

# Xiong Li

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

4,333  
citations

35  
h-index

64  
g-index

112  
ext. papers

5,225  
ext. citations

6.3  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
102	Emerging Long-Range Order from Freeform Disordered Metasurface.. <i>Advanced Materials</i> , <b>2022</b> , e2108709	1.8	5
101	Planar Hyperspectral Imager With Small Smile and Keystone Based on Two Metasurfaces. <i>IEEE Photonics Journal</i> , <b>2022</b> , 14, 1-8	1.8	
100	All-metallic high-efficiency generalized Pancharatnam-Berry phase metasurface with chiral meta-atoms. <i>Nanophotonics</i> , <b>2022</b> ,	6.3	2
99	Synthetic vector optical fields with spatial and temporal tunability. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2022</b> , 65, 1	3.6	6
98	Metasurface spatiotemporal dynamics and asymmetric photonic spin-orbit interactions mediated vector-polarization optical chaos. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	8
97	Waveguide evanescent waves based structured illumination microscopy with compact structure and flexible design. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 215101	3	0
96	Bulk plasmon polariton based structured illumination microscopy by utilizing hyperbolic metamaterials. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 285103	3	0
95	Generalized Pancharatnam-Berry Phase in Rotationally Symmetric Meta-Atoms. <i>Physical Review Letters</i> , <b>2021</b> , 126, 183902	7.4	29
94	Monolithic-Integrated Multiplexed Devices Based on Metasurface-Driven Guided Waves. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2000239	3.5	7
93	Quasi-Continuous Metasurface Beam Splitters Enabled by Vector Iterative Fourier Transform Algorithm. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
92	Angular-multiplexed multichannel optical vortex arrays generators based on geometric metasurface. <i>IScience</i> , <b>2021</b> , 24, 102107	6.1	9
91	Dual-wavelength multilevel diffractive lenses for near-infrared imaging. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 175109	3	0
90	Bloch Surface Wave Assisted Structured Illumination Microscopy for Sub-100 nm Resolution. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-9	1.8	0
89	Extreme-Angle Silicon Infrared Optics Enabled by Streamlined Surfaces. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008157	24	30
88	Electromagnetic Architectures: Structures, Properties, Functions and Their Intrinsic Relationships in Subwavelength Optics and Electromagnetics. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2100023	1.9	6
87	Breaking the Cut-Off Wavelength Limit of GaTe through Self-Driven Oxygen Intercalation in Air.. <i>Advanced Science</i> , <b>2021</b> , e2103429	13.6	2
86	Inversion Symmetry Breaking in Lithium Intercalated Graphitic Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28561-28567	9.5	6

85	Simultaneous Full-Color Printing and Holography Enabled by Centimeter-Scale Plasmonic Metasurfaces. <i>Advanced Science</i> , <b>2020</b> , 7, 1903156	13.6	46
84	Dual-Functional Metasurface toward Giant Linear and Circular Dichroism. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1902061	8.1	11
83	Crosstalk reduction of integrated optical waveguides with nonuniform subwavelength silicon strips. <i>Scientific Reports</i> , <b>2020</b> , 10, 4491	4.9	10
82	Full Stokes Polarimetry for Wide-Angle Incident Light. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 2000044	2.5	5
81	High-Performance Multilayer Radiative Cooling Films Designed with Flexible Hybrid Optimization Strategy. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
80	Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-10	1.8	4
79	Broadband and high-efficiency accelerating beam generation by dielectric catenary metasurfaces. <i>Nanophotonics</i> , <b>2020</b> , 9, 2829-2837	6.3	15
78	Off-axis multi-wavelength dispersion controlling metalens for multi-color imaging. <i>Opto-Electronic Advances</i> , <b>2020</b> , 3, 19000501-19000507	6.5	44
77	Plasmonic lithography for the fabrication of surface nanostructures with a feature size down to 9 nm. <i>Nanoscale</i> , <b>2020</b> , 12, 2415-2421	7.7	21
76	Tunable Optical Hooks in the Visible Band Based on Ultra-Thin Metalenses. <i>Annalen Der Physik</i> , <b>2020</b> , 532, 1900396	2.6	5
75	All-metallic geometric metasurfaces for broadband and high-efficiency wavefront manipulation. <i>Nanophotonics</i> , <b>2020</b> , 9, 3209-3215	6.3	12
74	Catenary Functions Meet Electromagnetic Waves: Opportunities and Promises. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001194	8.1	23
73	Multistate Switching of Photonic Angular Momentum Coupling in Phase-Change Metadevices. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908194	24	51
72	Flexible and Tunable Dielectric Color Meta-hologram. <i>Plasmonics</i> , <b>2020</b> , 15, 217-223	2.4	5
71	Asymmetric Transmission and Wavefront Manipulation toward Dual-Frequency Meta-Holograms. <i>ACS Photonics</i> , <b>2019</b> , 6, 1541-1546	6.3	27
70	Polarization-Controlled Broadband Accelerating Beams Generation by Single Catenary-Shaped Metasurface. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900503	8.1	27
69	A Tunable Metasurface Deflector Based on MIM Waveguide Filled with Phase-Change Material. <i>Plasmonics</i> , <b>2019</b> , 14, 1735-1741	2.4	7
68	High-Efficiency and Tunable Circular-Polarization Beam Splitting with a Liquid-Filled All-Metallic Catenary Meta-Mirror. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900334	6.8	11

