

# Lingling Huang

## List of Publications by Year in descending order

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111  
papers

7,402  
citations

117453

34  
h-index

54797

84  
g-index

111  
all docs

111  
docs citations

111  
times ranked

4582  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional optical holography using a plasmonic metasurface. Nature Communications, 2013, 4, .	5.8	1,103
2	Dual-polarity plasmonic metalens for visible light. Nature Communications, 2012, 3, 1198.	5.8	935
3	Dispersionless Phase Discontinuities for Controlling Light Propagation. Nano Letters, 2012, 12, 5750-5755.	4.5	848
4	Helicity dependent directional surface plasmon polariton excitation using a metasurface with interfacial phase discontinuity. Light: Science and Applications, 2013, 2, e70-e70.	7.7	461
5	Beam switching and bifocal zoom lensing using active plasmonic metasurfaces. Light: Science and Applications, 2017, 6, e17016-e17016.	7.7	313
6	Metasurface holography: from fundamentals to applications. Nanophotonics, 2018, 7, 1169-1190.	2.9	296
7	Multichannel vectorial holographic display and encryption. Light: Science and Applications, 2018, 7, 95.	7.7	291
8	Broadband Hybrid Holographic Multiplexing with Geometric Metasurfaces. Advanced Materials, 2015, 27, 6444-6449.	11.1	177
9	Polarization-Encrypted Orbital Angular Momentum Multiplexed Metasurface Holography. ACS Nano, 2020, 14, 5553-5559.	7.3	155
10	Recent advances in multi-dimensional metasurfaces holographic technologies. PhotonIX, 2020, 1, .	5.5	140
11	Optical secret sharing with cascaded metasurface holography. Science Advances, 2021, 7, .	4.7	139
12	Strongly Emissive Lead-Free $\text{OD Cs}_3\text{Cu}_2\text{I}_5$ Perovskites Synthesized by a Room Temperature Solvent Evaporation Crystallization for Down-Conversion Light-Emitting Devices and Fluorescent Inks. Advanced Optical Materials, 2020, 8, 1901723.	3.6	109
13	Volumetric Generation of Optical Vortices with Metasurfaces. ACS Photonics, 2017, 4, 338-346.	3.2	108
14	Simultaneous Spectral and Spatial Modulation for Color Printing and Holography Using All-Dielectric Metasurfaces. Nano Letters, 2019, 19, 8964-8971.	4.5	103
15	Versatile Polarization Generation and Manipulation Using Dielectric Metasurfaces. Laser and Photonics Reviews, 2020, 14, 2000116.	4.4	97
16	Highly luminescent and stable lead-free cesium copper halide perovskite powders for UV-pumped phosphor-converted light-emitting diodes. Photonics Research, 2020, 8, 768.	3.4	94
17	Nonreciprocal Asymmetric Polarization Encryption by Layered Plasmonic Metasurfaces. Nano Letters, 2019, 19, 3976-3980.	4.5	85
18	Silicon Metasurfaces for Third Harmonic Geometric Phase Manipulation and Multiplexed Holography. Nano Letters, 2019, 19, 6585-6591.	4.5	77

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19	Broadband Multiplane Holography Based on Plasmonic Metasurface. <i>Advanced Optical Materials</i> , 2017, 5, 1700434.	3.6	74
20	Ultrathin Metasurface Laser Beam Shaper. <i>Advanced Optical Materials</i> , 2014, 2, 978-982.	3.6	69
21	Reversible Three-Dimensional Focusing of Visible Light with Ultrathin Plasmonic Flat Lens. <i>Advanced Optical Materials</i> , 2013, 1, 517-521.	3.6	60
22	Single-layer one-dimensional nonpolarizing guided-mode resonance filters under normal incidence. <i>Optics Letters</i> , 2011, 36, 2411.	1.7	57
23	Nanoscale Polarization Manipulation and Encryption Based on Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1800490.	3.6	56
24	Selective Diffraction with Complex Amplitude Modulation by Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1701181.	3.6	53
25	High-efficiency Bessel beam array generation by Huygens metasurfaces. <i>Nanophotonics</i> , 2019, 8, 1079-1085.	2.9	53
26	A Free-Space Orbital Angular Momentum Multiplexing Communication System Based on a Metasurface. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800278.	4.4	51
27	Roadmap on Recent Progress in FINCH Technology. <i>Journal of Imaging</i> , 2021, 7, 197.	1.7	51
28	Cylindrically Focused Nonablative Femtosecond Laser Processing of Long-Range Uniform Periodic Surface Structures with Tunable Diffraction Efficiency. <i>Advanced Optical Materials</i> , 2019, 7, 1900706.	3.6	47
29	Amplitude- and Phase-Controlled Surface Plasmon Polariton Excitation with Metasurfaces. <i>ACS Photonics</i> , 2016, 3, 124-129.	3.2	45
30	Quantitatively Correlated Amplitude Holography Based on Photon Sieves. <i>Advanced Optical Materials</i> , 2020, 8, 1901169.	3.6	45
31	Polarization and Holography Recording in Real- and $k$ -Space Based on Dielectric Metasurface. <i>Advanced Functional Materials</i> , 2021, 31, 2100406.	7.8	43
32	Tunable wave plate based on active plasmonic metasurfaces. <i>Optics Express</i> , 2017, 25, 4216.	1.7	42
33	Nonlinear Wavefront Control by Geometric-Phase Dielectric Metasurfaces: Influence of Mode Field and Rotational Symmetry. <i>Advanced Optical Materials</i> , 2020, 8, 1902050.	3.6	38
34	Optical wavefront shaping based on functional metasurfaces. <i>Nanophotonics</i> , 2020, 9, 987-1002.	2.9	36
35	Switchable active phase modulation and holography encryption based on hybrid metasurfaces. <i>Nanophotonics</i> , 2020, 9, 905-912.	2.9	34
36	Controlled Synthesis and Flexible Self-Assembly of Monodisperse Au@Semiconductor Core/Shell Hetero-Nanocrystals into Diverse Superstructures. <i>Chemistry of Materials</i> , 2017, 29, 2355-2363.	3.2	33

