

Mingkai Liu

List of Publications by Year in descending order

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49
papers

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citations

361413

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times ranked

2856
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-Only Tuning of Extreme Huygens Metasurfaces Enabled by Optical Anisotropy. <i>Advanced Optical Materials</i> , 2022, 10, 2101893.	7.3	17
2	Magnetic tuning of liquid crystal dielectric metasurfaces. <i>Nanophotonics</i> , 2022, 11, 3895-3900.	6.0	8
3	Topology-empowered membrane devices for terahertz photonics. <i>Advanced Photonics</i> , 2022, 4, .	11.8	13
4	Phase Tuning of Huygens Metasurfaces by Optical Anisotropy. , 2021, , .		0
5	Polarization-Sensitive Dielectric Membrane Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 2000555.	7.3	24
6	Achromatic Huygens™ Metalenses with Deeply Subwavelength Thickness. <i>Advanced Optical Materials</i> , 2020, 8, 2000754.	7.3	26
7	Dual-Region Resonant Meander Metamaterial. <i>Advanced Optical Materials</i> , 2020, 8, 1901658.	7.3	6
8	Deeply Subwavelength Metasurface Resonators for Terahertz Wavefront Manipulation. <i>Advanced Optical Materials</i> , 2019, 7, 1900736.	7.3	25
9	Angle-multiplexed all-dielectric metasurfaces for broadband molecular fingerprint retrieval. <i>Science Advances</i> , 2019, 5, eaaw2871.	10.3	294
10	Layer-by-Layer Assembly of Three-Dimensional Optical Functional Nanostructures. <i>ACS Nano</i> , 2019, 13, 5583-5590.	14.6	21
11	Ultrasensitive hyperspectral imaging and biodetection enabled by dielectric metasurfaces. <i>Nature Photonics</i> , 2019, 13, 390-396.	31.4	546
12	All-Dielectric High-Q Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , .		0
13	Time-varying Metasurfaces for Broadband Spectral Camouflage. <i>Physical Review Applied</i> , 2019, 12, .	3.8	37
14	All-dielectric Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , .		1
15	Nanophotonic Biosensors: from Plasmonic to Dielectric Metasurfaces. , 2019, , .		1
16	Time-varying Huygens™ Metadevices for Parametric Wave Control. , 2019, , .		0
17	Extreme All-dielectric Huygens™ Metasurfaces based on Quasi-bound States in the Continuum. , 2019, , .		0
18	Ultrathin tunable terahertz absorbers based on electrostatically actuated metamaterial. , 2019, , .		0

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19	Asymmetric Metasurfaces with High- Q Resonances Governed by Bound States in the Continuum. Physical Review Letters, 2018, 121, 193903.	7.8	983
20	Time-varying metasurfaces for arbitrary parametric wave control. , 2018, , .		0
21	Extreme Huygens TM Metasurfaces Based on Quasi-Bound States in the Continuum. Nano Letters, 2018, 18, 8062-8069.	9.1	97
22	Huygens TM Metadevices for Parametric Waves. Physical Review X, 2018, 8, .	8.9	79
23	Valley-selective directional emission from a transition-metal dichalcogenide monolayer mediated by a plasmonic nanoantenna. Beilstein Journal of Nanotechnology, 2018, 9, 780-788.	2.8	25
24	Imaging-based molecular barcoding with pixelated dielectric metasurfaces. Science, 2018, 360, 1105-1109.	12.6	726
25	Polarization [∞] induced Chirality in Metamaterials via Optomechanical Interaction. Advanced Optical Materials, 2017, 5, 1600760.	7.3	36
26	Ultrathin tunable terahertz absorber based on MEMS-driven metamaterial. Microsystems and Nanoengineering, 2017, 3, 17033.	7.0	84
27	Strong Broadband Terahertz Optical Activity through Control of the Blaschke Phase with Chiral Metasurfaces. Physical Review Applied, 2017, 8, .	3.8	16
28	Fast Tunable Terahertz Absorber Based on a MEMS-driven Metamaterial. , 2017, , .		1
29	Valley-locked directionality from a monolayer transition metal dichalcogenide enabled by plasmonic nanoantenna. , 2017, , .		0
30	Mimicking Liquid Crystals with Metamaterials. , 2016, , .		0
31	Tunable Meta [∞] Liquid Crystals. Advanced Materials, 2016, 28, 1553-1558.	21.0	37
32	Electrically tunable terahertz metamaterials with embedded large-area transparent thin-film transistor arrays. Scientific Reports, 2016, 6, 23486.	3.3	21
33	Reconfigurable THz and microwave metamaterials based on π -conjugated polymers. , 2016, , .		0
34	Coupled Electromagnetic and Elastic Dynamics in Metamaterials. Springer Series in Materials Science, 2015, , 59-87.	0.6	0
35	A tunable submicro-optofluidic polymer filter based on guided-mode resonance. Nanoscale, 2015, 7, 3429-3434.	5.6	39
36	Electromagnetic tuning of resonant transmission in magnetoelastic metamaterials. Applied Physics Letters, 2014, 104, .	3.3	17

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37	Spontaneous chiral symmetry breaking in metamaterials. Nature Communications, 2014, 5, 4441.	12.8	64
38	Nonlinear response via intrinsic rotation in metamaterials. Physical Review B, 2013, 87, .	3.2	36
39	Twists and shifts make nonlinear metamaterials. , 2013, , .		0
40	Optical activity and coupling in twisted dimer meta-atoms. Applied Physics Letters, 2012, 100, 111114.	3.3	38
41	Chiral meta-atoms rotated by light. Applied Physics Letters, 2012, 101, 031105.	3.3	10
42	Mode Evolution and Transmission Suppression in a Perforated Ultrathin Metallic Film with a Triangular Array of Holes. Plasmonics, 2012, 7, 397-410.	3.4	16
43	Fabrication of non-planar silver nano-arc-gap arrays. Nanoscale, 2012, 4, 2255.	5.6	9
44	Extraordinary Transmission of Three-Dimensional Crescent-like Holes Arrays. Plasmonics, 2012, 7, 221-227.	3.4	15
45	High-Q photonic crystal slab nanocavity with an asymmetric nanohole in the center for QED. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 265.	2.1	5
46	All-optical switch based on photonic crystal microcavity with multi-resonant modes. Optik, 2010, 121, 1934-1936.	2.9	29
47	Image quality deterioration due to phase fluctuation in layered superlens. Optik, 2010, 121, 1966-1975.	2.9	3
48	Incident-angle-insensitive and polarization independent polarization rotator. Optics Express, 2010, 18, 11990.	3.4	14
49	Electrically tunable terahertz metamaterials with embedded large-area transparent thin-film transistor arrays. , 0, .		1