67	Midinfrared real-time polarization imaging with all-dielectric metasurfaces. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 161904	3.4	24
66	Methodologies for On-Demand Dispersion Engineering of Waves in Metasurfaces. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801376	8.1	19
65	Catenary Optics: Heat Resisting Metallic Meta-Skin for Simultaneous Microwave Broadband Scattering and Infrared Invisibility Based on Catenary Optical Field (Adv. Mater. Technol. 2/2019). <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1970012	6.8	
64	Colorful Metahologram with Independently Controlled Images in Transmission and Reflection Spaces. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1809145	15.6	47
63	Catenary Optics: Catenary Electromagnetics for Ultra-Broadband Lightweight Absorbers and Large-Scale Flat Antennas (Adv. Sci. 7/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970038	13.6	1
62	Large-Area and Low-Cost Nanoslit-Based Flexible Metasurfaces for Multispectral Electromagnetic Wave Manipulation. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900657	8.1	7
61	Experimental demonstration of a continuous varifocal metalens with large zoom range and high imaging resolution. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 163103	3.4	19
60	Spoof Plasmonic Metasurfaces with Catenary Dispersion for Two-Dimensional Wide-Angle Focusing and Imaging. <i>IScience</i> , <b>2019</b> , 21, 145-156	6.1	29
59	Heat Resisting Metallic Meta-Skin for Simultaneous Microwave Broadband Scattering and Infrared Invisibility Based on Catenary Optical Field. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800612	6.8	24
58	Directional Coupling and Spin Routing in Catenary-Shaped SOI Waveguide. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 415-418	2.2	3
57	Generation of Polarization-Sensitive Modulated Optical Vortices with All-Dielectric Metasurfaces. <i>ACS Photonics</i> , <b>2019</b> , 6, 628-633	6.3	17
56	Broadband Functional Metasurfaces: Achieving Nonlinear Phase Generation toward Achromatic Surface Cloaking and Lensing. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801480	8.1	31
55	Refined Model for Plasmon Ruler Based on Catenary-Shaped Optical Fields. <i>Plasmonics</i> , <b>2019</b> , 14, 845-850	10.4	4
54	Ultra-wideband manipulation of electromagnetic waves by bilayer scattering engineered gradient metasurface.. <i>RSC Advances</i> , <b>2018</b> , 8, 13061-13066	3.7	8
53	Plasmonic Metasurfaces for Simultaneous Thermal Infrared Invisibility and Holographic Illusion. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706673	15.6	101
52	Functional metasurfaces based on metallic and dielectric subwavelength slits and stripes array. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 144003	1.8	8
51	Dispersion engineering in metamaterials and metasurfaces. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 054002	3	13
50	Chip-Integrated Geometric Metasurface As a Novel Platform for Directional Coupling and Polarization Sorting by Spin-Orbit Interaction. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-7	3.8	34