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37	Metasurface with dynamic chiral meta-atoms for spin multiplexing hologram and low observable reflection. <i>Photonix</i> , 2022, 3, .	5.5	32
38	Near-field plasmonic beam engineering with complex amplitude modulation based on metasurface. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	30
39	Four-Wave Mixing Holographic Multiplexing Based on Nonlinear Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1900782.	3.6	30
40	BST-silicon hybrid terahertz meta-modulator for dual-stimuli-triggered opposite transmission amplitude control. <i>Nanophotonics</i> , 2022, 11, 2075-2083.	2.9	30
41	Dynamic Display of Full-Stokes Vectorial Holography Based on Metasurfaces. <i>ACS Photonics</i> , 2021, 8, 1746-1753.	3.2	29
42	Code Division Multiplexing Inspired Dynamic Metasurface Holography. <i>Advanced Functional Materials</i> , 2021, 31, 2103326.	7.8	29
43	Illusion and cloaking using dielectric conformal metasurfaces. <i>Optics Express</i> , 2018, 26, 31625.	1.7	29
44	All-dielectric bifocal isotropic metalens for a single-shot hologram generation device. <i>Optics Express</i> , 2020, 28, 21549.	1.7	27
45	Second harmonic imaging of plasmonic Pancharatnam-Berry phase metasurfaces coupled to monolayers of WS <sub>2</sub> . <i>Nanophotonics</i> , 2020, 9, 351-360.	2.9	26
46	A complex-amplitude hologram using an ultra-thin dielectric metasurface. <i>Nanoscale</i> , 2020, 12, 24162-24168.	2.8	26
47	Tailoring Circular Dichroism for Simultaneous Control of Amplitude and Phase via Ohmic Dissipation Metasurface. <i>Advanced Optical Materials</i> , 2021, 9, 2100140.	3.6	25
48	Rotational Multiplexing Method Based on Cascaded Metasurface Holography. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	25
49	Multiplexed Generation of Generalized Vortex Beams with On-Demand Intensity Profiles Based on Metasurfaces. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	25
50	Soil bacterial community structure and extracellular enzyme activities under different land use types in a long-term reclaimed wetland. <i>Journal of Soils and Sediments</i> , 2019, 19, 2543-2557.	1.5	24
51	Polarization Multiplexing Terahertz Metasurfaces through Spatial Femtosecond Laser-Shaping Fabrication. <i>Advanced Optical Materials</i> , 2020, 8, 2000136.	3.6	23
52	Correlated triple hybrid amplitude and phase holographic encryption based on a metasurface. <i>Photonics Research</i> , 2022, 10, 678.	3.4	23
53	Full-Stokes polarization transformations and time sequence metasurface holographic display. <i>Photonics Research</i> , 2022, 10, 1031.	3.4	23
54	Integrated plasmonic semi-circular launcher for dielectric-loaded surface plasmon-polariton waveguide. <i>Optics Express</i> , 2011, 19, 6541.	1.7	22

