

Kun Huang

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,642
citations

186265

28
h-index

197818

49
g-index

58
all docs

58
docs citations

58
times ranked

2772
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Key Distribution Over a Channel with Scattering. <i>Physical Review Applied</i> , 2022, 17, .	3.8	5
2	Ultracompact meta-imagers for arbitrary all-optical convolution. <i>Light: Science and Applications</i> , 2022, 11, 62.	16.6	50
3	What limits limits?. <i>National Science Review</i> , 2021, 8, nwa210.	9.5	2
4	Chirality and Antiferromagnetism in Optical Metasurfaces. <i>Topics in Applied Physics</i> , 2021, , 75-103.	0.8	1
5	A vacuum ultraviolet laser with a submicrometer spot for spatially resolved photoemission spectroscopy. <i>Light: Science and Applications</i> , 2021, 10, 22.	16.6	22
6	Broadband generation of rational-order optical vortices using a bilateral meta-grating. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 024002.	2.2	0
7	Generalized perfect optical vortices along arbitrary trajectories. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 214001.	2.8	10
8	High-efficiency holographic metacoder for optical masquerade. <i>Optics Letters</i> , 2021, 46, 1462.	3.3	8
9	Optimization-free customization of optical tightly focused fields: uniform needles and hotspot chains. <i>Applied Optics</i> , 2021, 60, 3081.	1.8	8
10	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. <i>Nanophotonics</i> , 2021, 10, 2283-2308.	6.0	47
11	Gigantic vortical differential scattering as a monochromatic probe for multiscale chiral structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	62
12	Exciton-Enabled Meta-Optics in Two-Dimensional Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2020, 20, 7964-7972.	9.1	19
13	Bio-inspired Photonic Masquerade with Perturbative Metasurfaces. <i>ACS Nano</i> , 2020, 14, 7529-7537.	14.6	9
14	Ultrasonic super-oscillation wave-packets with an acoustic meta-lens. <i>Nature Communications</i> , 2019, 10, 3411.	12.8	81
15	Polarization-enabled tunable focusing by visible-light metalenses with geometric and propagation phase. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 115102.	2.2	7
16	Optical orbital-angular-momentum-multiplexed data transmission under high scattering. <i>Light: Science and Applications</i> , 2019, 8, 27.	16.6	169
17	Ultraviolet Metasurfaces of $\sim 80\%$ Efficiency with Antiferromagnetic Resonances for Optical Vectorial Anti-Counterfeiting. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800289.	8.7	63
18	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. <i>Nano Letters</i> , 2019, 19, 1158-1165.	9.1	94

