

Xiaoguang Zhao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

1,051
citations

18
h-index

31
g-index

63
ext. papers

1,407
ext. citations

7
avg. IF

4.51
L-index

#	Paper	IF	Citations
51	Electromechanically tunable metasurface transmission waveplate at terahertz frequencies. <i>Optica</i> , 2018 , 5, 303	8.6	94
50	Optically Modulated Ultra-Broadband All-Silicon Metamaterial Terahertz Absorbers. <i>ACS Photonics</i> , 2019 , 6, 830-837	6.3	92
49	Nonlinear terahertz metamaterials via field-enhanced carrier dynamics in GaAs. <i>Physical Review Letters</i> , 2013 , 110, 217404	7.4	82
48	Voltage-tunable dual-layer terahertz metamaterials. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16025	7.7	62
47	Nonlinear terahertz metamaterial perfect absorbers using GaAs [Invited]. <i>Photonics Research</i> , 2016 , 4, A16	6	55
46	Optically Tunable Terahertz Metamaterials on Highly Flexible Substrates. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 702-708	3.4	53
45	A three-dimensional all-metal terahertz metamaterial perfect absorber. <i>Applied Physics Letters</i> , 2017 , 111, 051101	3.4	53
44	Optically tunable metamaterial perfect absorber on highly flexible substrate. <i>Sensors and Actuators A: Physical</i> , 2015 , 231, 74-80	3.9	50
43	Nonlinear terahertz devices utilizing semiconducting plasmonic metamaterials. <i>Light: Science and Applications</i> , 2016 , 5, e16078	16.7	46
42	Identifying the perfect absorption of metamaterial absorbers. <i>Physical Review B</i> , 2018 , 97,	3.3	41
41	Terahertz investigation of bound states in the continuum of metallic metasurfaces. <i>Optica</i> , 2020 , 7, 1548.6	6	38
40	Analysis of the thickness dependence of metamaterial absorbers at terahertz frequencies. <i>Optics Express</i> , 2018 , 26, 2242-2251	3.3	34
39	Terahertz metamaterial perfect absorber with continuously tunable air spacer layer. <i>Applied Physics Letters</i> , 2018 , 113, 061113	3.4	31
38	A survey of theoretical models for terahertz electromagnetic metamaterial absorbers. <i>Sensors and Actuators A: Physical</i> , 2019 , 287, 21-28	3.9	29
37	Terahertz-Driven Luminescence and Colossal Stark Effect in CdSe-CdS Colloidal Quantum Dots. <i>Nano Letters</i> , 2017 , 17, 5375-5380	11.5	28
36	Integrating microsystems with metamaterials towards metadevices. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 5	7.7	26
35	Boosting magnetic resonance imaging signal-to-noise ratio using magnetic metamaterials. <i>Communications Physics</i> , 2019 , 2,	5.4	25

