Xiaoguang Zhao

List of Publications by Year
in descending order

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61 papers	1,729 citations	331259 21 h-index	276539 41 g-index
63 all docs	63 docs citations	63 times ranked	1679 citing authors

#	Article	IF	Citations
1	Optically Modulated Ultra-Broadband All-Silicon Metamaterial Terahertz Absorbers. ACS Photonics, 2019, 6, 830-837.	3.2	161
2	Electromechanically tunable metasurface transmission waveplate at terahertz frequencies. Optica, 2018, 5, 303.	4.8	134
3	Terahertz investigation of bound states in the continuum of metallic metasurfaces. Optica, 2020, 7, 1548.	4.8	108
4	Nonlinear Terahertz Metamaterials via Field-Enhanced Carrier Dynamics in GaAs. Physical Review Letters, 2013, 110, 217404.	2.9	105
5	Voltage-tunable dual-layer terahertz metamaterials. Microsystems and Nanoengineering, 2016, 2, 16025.	3.4	79
6	A three-dimensional all-metal terahertz metamaterial perfect absorber. Applied Physics Letters, 2017, 111, .	1.5	75
7	Nonlinear terahertz metamaterial perfect absorbers using GaAs [Invited]. Photonics Research, 2016, 4, A16.	3.4	67
8	Optically tunable metamaterial perfect absorber on highly flexible substrate. Sensors and Actuators A: Physical, 2015, 231, 74-80.	2.0	65
9	Nonlinear terahertz devices utilizing semiconducting plasmonic metamaterials. Light: Science and Applications, 2016, 5, e16078-e16078.	7.7	65
10	Integrating microsystems with metamaterials towards metadevices. Microsystems and Nanoengineering, 2019, 5, 5.	3.4	65
11	Boosting magnetic resonance imaging signal-to-noise ratio using magnetic metamaterials. Communications Physics, 2019, 2, .	2.0	65
12	Optically Tunable Terahertz Metamaterials on Highly Flexible Substrates. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 702-708.	2.0	61
13	Identifying the perfect absorption of metamaterial absorbers. Physical Review B, 2018, 97, .	1.1	54
14	Terahertz-Driven Luminescence and Colossal Stark Effect in CdSeâ€“CdS Colloidal Quantum Dots. Nano Letters, 2017, 17, 5375-5380.	4.5	53
15	A survey of theoretical models for terahertz electromagnetic metamaterial absorbers. Sensors and Actuators A: Physical, 2019, 287, 21-28.	2.0	52
16	Analysis of the thickness dependence of metamaterial absorbers at terahertz frequencies. Optics Express, 2018, 26, 2242.	1.7	48
17	Terahertz metamaterial perfect absorber with continuously tunable air spacer layer. Applied Physics Letters, 2018, 113, .	1.5	42
18	Intelligent Metamaterials Based on Nonlinearity for Magnetic Resonance Imaging. Advanced Materials, 2019, 31, e1905461.	11.1	41

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19	Broadband Terahertz Silicon Membrane Metasurface Absorber. ACS Photonics, 2022, 9, 1150-1156.	3.2	32
20	Photo-induced terahertz near-field dynamics of graphene/InAs heterostructures. Optics Express, 2019, 27, 13611.	1.7	25
21	Terahertz radiation-induced sub-cycle field electron emission across a split-gap dipole antenna. Applied Physics Letters, 2015, 107, .	1.5	23
22	Real-time tunable phase response and group delay in broadside coupled split-ring resonators. Physical Review B, 2019, 99, .	1.1	22
23	An air-spaced terahertz metamaterial perfect absorber. Sensors and Actuators A: Physical, 2018, 280, 303-308.	2.0	21
24	Terahertz Dispersion Characteristics of Super-aligned Multi-walled Carbon Nanotubes and Enhanced Transmission through Subwavelength Apertures. Scientific Reports, 2018, 8, 2087.	1.6	18
25	Implementing infrared metamaterial perfect absorbers using dispersive dielectric spacers. Optics Express, 2019, 27, 1727.	1.7	17
26	Polarization insensitive, metamaterial absorber-enhanced long-wave infrared detector. Optics Express, 2020, 28, 28843.	1.7	17
27	Terahertz saturable absorption in superconducting metamaterials. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2649.	0.9	15
28	Broadband extraordinary terahertz transmission through super-aligned carbon nanotubes film. Optics Express, 2016, 24, 15730.	1.7	15
29	Terahertz-Driven Stark Spectroscopy of CdSe and CdSeâ€“CdS Coreâ€“Shell Quantum Dots. Nano Letters, 2019, 19, 8125-8131.	4.5	15
30	Ultrathin Terahertz Triple-Band Metamaterial Absorbers: Consideration of Interlayer Coupling. Physical Review Applied, 2020, 14, .	1.5	15
31	On-demand terahertz surface wave generation with microelectromechanical-system-based metasurface. Optica, 2022, 9, 17.	4.8	15
32	Diatom Frustuleâ€Inspired Metamaterial Absorbers: The Effect of Hierarchical Pattern Arrays. Advanced Functional Materials, 2019, 29, 1809029.	7.8	14
33	Broadband electrically tunable VO₂â€‘Metamaterial terahertz switch with suppressed reflection. Microwave and Optical Technology Letters, 2020, 62, 2782-2790.	0.9	14
34	Auxeticsâ€Inspired Tunable Metamaterials for Magnetic Resonance Imaging. Advanced Materials, 2022, 34, e2109032.	11.1	14
35	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial. Advanced Optical Materials, 2021, 9, 2101215.	3.6	12
36	Plasmonic heating induced by Au nanoparticles for quasi-ballistic thermal transport in multi-walled carbon nanotubes. Nanoscale, 2019, 11, 7572-7581.	2.8	10

