

Mingkai Liu

List of Publications by Year in descending order

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49
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361413

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all docs

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docs citations

50
times ranked

2856
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Metasurfaces with High- Q Resonances Governed by Bound States in the Continuum. <i>Physical Review Letters</i> , 2018, 121, 193903.	7.8	983
2	Imaging-based molecular barcoding with pixelated dielectric metasurfaces. <i>Science</i> , 2018, 360, 1105-1109.	12.6	726
3	Ultrasensitive hyperspectral imaging and biodetection enabled by dielectric metasurfaces. <i>Nature Photonics</i> , 2019, 13, 390-396.	31.4	546
4	Angle-multiplexed all-dielectric metasurfaces for broadband molecular fingerprint retrieval. <i>Science Advances</i> , 2019, 5, eaaw2871.	10.3	294
5	Extreme Huygens TM Metasurfaces Based on Quasi-Bound States in the Continuum. <i>Nano Letters</i> , 2018, 18, 8062-8069.	9.1	97
6	Ultrathin tunable terahertz absorber based on MEMS-driven metamaterial. <i>Microsystems and Nanoengineering</i> , 2017, 3, 17033.	7.0	84
7	Huygens TM Metadevices for Parametric Waves. <i>Physical Review X</i> , 2018, 8, .	8.9	79
8	Spontaneous chiral symmetry breaking in metamaterials. <i>Nature Communications</i> , 2014, 5, 4441.	12.8	64
9	A tunable submicro-optofluidic polymer filter based on guided-mode resonance. <i>Nanoscale</i> , 2015, 7, 3429-3434.	5.6	39
10	Optical activity and coupling in twisted dimer meta-atoms. <i>Applied Physics Letters</i> , 2012, 100, 111114.	3.3	38
11	Tunable Meta-Liquid Crystals. <i>Advanced Materials</i> , 2016, 28, 1553-1558.	21.0	37
12	Time-varying Metasurfaces for Broadband Spectral Camouflage. <i>Physical Review Applied</i> , 2019, 12, .	3.8	37
13	Nonlinear response via intrinsic rotation in metamaterials. <i>Physical Review B</i> , 2013, 87, .	3.2	36
14	Polarization-Induced Chirality in Metamaterials via Optomechanical Interaction. <i>Advanced Optical Materials</i> , 2017, 5, 1600760.	7.3	36
15	All-optical switch based on photonic crystal microcavity with multi-resonant modes. <i>Optik</i> , 2010, 121, 1934-1936.	2.9	29
16	Achromatic Huygens TM Metalenses with Deeply Subwavelength Thickness. <i>Advanced Optical Materials</i> , 2020, 8, 2000754.	7.3	26
17	Valley-selective directional emission from a transition-metal dichalcogenide monolayer mediated by a plasmonic nanoantenna. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 780-788.	2.8	25
18	Deeply Subwavelength Metasurface Resonators for Terahertz Wavefront Manipulation. <i>Advanced Optical Materials</i> , 2019, 7, 1900736.	7.3	25

#	ARTICLE	IF	CITATIONS
19	Polarization-sensitive Dielectric Membrane Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 2000555.	7.3	24
20	Electrically tunable terahertz metamaterials with embedded large-area transparent thin-film transistor arrays. <i>Scientific Reports</i> , 2016, 6, 23486.	3.3	21
21	Layer-by-Layer Assembly of Three-Dimensional Optical Functional Nanostructures. <i>ACS Nano</i> , 2019, 13, 5583-5590.	14.6	21
22	Electromagnetic tuning of resonant transmission in magnetoelastic metamaterials. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	17
23	Phase-Only Tuning of Extreme Huygens Metasurfaces Enabled by Optical Anisotropy. <i>Advanced Optical Materials</i> , 2022, 10, 2101893.	7.3	17
24	Mode Evolution and Transmission Suppression in a Perforated Ultrathin Metallic Film with a Triangular Array of Holes. <i>Plasmonics</i> , 2012, 7, 397-410.	3.4	16
25	Strong Broadband Terahertz Optical Activity through Control of the Blaschke Phase with Chiral Metasurfaces. <i>Physical Review Applied</i> , 2017, 8, .	3.8	16
26	Extraordinary Transmission of Three-Dimensional Crescent-like Holes Arrays. <i>Plasmonics</i> , 2012, 7, 221-227.	3.4	15
27	Incident-angle-insensitive and polarization independent polarization rotator. <i>Optics Express</i> , 2010, 18, 11990.	3.4	14
28	Topology-empowered membrane devices for terahertz photonics. <i>Advanced Photonics</i> , 2022, 4, .	11.8	13
29	Chiral meta-atoms rotated by light. <i>Applied Physics Letters</i> , 2012, 101, 031105.	3.3	10
30	Fabrication of non-planar silver nano-arc-gap arrays. <i>Nanoscale</i> , 2012, 4, 2255.	5.6	9
31	Magnetic tuning of liquid crystal dielectric metasurfaces. <i>Nanophotonics</i> , 2022, 11, 3895-3900.	6.0	8
32	Dual-Region Resonant Meander Metamaterial. <i>Advanced Optical Materials</i> , 2020, 8, 1901658.	7.3	6
33	High-Q photonic crystal slab nanocavity with an asymmetric nanohole in the center for QED. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 265.	2.1	5
34	Image quality deterioration due to phase fluctuation in layered superlens. <i>Optik</i> , 2010, 121, 1966-1975.	2.9	3
35	Fast Tunable Terahertz Absorber Based on a MEMS-driven Metamaterial. , 2017, , .		1
36	Electrically tunable terahertz metamaterials with embedded large-area transparent thin-film transistor arrays. , 0, .		1

#	ARTICLE	IF	CITATIONS
37	All-dielectric Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , .		1
38	Nanophotonic Biosensors: from Plasmonic to Dielectric Metasurfaces. , 2019, , .		1
39	Twists and shifts make nonlinear metamaterials. , 2013, , .		0
40	Coupled Electromagnetic and Elastic Dynamics in Metamaterials. Springer Series in Materials Science, 2015, , 59-87.	0.6	0
41	Mimicking Liquid Crystals with Metamaterials. , 2016, , .		0
42	Reconfigurable THz and microwave metamaterials based on Ñ-conjugated polymers. , 2016, , .		0
43	Time-varying metasurfaces for arbitrary parametric wave control. , 2018, , .		0
44	All-Dielectric High-Q Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , .		0
45	Phase Tuning of Huygens Metasurfaces by Optical Anisotropy. , 2021, , .		0
46	Valley-locked directionality from a monolayer transition metal dichalcogenide enabled by plasmonic nanoantenna. , 2017, , .		0
47	Time-varying Huygens™ Metadevices for Parametric Wave Control. , 2019, , .		0
48	Extreme All-dielectric Huygens™ Metasurfaces based on Quasi-bound States in the Continuum. , 2019, , .		0
49	Ultrathin tunable terahertz absorbers based on electrostatically actuated metamaterial. , 2019, , .		0