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55	Generation of Airy beam arrays in real and K spaces based on a dielectric metasurface. Optics Express, 2021, 29, 18781.	1.7	21
56	Stability enhancement of Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> powder with high blue emission realized by Na <sup>+</sup> doping strategy. Journal of Luminescence, 2021, 239, 118333.	1.5	21
57	Fast-Response Oxygen Optical Fiber Sensor based on PEA <sub>2</sub> SnI <sub>4</sub> Perovskite with Extremely Low Limit of Detection. Advanced Science, 2022, 9, e2104708.	5.6	20
58	Nonlinear Bicolor Holography Using Plasmonic Metasurfaces. ACS Photonics, 2021, 8, 1013-1019.	3.2	18
59	A deep learning approach for trustworthy high-fidelity computational holographic orbital angular momentum communication. Applied Physics Letters, 2021, 119, .	1.5	17
60	Reconfigurable metasurface hologram by utilizing addressable dynamic pixels. Optics Express, 2019, 27, 21153.	1.7	17
61	Controllable Polarization and Diffraction Modulated Multi-Functionality Based on Metasurface. Advanced Optical Materials, 2022, 10, .	3.6	17
62	Flux and its seasonal variation of suspended particulate matter in the Bohai Sea, Yellow Sea and East China Sea. Geological Journal, 2016, 51, 22-34.	0.6	16
63	Thermally Reconfigurable Hologram Fabricated by Spatially Modulated Femtosecond Pulses on a Heat-Shrinkable Shape Memory Polymer for Holographic Multiplexing. ACS Applied Materials & Interfaces, 2021, 13, 51736-51745.	4.0	16
64	Independent Light Field Manipulation in Diffraction Orders of Metasurface Holography. Laser and Photonics Reviews, 2022, 16, .	4.4	16
65	Magnetically controllable metasurface and its application. Frontiers of Optoelectronics, 2021, 14, 154-169.	1.9	15
66	Fiber-optic meta-tip with multi-sensitivity resonance dips for humidity sensing. Sensors and Actuators B: Chemical, 2022, 352, 130957.	4.0	15
67	Liquid crystal integrated metadvice for reconfigurable hologram displays and optical encryption. Optics Express, 2021, 29, 9553.	1.7	13
68	Controllable Photonic Structures on Silicon-on-Insulator Devices Fabricated Using Femtosecond Laser Lithography. ACS Applied Materials & Interfaces, 2021, 13, 43622-43631.	4.0	13
69	Dynamic control of mode modulation and spatial multiplexing using hybrid metasurfaces. Optics Express, 2019, 27, 18740.	1.7	13
70	Nanoscale material redistribution induced by spatially modulated femtosecond laser pulses for flexible high-efficiency surface patterning. Optics Express, 2017, 25, 31431.	1.7	12
71	Creating a three-dimensional surface with antireflective properties by using femtosecond-laser Bessel-beam-assisted thermal oxidation. Optics Letters, 2020, 45, 2989.	1.7	12
72	Recent Advancement in Optical Metasurface: Fundament to Application. Micromachines, 2022, 13, 1025.	1.4	12

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73	Spin-selective corner reflector for retro-reflection and absorption by a circular dichroitic manner. Photonics Research, 2021, 9, 726.	3.4	11
74	Acoustic geometric-phase meta-array. New Journal of Physics, 2021, 23, 113026.	1.2	11
75	Efficient Frequency Conversion with Geometric Phase Control in Optical Metasurfaces. Advanced Science, 2022, 9, e2104508.	5.6	11
76	Arbitrary amplitude and phase control in visible by dielectric metasurface. Optics Express, 2022, 30, 13530.	1.7	11
77	High-quality micropattern printing by interlacing-pattern holographic femtosecond pulses. Nanophotonics, 2020, 9, 2895-2904.	2.9	10
78	High-efficiency broadband polarization converter based on $\lambda$ , $\lambda$ -shaped metasurface. Journal Physics D: Applied Physics, 2017, 50, 454001.	1.3	9
79	Flexible Gray-Scale Surface Patterning Through Spatiotemporal-Interference-Based Femtosecond Laser Shaping. Advanced Optical Materials, 2018, 6, 1801021.	3.6	9
80	Probing the Photonic Spin-Orbit Interactions in the Near Field of Nanostructures. Advanced Functional Materials, 2019, 29, 1902286.	7.8	9
81	A wavelength and polarization selective photon sieve for holographic applications. Nanophotonics, 2021, 10, 4543-4550.	2.9	9
82	Compact magnetic field sensor based on plasmonic fiber-tip. Optics Express, 2021, 29, 38904.	1.7	9
83	Multifunctional acoustic holography based on compact acoustic geometric-phase meta-array. Journal of Applied Physics, 2022, 131, .	1.1	9
84	Single pixel imaging based on large capacity spatial multiplexing metasurface. Nanophotonics, 2022, 11, 3071-3080.	2.9	9
85	Flash Ablation of Tunable and Deep-Subwavelength Nanogap by Using a Spatially Modulated Femtosecond Laser Pulse for Plasmonic Application. ACS Applied Nano Materials, 2019, 2, 4933-4941.	2.4	8
86	Microwave-assisted furfural production from xylose and bamboo hemicellulose in a biphasic medium. Biomass Conversion and Biorefinery, 2023, 13, 7895-7907.	2.9	8
87	Single-shot phase retrieval based on anisotropic metasurface. Applied Physics Letters, 2022, 120, .	1.5	8
88	Experimental verification of the acoustic geometric phase. Applied Physics Letters, 2022, 120, .	1.5	8
89	High-efficiency fabrication of computer-generated holograms in silica glass using a femtosecond Bessel beam. Optics and Laser Technology, 2021, 135, 106729.	2.2	7
90	Soil bacterial and fungal communities and associated nutrient cycling in relation to rice cultivation history after reclamation of natural wetland. Land Degradation and Development, 2021, 32, 1287-1300.	1.8	7

