

Jierong Cheng

List of Publications by Year in descending order

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31
papers

606
citations

687363

13
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave manipulation with designer dielectric metasurfaces. <i>Optics Letters</i> , 2014, 39, 6285.	3.3	135
2	Optimization-based Dielectric Metasurfaces for Angle-Selective Multifunctional Beam Deflection. <i>Scientific Reports</i> , 2017, 7, 12228.	3.3	64
3	Recent Progress on Graphene-Functionalized Metasurfaces for Tunable Phase and Polarization Control. <i>Nanomaterials</i> , 2019, 9, 398.	4.1	55
4	All-dielectric ultrathin conformal metasurfaces: lensing and cloaking applications at 532 nm wavelength. <i>Scientific Reports</i> , 2016, 6, 38440.	3.3	51
5	Surface Plasmon Engineering in Graphene Functionalized with Organic Molecules: A Multiscale Theoretical Investigation. <i>Nano Letters</i> , 2014, 14, 50-56.	9.1	37
6	Active Terahertz Shielding and Absorption Based on Graphene Foam Modulated by Electric and Optical Field Excitation. <i>Advanced Optical Materials</i> , 2019, 7, 1900555.	7.3	33
7	Ultra-Narrow Band Mid-Infrared Perfect Absorber Based on Hybrid Dielectric Metasurface. <i>Nanomaterials</i> , 2019, 9, 1350.	4.1	30
8	Magnetically Induced Terahertz Birefringence and Chirality Manipulation in Transverse-Magnetized Metasurface. <i>Advanced Optical Materials</i> , 2021, 9, 2101097.	7.3	26
9	High-Efficiency Terahertz Nonreciprocal One-Way Transmission and Active Asymmetric Chiral Manipulation Based on Magnetoplasmon/Dielectric Metasurface. <i>Advanced Optical Materials</i> , 2021, 9, 2002216.	7.3	22
10	Active terahertz spin state and optical chirality in liquid crystal chiral metasurface. <i>Physical Review Materials</i> , 2021, 5, .	2.4	20
11	Efficient Wide-Band Large-Angle Refraction and Splitting of a Terahertz Beam by Low-Index 3D-Printed Bilayer Metagratings. <i>Physical Review Applied</i> , 2020, 14, .	3.8	19
12	Low-index second-order metagratings for large-angle anomalous reflection. <i>Optics Letters</i> , 2019, 44, 939.	3.3	17
13	Nonreciprocal terahertz beam steering based on magneto-optic metagratings. <i>Scientific Reports</i> , 2019, 9, 20210.	3.3	16
14	Real-time two-dimensional beam steering with gate-tunable materials: a theoretical investigation. <i>Applied Optics</i> , 2016, 55, 6137.	2.1	10
15	Active Terahertz Anisotropy and Dispersion Engineering Based on Dual-frequency Liquid Crystal and Dielectric Metasurface. <i>Journal of Lightwave Technology</i> , 2020, , 1-1.	4.6	9
16	Terahertz dual-band polarization control and wavefront shaping over freestanding dielectric binary gratings with high efficiency. <i>Optics and Lasers in Engineering</i> , 2021, 143, 106636.	3.8	9
17	Graphene-based transmissive terahertz metalens with dynamic and fixed focusing. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 025105.	2.8	8
18	Extremely large-angle beam deflection based on low-index sparse dielectric metagratings. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 245101.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Dielectric metasurfaces in transmission and reflection modes approaching and beyond bandwidth of conventional blazed grating. <i>Optics Express</i> , 2018, 26, 12547.	3.4	6
20	Terahertz Metagrating Accordion for Dynamic Beam Steering. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	6
21	An integral equation based domain decomposition method for solving large-size substrate-supported aperiodic plasmonic array platforms. <i>MRS Communications</i> , 2016, 6, 105-115.	1.8	5
22	Large enhancement of third-order nonlinear effects with a resonant all-dielectric metasurface. <i>AIP Advances</i> , 2016, 6, .	1.3	5
23	An Efficient Bi-Functional Metagrating via Asymmetric Diffraction of Terahertz Beams. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 441-444.	2.5	5
24	Graphene metalenses with diverse electrical tunabilities at different terahertz frequencies. <i>Optical Engineering</i> , 2020, 59, .	1.0	4
25	Terahertz tight-focused Bessel beam generation and point-to-point focusing based on nonlocal diffraction engineering. <i>Optics Letters</i> , 2022, 47, 2879.	3.3	4
26	Enhanced Terahertz Amplification Based on Photo-Excited Graphene-Dielectric Hybrid Metasurface. <i>Nanomaterials</i> , 2020, 10, 2448.	4.1	2
27	3D high-NA metalenses enabled by efficient 2D optimization. <i>Optics Communications</i> , 2022, 520, 128448.	2.1	1
28	Graphene metasurfaces engineered with organic molecules. , 2014, , .		0
29	An Efficient Bi-functional Metagrating via Asymmetric Diffraction of Terahertz Beams. , 2021, , .		0
30	Neural network aided diffractive metagratings for efficient beam splitting at terahertz frequencies. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 155106.	2.8	0
31	Low-Index 3D-Printable Metagratings for Extreme Beam-Bending at Sub Terahertz. , 2020, , .		0