Hang Li

List of Publications by Year
in descending order

45 papers	1,824 citations	430874 18 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1446 citing authors

#	Article	IF	Citations
1	Electrically reconfigurable non-volatile metasurface using low-loss optical phase-change material. Nature Nanotechnology, 2021, 16, 661-666.	31.5	298
2	Reconfigurable all-dielectric metalens with diffraction-limited performance. Nature Communications, 2021, 12, 1225.	12.8	221
3	A Deep Learning Approach for Objective-Driven All-Dielectric Metasurface Design. ACS Photonics, 2019, 6, 3196-3207.	6.6	212
4	Ultra-thin high-efficiency mid-infrared transmissive Huygens meta-optics. Nature Communications, 2018, 9, 1481.	12.8	126
5	Single-Element Diffraction-Limited Fisheye Metalens. Nano Letters, 2020, 20, 7429-7437.	9.1	104
6	Multiwavelength Metasurfaces Based on Single‐Layer Dual‐Wavelength Meta‐Atoms: Toward Complete Phase and Amplitude Modulations at Two Wavelengths. Advanced Optical Materials, 2017, 5, 1700079.	7.3	103
7	Design for quality: reconfigurable flat optics based on active metasurfaces. Nanophotonics, 2020, 9, 3505-3534.	6.0	87
8	Multifunctional Metasurface Design with a Generative Adversarial Network. Advanced Optical Materials, 2021, 9, 2001433.	7.3	78
9	Multi‐Level Electro‐Thermal Switching of Optical Phase‐Change Materials Using Graphene. Advanced Photonics Research, 2021, 2, 2000034.	3.6	75
10	Deep learning modeling approach for metasurfaces with high degrees of freedom. Optics Express, 2020, 28, 31932.	3.4	73
11	High‐Efficiency Ultrathin Dual‐Wavelength Pancharatnam–Berry Metasurfaces with Complete Independent Phase Control. Advanced Optical Materials, 2019, 7, 1900594.	7.3	67
12	A Triple-Mode Bandpass Filter With Controllable Bandwidth Using QMSIW Cavity. IEEE Microwave and Wireless Components Letters, 2018, 28, 654-656.	3.2	39
13	Mutual Coupling Reduction of Closely E/H-Plane Coupled Antennas Through Metasurfaces. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1996-2000.	4.0	38
14	Deep Convolutional Neural Networks to Predict Mutual Coupling Effects in Metasurfaces. Advanced Optical Materials, 2022, 10, 2102113.	7.3	28
15	Single-layer transmissive metasurface for generating OAM vortex wave with homogeneous radiation based on the principle of Fabry-Perot cavity. Applied Physics Letters, 2019, 114, .	3.3	27
16	Frequency‐Multiplexed Complex‐Amplitude Meta‐Devices Based on Bispectral 2‐Bit Coding Meta‐Atoms. Advanced Optical Materials, 2020, 8, 2000919.	7.3	27
17	Dual‐Band Terahertz Auto‐Focusing Airy Beam Based on Single‐Layer Geometric Metasurfaces with Independent Complex Amplitude Modulation at Each Wavelength. Advanced Theory and Simulations, 2019, 2, 1900071.	2.8	23
18	Dual-Band High Efficiency Terahertz Meta-Devices Based on Reflective Geometric Metasurfaces. IEEE Access, 2019, 7, 58131-58138.	4.2	22

#	Article	IF	Citations
19	Design of broadband and wide field-of-view metalenses. Optics Letters, 2021, 46, 5735-5738.	3.3	18
20	Deep neural network enabled active metasurface embedded design. Nanophotonics, 2022, 11, 4149-4158.	6.0	18
21	A Wideband Dual-Polarized L-Probe Antenna Array with Hollow Structure and Modified Ground Plane for Isolation Enhancement. IEEE Antennas and Wireless Propagation Letters, 2017, , 1-1.	4.0	17
22	A novel dual-band bandpass filter using a single perturbed substrate integrated waveguide cavity. , 2017, , .		16
23	High‐Efficiency Full‐Space Complex‐Amplitude Metasurfaces Enabled by a Bi‐Spectral Single‐Substrate‐Layer Meta‐Atom. Advanced Optical Materials, 2022, 10, .	7.3	15
24	Electrically tunable diffraction efficiency from gratings in Al-doped ZnO. Applied Physics Letters, 2017, 110, .	3.3	13
25	Multifunctional Geometric Metasurfaces Based on Tri‐Spectral Meta‐Atoms with Completely Independent Phase Modulations at Three Wavelengths. Advanced Theory and Simulations, 2020, 3, 2000099.	2.8	13
26	Alleviating Orbital-Angular-Momentum-Mode Dispersion Using a Reflective Metasurface. Physical Review Applied, 2020, 13, .	3.8	12
27	A compact triple‐mode bandpass filter based on isosceles right‐angled triangular resonator. Microwave and Optical Technology Letters, 2020, 62, 2473-2479.	1.4	8
28	Adaptive optical beam steering and tuning system based on electrowetting driven fluidic rotor. Communications Physics, 2020, 3, .	5.3	6
29	Multichannel High‐Efficiency Metasurfaces Based on Tri‐Band Single‐Cell Meta‐Atoms with Independent Complex‐Amplitude Modulations. Advanced Photonics Research, 2021, 2, 2100088.	3.6	6
30	A Microwave Direction of Arrival Estimation Technique Using a Single Antenna. IEEE Transactions on Antennas and Propagation, 2016, 64, 3189-3195.	5.1	5
31	Angular-dependent photodetection enhancement by a metallic circular disk optical antenna. AIP Advances, 2017, 7, .	1.3	5
32	Generation of over 1000 Diffraction Spots from 2D Graded Photonic Super-Crystals. Photonics, 2020, 7, 27.	2.0	4
33	Four‐Channel Kaleidoscopic Metasurfaces Enabled by a Single‐Layered Single‐Cell Quad‐Band Meta‐Atom. Advanced Theory and Simulations, 2022, 5, .	2.8	4
34	An ultra‐slow‐wave transmission line on CMOS technology. Microwave and Optical Technology Letters, 2017, 59, 604-606.	1.4	3
35	Novel balanced single/dual‐band bandpass filters based on a circular patch resonator. IET Microwaves, Antennas and Propagation, 2021, 15, 206-220.	1.4	3
36	Miniaturized dual-band filter using triple-folded substrate-integrated waveguide resonators. Microwave and Optical Technology Letters, 2018, 60, 2038-2043.	1.4	2

#	Article	IF	Citations
37	Sandwiched PRS Fabry-Perot Structure for Achieving Compactness and Improved Aperture Efficieny. , 2018, , .		1
38	Ultra-thin, high-efficiency mid-infrared Huygens metasurface optics. , 2018, , .		1
39	A High Performance Terahertz Metalens. , 2019, , .		1
40	Multifunctional Metasurface Design with a Generative Adversarial Network (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	7.3	1
41	A Deep Learning Approach to Explore the Mutual Coupling Effects in Metasurfaces. , 2021, , .		1
42	Wide Field-of-view Achromatic Metalenses. , 2021, , .		1
43	A Deep Neural Network Near-Universal Dielectric Meta-Atom Generator. , 2021, , .		0
44	Understanding wide field-of-view metalenses. , 2022, , .		0
45	Spatial coherence filtering of normal incidence light through leaky mode engineering. AIP Advances, 2022, 12, 035033.	1.3	0