Jianqiang Gu

List of Publications by Year in descending order

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67 papers	4,223 citations	218677 26 h-index	168389 53 g-index
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.	12.8	1,008
2	Triple-band terahertz metamaterial absorber: Design, experiment, and physical interpretation. Applied Physics Letters, 2012, 101, .	3.3	404
3	Broadband Terahertz Wave Deflection Based on Câ€shape Complex Metamaterials with Phase Discontinuities. Advanced Materials, 2013, 25, 4567-4572.	21.0	353
4	A perfect metamaterial polarization rotator. Applied Physics Letters, 2013, 103, .	3.3	318
5	Electromagnetically induced transparency in terahertz plasmonic metamaterials via dual excitation pathways of the dark mode. Applied Physics Letters, 2012, 100, .	3.3	229
6	Highly flexible broadband terahertz metamaterial quarterâ€wave plate. Laser and Photonics Reviews, 2014, 8, 626-632.	8.7	217
7	A Broadband Metasurfaceâ€Based Terahertz Flatâ€Lens Array. Advanced Optical Materials, 2015, 3, 779-785.	7.3	175
8	Broadband metasurface holograms: toward complete phase and amplitude engineering. Scientific Reports, 2016, 6, 32867.	3.3	160
9	Highâ€Efficiency Dielectric Metasurfaces for Polarizationâ€Dependent Terahertz Wavefront Manipulation. Advanced Optical Materials, 2018, 6, 1700773.	7.3	137
10	Electrically Tunable Perfect Terahertz Absorber Based on a Graphene Salisbury Screen Hybrid Metasurface. Advanced Optical Materials, 2020, 8, 1900660.	7.3	79
11	Frequency-agile electromagnetically induced transparency analogue in terahertz metamaterials. Optics Letters, 2016, 41, 4562.	3.3	67
12	Broadband non-polarizing terahertz beam splitters with variable split ratio. Applied Physics Letters, 2017, 111, .	3.3	67
13	Full-State Controls of Terahertz Waves Using Tensor Coding Metasurfaces. ACS Applied Materials & Interfaces, 2017, 9, 21503-21514.	8.0	66
14	All-Dielectric Meta-Holograms with Holographic Images Transforming Longitudinally. ACS Photonics, 2018, 5, 599-606.	6.6	58
15	Asymmetric excitation of surface plasmons by dark mode coupling. Science Advances, 2016, 2, e1501142.	10.3	57
16	Polarizationâ€controlled surface plasmon holography. Laser and Photonics Reviews, 2017, 11, 1600212.	8.7	55
17	Anomalous Surface Wave Launching by Handedness Phase Control. Advanced Materials, 2015, 27, 7123-7129.	21.0	54
18	Polarization and Frequency Multiplexed Terahertz Metaâ€Holography. Advanced Optical Materials, 2017, 5, 1700277.	7.3	54

