Bumki Min

List of Publications by Year in descending order

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45 papers	2,514 citations	394421 19 h-index	477307 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.	27.5	777
2	A terahertz metamaterial with unnaturally high refractive index. Nature, 2011, 470, 369-373.	27.8	551
3	Electrically Tunable Slow Light Using Graphene Metamaterials. ACS Photonics, 2018, 5, 1800-1807.	6.6	187
4	Electrical access to critical coupling of circularly polarized waves in graphene chiral metamaterials. Science Advances, 2017, 3, e1701377.	10.3	113
5	Amplitude Modulation of Anomalously Refracted Terahertz Waves with Gatedâ€Graphene Metasurfaces. Advanced Optical Materials, 2018, 6, 1700507.	7.3	100
6	Grapheneâ€“ferroelectric metadevices for nonvolatile memory and reconfigurable logic-gate operations. Nature Communications, 2016, 7, 10429.	12.8	89
7	Linear frequency conversion via sudden merging of meta-atoms in time-variant metasurfaces. Nature Photonics, 2018, 12, 765-773.	31.4	88
8	Reversibly Stretchable and Tunable Terahertz Metamaterials with Wrinkled Layouts. Advanced Materials, 2012, 24, 3491-3497.	21.0	87
9	Metamaterials for Enhanced Optical Responses and their Application to Active Control of Terahertz Waves. Advanced Materials, 2020, 32, e2000250.	21.0	55
10	Observation of an exceptional point in a non-Hermitian metasurface. Nanophotonics, 2020, 9, 1031-1039.	6.0	55
11	Nondispersive optical activity of meshed helical metamaterials. Nature Communications, 2014, 5, 5435.	12.8	49
12	Designing whispering gallery modes via transformation optics. Nature Photonics, 2016, 10, 647-652.	31.4	47
13	Spin Hall Effect of Light with Nearâ€Unity Efficiency in the Microwave. Laser and Photonics Reviews, 2021, 15, 2000393.	8.7	39
14	Broadband Modulation of Terahertz Waves With Non-Resonant Graphene Meta-Devices. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 764-771.	3.1	36
15	Heterogeneously Assembled Metamaterials and Metadevices via 3D Modular Transfer Printing. Scientific Reports, 2016, 6, 27621.	3.3	35
16	A Narrow-Linewidth On-Chip Toroid Raman Laser. IEEE Journal of Quantum Electronics, 2011, 47, 320-326.	1.9	34
17	Optical Activity Enhanced by Strong Inter-molecular Coupling in Planar Chiral Metamaterials. Scientific Reports, 2014, 4, 5864.	3.3	33
18	THz near-field spectral encoding imaging using a rainbow metasurface. Scientific Reports, 2015, 5, 14403.	3.3	21

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19	Spatiotemporal plane wave expansion method for arbitrary spaceâ€“time periodic photonic media. Optics Letters, 2021, 46, 484.	3.3	21
20	Rotationally reconfigurable metamaterials based on moirÃ© phenomenon. Optics Express, 2015, 23, 17443.	3.4	16
21	Photoinduced Nonlinear Mixing of Terahertz Dipole Resonances in Graphene Metadevices. Advanced Materials, 2016, 28, 1495-1500.	21.0	13
22	Bulk Metamaterials Exhibiting Chemically Tunable Hyperbolic Responses. Journal of the American Chemical Society, 2021, 143, 20725-20734.	13.7	13
23	Electrically Controllable Terahertz Secondâ€Harmonic Generation in GaAs. Advanced Optical Materials, 2020, 8, 2000359.	7.3	11
24	Parametric oscillation of electromagnetic waves in momentum band gaps of a spatiotemporal crystal. Photonics Research, 2021, 9, 142.	7.0	11
25	Control of terahertz nonlinear transmission with electrically gated graphene metadevices. Scientific Reports, 2017, 7, 42833.	3.3	10
26	A General Recipe for Nondispersive Optical Activity in Bilayer Chiral Metamaterials. Advanced Optical Materials, 2019, 7, 1801729.	7.3	7
27	Resonance-enhanced spectral funneling in Fabryâ€“Perot resonators with a temporal boundaryÂmirror. Nanophotonics, 2022, 11, 2045-2055.	6.0	7
28	High frequency carbon nanomechanical resonators embedded with carbon nanotube stiffening layers. Applied Physics Letters, 2010, 97, .	3.3	4
29	Metamaterials: Reversibly Stretchable and Tunable Terahertz Metamaterials with Wrinkled Layouts (Adv. Mater. 26/2012). Advanced Materials, 2012, 24, 3438-3438.	21.0	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 metadevice. , 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.	0.7	0