34	Intelligent Metamaterials Based on Nonlinearity for Magnetic Resonance Imaging. <i>Advanced Materials</i> , 2019 , 31, e1905461	24	18
33	Terahertz radiation-induced sub-cycle field electron emission across a split-gap dipole antenna. <i>Applied Physics Letters</i> , 2015 , 107, 231101	3.4	17
32	Terahertz Dispersion Characteristics of Super-aligned Multi-walled Carbon Nanotubes and Enhanced Transmission through Subwavelength Apertures. <i>Scientific Reports</i> , 2018 , 8, 2087	4.9	15
31	Terahertz saturable absorption in superconducting metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 2649	1.7	15
30	An air-spaced terahertz metamaterial perfect absorber. <i>Sensors and Actuators A: Physical</i> , 2018 , 280, 303-308	3.9	14
29	Photo-induced terahertz near-field dynamics of graphene/InAs heterostructures. <i>Optics Express</i> , 2019 , 27, 13611-13623	3.3	14
28	Real-time tunable phase response and group delay in broadside coupled split-ring resonators. <i>Physical Review B</i> , 2019 , 99,	3.3	11
27	Broadband extraordinary terahertz transmission through super-aligned carbon nanotubes film. <i>Optics Express</i> , 2016 , 24, 15730-41	3.3	11
26	Diatom Frustule-Inspired Metamaterial Absorbers: The Effect of Hierarchical Pattern Arrays. <i>Advanced Functional Materials</i> , 2019 , 29, 1809029	15.6	11
25	Implementing infrared metamaterial perfect absorbers using dispersive dielectric spacers. <i>Optics Express</i> , 2019 , 27, 1727-1739	3.3	9
24	Polarization insensitive, metamaterial absorber-enhanced long-wave infrared detector. <i>Optics Express</i> , 2020 , 28, 28843-28857	3.3	9
23	Plasmonic heating induced by Au nanoparticles for quasi-ballistic thermal transport in multi-walled carbon nanotubes. <i>Nanoscale</i> , 2019 , 11, 7572-7581	7.7	6
22	Enabling a Microfluidic RFID Readout System via Miniaturization and Integration. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 395-403	2.5	6
21	Strong Metasurface-Josephson Plasma Resonance Coupling in Superconducting $\text{La}_2\text{Sr}_x\text{CuO}_4$. <i>Advanced Optical Materials</i> , 2019 , 7, 1900712	8.1	5
20	Silica Nanowire Growth on Coscinodiscus Species Diatom Frustules via Vapor-Liquid-Solid Process. <i>Small</i> , 2018 , 14, e1801822	11	5
19	Broadband Terahertz Silicon Membrane Metasurface Absorber. <i>ACS Photonics</i> ,	6.3	5
18	Ultrathin Terahertz Triple-Band Metamaterial Absorbers: Consideration of Interlayer Coupling. <i>Physical Review Applied</i> , 2020 , 14,	4.3	4
17	Broadband electrically tunable VO ₂ -Metamaterial terahertz switch with suppressed reflection. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 2782-2790	1.2	4

16	Terahertz-Driven Stark Spectroscopy of CdSe and CdSe-CdS Core-Shell Quantum Dots. <i>Nano Letters</i> , 2019 , 19, 8125-8131	11.5	4
15	Research on Laser Trimming of Silicon MEMS Vibratory Gyroscopes. <i>Integrated Ferroelectrics</i> , 2011 , 129, 37-44	0.8	4
14	On-demand terahertz surface wave generation with MEMS-based metasurface. <i>Optica</i> ,	8.6	4
13	Microfluidic channel-based wireless charging and communication platform for microsensors with miniaturized onboard antenna. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 124002	2	4
12	Glass fracture by focusing of laser-generated nanosecond surface acoustic waves. <i>Scripta Materialia</i> , 2019 , 158, 42-45	5.6	4
11	Metamaterials: Diatom Frustule-Inspired Metamaterial Absorbers: The Effect of Hierarchical Pattern Arrays (Adv. Funct. Mater. 22/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970151	15.6	3
10	Nonreciprocal Magnetic Coupling Using Nonlinear Meta-Atoms. <i>Advanced Science</i> , 2020 , 7, 2001443	13.6	3
9	A Magnetically Coupled Communication and Charging Platform for Microsensors. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 1099-1109	2.5	2
8	Optically Tunable All-Dielectric Broadband Terahertz Metamaterial Perfect Absorber 2019 ,		1
7	Wirelessly powered micro-tracer enabled by miniaturized antenna and microfluidic channel. <i>Journal of Physics: Conference Series</i> , 2015 , 660, 012038	0.3	1
6	Absorption Mode Splitting of Terahertz Metamaterial Mediated by Coupling of Spoof Surface Plasmon Polariton. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 1-1	3.4	1
5	Metamaterial-enhanced near-field readout platform for passive microsensor tags.. <i>Microsystems and Nanoengineering</i> , 2022 , 8, 28	7.7	1
4	Auxetics-Inspired Tunable Metamaterials for Magnetic Resonance Imaging. <i>Advanced Materials</i> , 2021 , e2109032	24	1
3	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial. <i>Advanced Optical Materials</i> , 2021 , 9, 2108215	8.1	0
2	Auxetics-Inspired Tunable Metamaterials for Magnetic Resonance Imaging (Adv. Mater. 6/2022). <i>Advanced Materials</i> , 2022 , 34, 2270049	24	
1	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial (Advanced Optical Materials 22/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170091	8.1	