#	Article	IF	Citations
19	Modulating the fundamental inductive-capacitive resonance in asymmetric double-split ring terahertz metamaterials. Applied Physics Letters, 2011, 98, 121114.	3.3	45
20	Dynamic mode coupling in terahertz metamaterials. Scientific Reports, 2015, 5, 10823.	3.3	41
21	A Broadband THz-TDS System Based on DSTMS Emitter and LTG InGaAs/InAlAs Photoconductive Antenna Detector. Scientific Reports, 2016, 6, 26949.	3.3	32
22	Membrane metamaterial resonators with a sharp resonance: A comprehensive study towards practical terahertz filters and sensors. AIP Advances, 2012, 2, .	1.3	30
23	Broadband Terahertz Wave Deflection Based on Câ€shape Complex Metamaterials with Phase Discontinuities (Adv. Mater. 33/2013). Advanced Materials, 2013, 25, 4566-4566.	21.0	28
24	A Metamaterial-Based Terahertz Low-Pass Filter With Low Insertion Loss and Sharp Rejection. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 832-837.	3.1	28
25	Active control of polarization-dependent near-field coupling in hybrid metasurfaces. Applied Physics Letters, 2018, 113, .	3.3	28
26	Near-field surface plasmons on quasicrystal metasurfaces. Scientific Reports, 2016, 6, 26.	3.3	27
27	Achromatic Dielectric Metasurface with Linear Phase Gradient in the Terahertz Domain. Advanced Optical Materials, 2021, 9, 2001403.	7.3	27
28	Anisotropic Plasmonic Response of Black Phosphorus Nanostrips in Terahertz Metamaterials. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	24
29	Multifunctional Allâ€Dielectric Metasurfaces for Terahertz Multiplexing. Advanced Optical Materials, 2021, 9, 2100506.	7.3	24
30	Broadband Terahertz Transparency in a Switchable Metasurface. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	23
31	Aperiodic-metamaterial-based absorber. APL Materials, 2017, 5, .	5.1	23
32	Rotated Pillars for Functional Integrated Onâ€Chip Terahertz Spoof Surfaceâ€Plasmonâ€Polariton Devices. Advanced Optical Materials, 2022, 10, .	7.3	23
33	Ultra-broadband microwave metamaterial absorber with tetramethylurea inclusion. Optics Express, 2019, 27, 25595.	3.4	20
34	All-Dielectric Meta-lens Designed for Photoconductive Terahertz Antennas. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	19
35	Terahertz Switchable Focusing Planar Lens With a Nanoscale Vanadium Dioxide Integrated Metasurface. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 13-22.	3.1	19
36	Plasmonic Analog of Electromagnetically Induced Transparency in Stereo Metamaterials. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-7.	2.9	18

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37	Plasmon-induced transparency in terahertz metamaterials. Science China Information Sciences, 2013, 56, 1-18.	4.3	17
38	Dielectric properties of MgOâ€“ZnOâ€“TiO2-based ceramics at 1ÂMHz and THz frequencies. Journal of Materials Science, 2017, 52, 9335-9343.	3.7	17
39	Multichannel terahertz quasi-perfect vortex beams generation enabled by multifunctional metasurfaces. Nanophotonics, 2022, 11, 3631-3640.	6.0	17
40	Role of mode coupling on transmission properties of subwavelength composite hole-patch structures. Applied Physics Letters, 2010, 96, 251102.	3.3	16
41	Terahertz single-pixel near-field imaging based on active tunable subwavelength metallic grating. Applied Physics Letters, 2020, 116, .	3.3	14
42	Anomalous Wave Propagation in Topological Transition Metasurfaces. Advanced Optical Materials, 2019, 7, 1801483.	7.3	13
43	Couplingâ€Mediated Selective Spinâ€toâ€Plasmonicâ€Orbital Angular Momentum Conversion. Advanced Optical Materials, 2019, 7, 1900713.	7.3	11
44	All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	11
45	Water Dynamics in the Hydration Shell of Amphiphilic Macromolecules. Journal of Physical Chemistry B, 2019, 123, 2971-2977.	2.6	10
46	Negative refraction in twisted hyperbolic metasurfaces. Nanophotonics, 2022, 11, 1977-1987.	6.0	10
47	Plasmonic metalens based on coupled resonators for focusing of surface plasmons. Scientific Reports, 2016, 6, 37861.	3.3	9
48	Simultaneous Manipulation of Electric and Magnetic Surface Waves by Topological Hyperbolic Metasurfaces. ACS Applied Electronic Materials, 2021, 3, 4203-4209.	4.3	8
49	Multi-wavelength lenses for terahertz surface wave. Optics Express, 2017, 25, 24872.	3.4	7
50	Tailoring electromagnetic responses in terahertz superconducting metamaterials. Frontiers of Optoelectronics, 2015, 8, 44-56.	3.7	6
51	On/Off Switching of Valley Topological Edge States in the Terahertz Region. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	6
52	Photoconductive Metaâ€Antenna Enabling Terahertz Amplitude Spectrum Manipulation. Advanced Photonics Research, 2021, 2, 2000036.	3.6	5
53	Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. IEEE Photonics Journal, 2020, 12, 1-9.	2.0	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<inf>2</inf>-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