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37	Glass fracture by focusing of laser-generated nanosecond surface acoustic waves. Scripta Materialia, 2019, 158, 42-45.	2.6	10
38	Strong Metasurfaceâ€“Josephson Plasma Resonance Coupling in Superconducting La 2â^' x Sr x CuO 4. Advanced Optical Materials, 2019, 7, 1900712.	3.6	9
39	Research on Laser Trimming of Silicon MEMS Vibratory Gyroscopes. Integrated Ferroelectrics, 2011, 129, 37-44.	0.3	8
40	Silica Nanowire Growth on Coscinodiscus Species Diatom Frustules via Vaporâ€“Liquidâ€“Solid Process. Small, 2018, 14, 1801822.	5.2	8
41	Enabling a Microfluidic RFID Readout System via Miniaturization and Integration. Journal of Microelectromechanical Systems, 2015, 24, 395-403.	1.7	7
42	Absorption-Mode Splitting of Terahertz Metamaterial Mediated by Coupling of Spoof Surface Plasmon Polariton. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 626-634.	2.0	6
43	Microfluidic channel-based wireless charging and communication platform for microsensors with miniaturized onboard antenna. Journal of Micromechanics and Microengineering, 2016, 26, 124002.	1.5	5
44	A Magnetically Coupled Communication and Charging Platform for Microsensors. Journal of Microelectromechanical Systems, 2017, 26, 1099-1109.	1.7	4
45	Nonreciprocal Magnetic Coupling Using Nonlinear Metaâ€Atoms. Advanced Science, 2020, 7, 2001443.	5.6	4
46	Optically Tunable All-Dielectric Broadband Terahertz Metamaterial Perfect Absorber. , 2019, , .		3
47	Metamaterials: Diatom Frustuleâ€Inspired Metamaterial Absorbers: The Effect of Hierarchical Pattern Arrays (Adv. Funct. Mater. 22/2019). Advanced Functional Materials, 2019, 29, 1970151.	7.8	3
48	Metamaterial-enhanced near-field readout platform for passive microsensor tags. Microsystems and Nanoengineering, 2022, 8, 28.	3.4	3
49	Wirelessly powered micro-tracer enabled by miniaturized antenna and microfluidic channel. Journal of Physics: Conference Series, 2015, 660, 012038.	0.3	2
50	Integrated Air Spaced Terahertz Metamaterial Absorber with High Quality Factor. , 2019, , .		1
51	Comprehensive, High Throughput Screening of Neuron Behavior on Gradient Micro-Alignment Topographies. , 2019, , .		1
52	Auxeticsâ€Inspired Tunable Metamaterials for Magnetic Resonance Imaging (Adv. Mater. 6/2022). Advanced Materials, 2022, 34, .	11.1	1
53	THz materials discovery and integration: The search for novel functionality. , 2015, , .		0
54	A high-Q three-dimensional terahertz metamaterial perfect absorber. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	A high-efficiency magnetically coupled charging and communication platform for microsensors. , 2018, , .		0
56	Integrating Microsystems with Metamaterials Towards Metadevices. , 2019, , .		0
57	Integrating Microsystems with Metamaterials Towards Metadevices. , 2019, , .		0
58	A High Sensitivity Microfluidic Channel Enabled Terahertz Metamaterial Absorber For Sensing And Detectio. , 2019, , .		0
59	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial (Advanced Optical Materials) Tj ETQq1 1 0.784314 rgBT /Over	3.6	0
60	Ultrafast broadband tuning of InAs THz plasmonic arrays. , 2021, , .		0
61	Optically tunable broadband terahertz dielectric membrane metasurface absorber. , 2021, , .		0