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91	Imaging-based optical barcoding for relative humidity sensing based on meta-tip. <i>Nanophotonics</i> , 2021, 11, 111-118.	2.9	7
92	Terahertz switchable VO <sub>2</sub> -Au hybrid active metasurface holographic encryption. <i>Optics Express</i> , 2022, 30, 20750.	1.7	7
93	Ultra-dense moving cascaded metasurface holography by using a physics-driven neural network. <i>Optics Express</i> , 2022, 30, 24285.	1.7	7
94	Broadband achromatic metalens and meta-deflector based on integrated metasurface. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 025107.	1.3	6
95	Polarization Optics: Versatile Polarization Generation and Manipulation Using Dielectric Metasurfaces ( <i>Laser Photonics Rev.</i> 14(11)/2020). <i>Laser and Photonics Reviews</i> , 2020, 14, 2070060.	4.4	5
96	Achieving Broadband Spin-Correlated Asymmetric Reflection Using a Circular Dichroitic Meta-Mirror. <i>Annalen Der Physik</i> , 2021, 533, 2000515.	0.9	4
97	Type-I Weyl points induced by negative coupling in photonic crystal. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	3
98	Tailoring the Excited and Cutoff States of Spoof Surface Plasmon Polaritons for Full-Space Quadruple Functionalities. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 6230-6238.	4.0	3
99	Magnetically controllable holographic encryption based on a magneto-optical metasurface. <i>Optics Express</i> , 2022, 30, 8366.	1.7	3
100	Three-dimensional Dirac semimetal metamaterial enabled by negative couplings. <i>New Journal of Physics</i> , 2022, 24, 033025.	1.2	3
101	Tunable Multi-Port Surface Plasmon Polariton Excitation with Nanostructures. <i>Plasmonics</i> , 2016, 11, 817-823.	1.8	2
102	Simultaneous control of amplitude and phase via shifting isotropy to anisotropy for achieving holographic meta-mirror. <i>Optics Express</i> , 2021, 29, 43745.	1.7	2
103	High efficiency and scalable fabrication of fresnel zone plates using holographic femtosecond pulses. <i>Nanophotonics</i> , 2022, 11, 3081-3091.	2.9	2
104	Linear birefringence magnitude of artificial self-assembled DNA crystals. <i>Optical Materials Express</i> , 2011, 1, 936.	1.6	1
105	Breaking the spatial reciprocity with Janus metamaterials. <i>Light: Science and Applications</i> , 2019, 8, 62.	7.7	1
106	Cascaded Metasurface Holograms for Optical Secret Sharing. , 2021, , .		1
107	Stable blue-emissive aluminum acetylacetonate nanocrystals with high quantum yield of over 80% and embedded in polymer matrix for remote UV-pumped white light-emitting diodes. <i>Nanophotonics</i> , 2020, 9, 1509-1518.	2.9	1
108	Giant polarization anisotropic optical response from anodic aluminum oxide templates embedded with plasmonic metamaterials. <i>Optics Express</i> , 2020, 28, 29513.	1.7	1

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109	Pulsed laser annealing for metallic nanorods embedded in alumina. , 2018, , .		0
110	Bilayered plasmonic metasurface for non-reciprocal holographic image encryption (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70		0
111	Publisher's Note: "Multifunctional acoustic holography based on compact acoustic geometric-phase meta-array" [J. Appl. Phys. 131, 185108 (2022)]. Journal of Applied Physics, 2022, 131, .	1.1	0