Kun Huang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6888948/publications.pdf

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	Visibleâ€Frequency Metasurface for Structuring and Spatially Multiplexing Optical Vortices. Advanced Materials, 2016, 28, 2533-2539.	21.0	387
2	Recent advances in the spin Hall effect of light. Reports on Progress in Physics, 2017, 80, 066401.	20.1	360
3	Advances in Full Control of Electromagnetic Waves with Metasurfaces. Advanced Optical Materials, 2016, 4, 818-833.	7.3	306
4	Silicon multiâ€metaâ€holograms for the broadband visible light. Laser and Photonics Reviews, 2016, 10, 500-509.	8.7	181
5	Optical orbital-angular-momentum-multiplexed data transmission under high scattering. Light: Science and Applications, 2019, 8, 27.	16.6	169
6	Ultrahigh-capacity non-periodic photon sieves operating in visible light. Nature Communications, 2015, 6, 7059.	12.8	154
7	Shaping a Subwavelength Needle with Ultra-long Focal Length by Focusing Azimuthally Polarized Light. Scientific Reports, 2015, 5, 9977.	3.3	151
8	Optimization-free superoscillatory lens using phase and amplitude masks. Laser and Photonics Reviews, 2014, 8, 152-157.	8.7	149
9	A Supercritical Lens Optical Labelâ€Free Microscopy: Subâ€Diffraction Resolution and Ultraâ€Long Working Distance. Advanced Materials, 2017, 29, 1602721.	21.0	141
10	Design of DOE for generating a needle of a strong longitudinally polarized field. Optics Letters, 2010, 35, 965.	3.3	128
11	Vector-vortex Besselâ€“Gauss beams and their tightly focusing properties. Optics Letters, 2011, 36, 888.	3.3	127
12	Planar Diffractive Lenses: Fundamentals, Functionalities, and Applications. Advanced Materials, 2018, 30, e1704556.	21.0	105
13	Spiniform phase-encoded metagratings entangling arbitrary rational-order orbital angular momentum. Light: Science and Applications, 2018, 7, 17156-17156.	16.6	97
14	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. Nano Letters, 2019, 19, 1158-1165.	9.1	94
15	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. Scientific Reports, 2014, 4, 6257.	3.3	81
16	Ultrasonic super-oscillation wave-packets with an acoustic meta-lens. Nature Communications, 2019, 10, 3411.	12.8	81
17	On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits. Nanoscale, 2016, 8, 2227-2233.	5.6	76
18	Flat Helical Nanosieves. Advanced Functional Materials, 2016, 26, 5255-5262.	14.9	64

#	Article	IF	Citations
19	Ultraviolet Metasurfaces of â‰ˆ80% Efficiency with Antiferromagnetic Resonances for Optical Vectorial Antiâ€Counterfeiting. Laser and Photonics Reviews, 2019, 13, 1800289.	8.7	63
20	Gigantic vortical differential scattering as a monochromatic probe for multiscale chiral structures. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	62
21	Creation of a longitudinally polarized subwavelength hotspot with an ultra-thin planar lens: vectorial Rayleighâ€“Sommerfeld method. Laser Physics Letters, 2013, 10, 065004.	1.4	53
22	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. Advanced Optical Materials, 2014, 2, 1193-1198.	7.3	50
23	Ultracompact meta-imagers for arbitrary all-optical convolution. Light: Science and Applications, 2022, 11, 62.	16.6	50
24	Experimental generation of Laguerre-Gaussian beam using digital micromirror device. Applied Optics, 2010, 49, 1838.	2.1	49
25	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. Nanophotonics, 2021, 10, 2283-2308.	6.0	47
26	Photonâ€nanosieve for ultrabroadband and largeâ€angleâ€ofâ€view holograms. Laser and Photonics Reviews, 2017, 11, 1700025.	8.7	43
27	Creation of vectorial bottle-hollow beam using radially or azimuthally polarized light. Optics Letters, 2014, 39, 630.	3.3	41
28	Dynamic generation of Ince-Gaussian modes with a digital micromirror device. Journal of Applied Physics, 2015, 117, .	2.5	40
29	Creation of large band gap with anisotropic annular photonic crystal slab structure. Optics Express, 2010, 18, 5221.	3.4	29
30	Photonic crystal with complex unit cell for large complete band gap. Optics Communications, 2012, 285, 3128-3132.	2.1	24
31	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
32	A vacuum ultraviolet laser with a submicrometer spot for spatially resolved photoemission spectroscopy. Light: Science and Applications, 2021, 10, 22.	16.6	22
33	Digital generation and control of Hermiteâ€“Gaussian modes with an amplitude digital micromirror device. Journal of Optics (United Kingdom), 2015, 17, 125604.	2.2	20
34	Evanescent vortex: Optical subwavelength spanner. Applied Physics Letters, 2016, 109, .	3.3	20
35	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. Laser and Photonics Reviews, 2014, 8, 743-749.	8.7	19
36	Exciton-Enabled Meta-Optics in Two-Dimensional Transition Metal Dichalcogenides. Nano Letters, 2020, 20, 7964-7972.	9.1	19

#	Article	IF	Citations
37	Broadband spinâ€controlled focusing via logarithmicâ€spiral nanoslits of varying width. Laser and Photonics Reviews, 2015, 9, 674-681.	8.7	17
38	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
39	Enhance the resolution of photonic crystal negative refraction imaging by metal grating. Optics Letters, 2012, 37, 359.	3.3	15
40	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
41	Generalized perfect optical vortices along arbitrary trajectories. Journal Physics D: Applied Physics, 2021, 54, 214001.	2.8	10
42	Bio-inspired Photonic Masquerade with Perturbative Metasurfaces. ACS Nano, 2020, 14, 7529-7537.	14.6	9
43	High-efficiency holographic metacoder for optical masquerade. Optics Letters, 2021, 46, 1462.	3.3	8
44	Optimization-free customization of optical tightly focused fields: uniform needles and hotspot chains. Applied Optics, 2021, 60, 3081.	1.8	8
45	Polarization-enabled tunable focusing by visible-light metalenses with geometric and propagation phase. Journal of Optics (United Kingdom), 2019, 21, 115102.	2.2	7
46	Resonance-free ultraviolet metaoptics via photon nanosieves. Optics Letters, 2019, 44, 3418.	3.3	6
47	Quantum Key Distribution Over a Channel with Scattering. Physical Review Applied, 2022, 17, .	3.8	5
48	What limits limits?. National Science Review, 2021, 8, nwaa210.	9.5	2
49	Chirality and Antiferromagnetism in Optical Metasurfaces. Topics in Applied Physics, 2021, , 75-103.	0.8	1
50	Anisotropic annular photonic crystal structure for large absolute band gap. Proceedings of SPIE, 2010, , .	0.8	0
51	Multi-foci metalens for spin and orbital angular momentum interaction. Proceedings of SPIE, 2015, , .	0.8	0
52	Nano-sieve meta-holograms. , 2016, , .		0
53	Broadband generation of rational-order optical vortices using a bilateral meta-grating. Journal of Optics (United Kingdom), 2021, 23, 024002.	2.2	0
54	Broadband beam shaping using two cascaded diffractive optical elements with different sizes of effective phase region. , 2017, , .		0

#	Article	IF	Citations
55	Optical Magnetismâ€Induced Dual Anisotropy in Dielectric Nanoantennas. Advanced Optical Materials, 0, , 2200303.	7.3	0