

Bumki Min

List of Publications by Year in descending order

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45
papers

2,514
citations

394286

19
h-index

477173

29
g-index

45
all docs

45
docs citations

45
times ranked

3095
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching terahertz waves with gate-controlled active graphene metamaterials. Nature Materials, 2012, 11, 936-941.	13.3	777
2	A terahertz metamaterial with unnaturally high refractive index. Nature, 2011, 470, 369-373.	13.7	551
3	Electrically Tunable Slow Light Using Graphene Metamaterials. ACS Photonics, 2018, 5, 1800-1807.	3.2	187
4	Electrical access to critical coupling of circularly polarized waves in graphene chiral metamaterials. Science Advances, 2017, 3, e1701377.	4.7	113
5	Amplitude Modulation of Anomalously Refracted Terahertz Waves with Gated Graphene Metasurfaces. Advanced Optical Materials, 2018, 6, 1700507.	3.6	100
6	Graphene ferroelectric metadevices for nonvolatile memory and reconfigurable logic-gate operations. Nature Communications, 2016, 7, 10429.	5.8	89
7	Linear frequency conversion via sudden merging of meta-atoms in time-variant metasurfaces. Nature Photonics, 2018, 12, 765-773.	15.6	88
8	Reversibly Stretchable and Tunable Terahertz Metamaterials with Wrinkled Layouts. Advanced Materials, 2012, 24, 3491-3497.	11.1	87
9	Metamaterials for Enhanced Optical Responses and their Application to Active Control of Terahertz Waves. Advanced Materials, 2020, 32, e2000250.	11.1	55
10	Observation of an exceptional point in a non-Hermitian metasurface. Nanophotonics, 2020, 9, 1031-1039.	2.9	55
11	Nondispersive optical activity of meshed helical metamaterials. Nature Communications, 2014, 5, 5435.	5.8	49
12	Designing whispering gallery modes via transformation optics. Nature Photonics, 2016, 10, 647-652.	15.6	47
13	Spin Hall Effect of Light with Near-Unity Efficiency in the Microwave. Laser and Photonics Reviews, 2021, 15, 2000393.	4.4	39
14	Broadband Modulation of Terahertz Waves With Non-Resonant Graphene Meta-Devices. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 764-771.	2.0	36
15	Heterogeneously Assembled Metamaterials and Metadevices via 3D Modular Transfer Printing. Scientific Reports, 2016, 6, 27621.	1.6	35
16	A Narrow-Linewidth On-Chip Toroid Raman Laser. IEEE Journal of Quantum Electronics, 2011, 47, 320-326.	1.0	34
17	Optical Activity Enhanced by Strong Inter-molecular Coupling in Planar Chiral Metamaterials. Scientific Reports, 2014, 4, 5864.	1.6	33
18	THz near-field spectral encoding imaging using a rainbow metasurface. Scientific Reports, 2015, 5, 14403.	1.6	21

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19	Spatiotemporal plane wave expansion method for arbitrary space-time periodic photonic media. <i>Optics Letters</i> , 2021, 46, 484.	1.7	21
20	Rotationally reconfigurable metamaterials based on moiré phenomenon. <i>Optics Express</i> , 2015, 23, 17443.	1.7	16
21	Photoinduced Nonlinear Mixing of Terahertz Dipole Resonances in Graphene Metadevices. <i>Advanced Materials</i> , 2016, 28, 1495-1500.	11.1	13
22	Bulk Metamaterials Exhibiting Chemically Tunable Hyperbolic Responses. <i>Journal of the American Chemical Society</i> , 2021, 143, 20725-20734.	6.6	13
23	Electrically Controllable Terahertz Second-Harmonic Generation in GaAs. <i>Advanced Optical Materials</i> , 2020, 8, 2000359.	3.6	11
24	Parametric oscillation of electromagnetic waves in momentum band gaps of a spatiotemporal crystal. <i>Photonics Research</i> , 2021, 9, 142.	3.4	11
25	Control of terahertz nonlinear transmission with electrically gated graphene metadevices. <i>Scientific Reports</i> , 2017, 7, 42833.	1.6	10
26	A General Recipe for Nondispersive Optical Activity in Bilayer Chiral Metamaterials. <i>Advanced Optical Materials</i> , 2019, 7, 1801729.	3.6	7
27	Resonance-enhanced spectral funneling in Fabry-Perot resonators with a temporal boundary mirror. <i>Nanophotonics</i> , 2022, 11, 2045-2055.	2.9	7
28	High frequency carbon nanomechanical resonators embedded with carbon nanotube stiffening layers. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	4
29	Metamaterials: Reversibly Stretchable and Tunable Terahertz Metamaterials with Wrinkled Layouts (<i>Adv. Mater.</i> 26/2012). <i>Advanced Materials</i> , 2012, 24, 3438-3438.	11.1	2
30	THz near-field spectral encoding imaging using a rainbow metasurface. , 2015, , .		2
31	Chiral interactions of light in complex potentials. , 2015, , .		1
32	High-Q/small-V on-chip plasmonic cavities and their applications. , 2009, , .		0
33	1-D nanobeam resonators and lasers. , 2010, , .		0
34	Gate-controlled active graphene metamaterials at terahertz frequencies. , 2012, , .		0
35	Ultrafast refractive index control of terahertz graphene metamaterials. , 2013, , .		0
36	Ultrafast refractive index control of THz graphene metamaterials. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Nanolithography using micro-scale mask enabled by hyperbolic metamaterial. , 2015, , .		0
38	Restoring whispering gallery modes with transformation optics. , 2015, , .		0
39	Photoinduced nonlinear mixing of terahertz dipole resonances in graphene metadvice. , 2015, , .		0
40	InGaAsP nanobeam light emitter integrated with Si waveguide via transfer printing. , 2015, , .		0
41	Designing whispering gallery modes via transformation optics. , 2015, , .		0
42	A printed nanobeam laser on silicon. , 2015, , .		0
43	Designing whispering gallery modes via transformation optics. , 2016, , .		0
44	Electrical switching between terahertz second and third harmonic generation in photo-doped GaAs. , 2018, , .		0
45	Partially Spatial Coherent Thermal Emitter Based on an Epsilon-and-mu-near-zero Metamaterial. Journal of the Korean Physical Society, 2020, 76, 889-894.	0.3	0