#	ARTICLE	IF	CITATIONS
19	Resonance-free ultraviolet metaoptics via photon nanosieves. <i>Optics Letters</i> , 2019, 44, 3418.	3.3	6
20	Planar Diffractive Lenses: Fundamentals, Functionalities, and Applications. <i>Advanced Materials</i> , 2018, 30, e1704556.	21.0	105
21	Spiniform phase-encoded metagratings entangling arbitrary rational-order orbital angular momentum. <i>Light: Science and Applications</i> , 2018, 7, 17156-17156.	16.6	97
22	Photonâ€nanosieve for ultrabroadband and largeâ€angleâ€ofâ€view holograms. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700025.	8.7	43
23	Recent advances in the spin Hall effect of light. <i>Reports on Progress in Physics</i> , 2017, 80, 066401.	20.1	360
24	A Supercritical Lens Optical Labelâ€Free Microscopy: Subâ€Diffraction Resolution and Ultraâ€Long Working Distance. <i>Advanced Materials</i> , 2017, 29, 1602721.	21.0	141
25	Broadband beam shaping using two cascaded diffractive optical elements with different sizes of effective phase region. , 2017, , .		0
26	Visibleâ€Frequency Metasurface for Structuring and Spatially Multiplexing Optical Vortices. <i>Advanced Materials</i> , 2016, 28, 2533-2539.	21.0	387
27	Evanescent vortex: Optical subwavelength spanner. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	20
28	Nano-sieve meta-holograms. , 2016, , .		0
29	Advances in Full Control of Electromagnetic Waves with Metasurfaces. <i>Advanced Optical Materials</i> , 2016, 4, 818-833.	7.3	306
30	Silicon multiâ€metaâ€holograms for the broadband visible light. <i>Laser and Photonics Reviews</i> , 2016, 10, 500-509.	8.7	181
31	Flat Helical Nanosieves. <i>Advanced Functional Materials</i> , 2016, 26, 5255-5262.	14.9	64
32	On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits. <i>Nanoscale</i> , 2016, 8, 2227-2233.	5.6	76
33	Broadband spinâ€controlled focusing via logarithmicâ€spiral nanoslits of varying width. <i>Laser and Photonics Reviews</i> , 2015, 9, 674-681.	8.7	17
34	Dynamic generation of Ince-Gaussian modes with a digital micromirror device. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	40
35	Digital generation and control of Hermiteâ€Gaussian modes with an amplitude digital micromirror device. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 125604.	2.2	20
36	Shaping a Subwavelength Needle with Ultra-long Focal Length by Focusing Azimuthally Polarized Light. <i>Scientific Reports</i> , 2015, 5, 9977.	3.3	151

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37	Ultra-high-capacity non-periodic photon sieves operating in visible light. Nature Communications, 2015, 6, 7059.	12.8	154
38	Multi-foci metalens for spin and orbital angular momentum interaction. Proceedings of SPIE, 2015, , .	0.8	0
39	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. Laser and Photonics Reviews, 2014, 8, 743-749.	8.7	19
40	Creation of vectorial bottle-hollow beam using radially or azimuthally polarized light. Optics Letters, 2014, 39, 630.	3.3	41
41	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. Advanced Optical Materials, 2014, 2, 1193-1198.	7.3	50
42	Optimization-free superoscillatory lens using phase and amplitude masks. Laser and Photonics Reviews, 2014, 8, 152-157.	8.7	149
43	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. Scientific Reports, 2014, 4, 6257.	3.3	81
44	Creation of a longitudinally polarized subwavelength hotspot with an ultra-thin planar lens: vectorial Rayleigh-Sommerfeld method. Laser Physics Letters, 2013, 10, 065004.	1.4	53
45	Enhance the resolution of photonic crystal negative refraction imaging by metal grating. Optics Letters, 2012, 37, 359.	3.3	15
46	Design of diffractive phase element for modulating the electric field at the out-of-focus plane in a lens system. Applied Optics, 2012, 51, 5149.	1.8	16
47	Photonic crystal with complex unit cell for large complete band gap. Optics Communications, 2012, 285, 3128-3132.	2.1	24
48	Subwavelength imaging by a graded-index photonic-crystal flat lens in a honeycomb lattice. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2171.	1.5	14
49	Vector-vortex Bessel-Gauss beams and their tightly focusing properties. Optics Letters, 2011, 36, 888.	3.3	127
50	Realization of a subwavelength focused spot without a longitudinal field component in a solid immersion lens-based system. Optics Letters, 2011, 36, 3536.	3.3	22
51	Anisotropic annular photonic crystal structure for large absolute band gap. Proceedings of SPIE, 2010, , .	0.8	0
52	Experimental generation of Laguerre-Gaussian beam using digital micromirror device. Applied Optics, 2010, 49, 1838.	2.1	49
53	Creation of large band gap with anisotropic annular photonic crystal slab structure. Optics Express, 2010, 18, 5221.	3.4	29
54	Design of DOE for generating a needle of a strong longitudinally polarized field. Optics Letters, 2010, 35, 965.	3.3	128

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55	Optical Magnetism-Induced Dual Anisotropy in Dielectric Nanoantennas. Advanced Optical Materials, 0, 2200303.	7.3	0