase control. , 2021, , .		0
67	Multifunctional Spatial Mode Multiplexers Based on All-Dielectric Metasurfaces Working at Terahertz Frequencies. , 2021, , .		0