49	Broadband metamaterial as an 'invisible' radiative cooling coat. <i>Optics Communications</i> , <b>2018</b> , 407, 204-207		35
48	Color display and encryption with a plasmonic polarizing metamirror. <i>Nanophotonics</i> , <b>2018</b> , 7, 323-331	6.3	48
47	Achromatic Broadband Super-Resolution Imaging by Super-Oscillatory Metasurface. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1800064	8.3	50
46	High-Efficiency and Wide-Angle Beam Steering Based on Catenary Optical Fields in Ultrathin Metalens. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800592	8.1	92
45	Revisitation of Extraordinary Young's Interference: from Catenary Optical Fields to Spin-Orbit Interaction in Metasurfaces. <i>ACS Photonics</i> , <b>2018</b> , 5, 3198-3204	6.3	79
44	Ultrathin Planar Microlens Arrays Based on Geometric Metasurface. <i>Annalen Der Physik</i> , <b>2018</b> , 530, 1700326	3.6	5
43	Wavelength-Dependent Three-Dimensional Volumetric Optical Vortices Modulation Based on Metasurface. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-8	1.8	3
42	An Ultrabroadband THz Absorber Based on Structured Doped Silicon With Antireflection Techniques. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-10	1.8	6
41	Photonic Devices: Plasmonic Metasurfaces for Switchable Photonic Spin-Orbit Interactions Based on Phase Change Materials (Adv. Sci. 10/2018). <i>Advanced Science</i> , <b>2018</b> , 5, 1870063	13.6	2
40	Wide Field-of-view and Broadband Terahertz Beam Steering Based on Gap Plasmon Geodesic Antennas. <i>Scientific Reports</i> , <b>2017</b> , 7, 41642	4.9	4
39	Actively Tunable Structural Color Rendering with Tensile Substrate. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600829	8.1	54
38	Merging plasmonics and metamaterials by two-dimensional subwavelength structures. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4361-4378	7.1	63
37	Ultrahigh-capacity dynamic holographic displays via anisotropic nanoholes. <i>Nanoscale</i> , <b>2017</b> , 9, 1409-1415	5.7	38
36	All-Dielectric Metasurfaces for Simultaneous Giant Circular Asymmetric Transmission and Wavefront Shaping Based on Asymmetric Photonic Spin-Orbit Interactions. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1704295	15.6	174
35	Metasurfaces: All-Dielectric Metasurfaces for Simultaneous Giant Circular Asymmetric Transmission and Wavefront Shaping Based on Asymmetric Photonic Spin-Orbit Interactions (Adv. Funct. Mater. 47/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1770280	15.6	3
34	Meta-holograms based on evanescent waves for encryption. <i>RSC Advances</i> , <b>2017</b> , 7, 53611-53616	3.7	1
33	Broadband spin Hall effect of light in single nanoapertures. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e162767	16.7	108
32	Pushing the plasmonic imaging nanolithography to nano-manufacturing. <i>Optics Communications</i> , <b>2017</b> , 404, 62-72	2	16

31	Orbital Angular Momentum Multiplexing and Demultiplexing by a Single Metasurface. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600502	8.1	104
30	Multi-Channel Vortex Beam Generation by Simultaneous Amplitude and Phase Modulation with Two-Dimensional Metamaterial. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600201	6.8	52
29	Super-resolution imaging with a Bessel lens realized by a geometric metasurface. <i>Optics Express</i> , <b>2017</b> , 25, 13933-13943	3.3	35
28	Dispersion controlling meta-lens at visible frequency. <i>Optics Express</i> , <b>2017</b> , 25, 21419-21427	3.3	54
27	Nanoapertures with ordered rotations: symmetry transformation and wide-angle flat lensing. <i>Optics Express</i> , <b>2017</b> , 25, 31471-31477	3.3	65
26	Meta-Chirality: Fundamentals, Construction and Applications. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	30
25	Helicity Multiplexed Spin-Orbit Interaction in Metasurface for Colorized and Encrypted Holographic Display. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1700248	2.6	14
24	Merging Geometric Phase and Plasmon Retardation Phase in Continuously Shaped Metasurfaces for Arbitrary Orbital Angular Momentum Generation. <i>ACS Photonics</i> , <b>2016</b> , 3, 2022-2029	6.3	156
23	Multicolor 3D meta-holography by broadband plasmonic modulation. <i>Science Advances</i> , <b>2016</b> , 2, e1601102	4.3	370
22	Achromatic flat optical components via compensation between structure and material dispersions. <i>Scientific Reports</i> , <b>2016</b> , 6, 19885	4.9	80
21	Generation and detection of orbital angular momentum via metasurface. <i>Scientific Reports</i> , <b>2016</b> , 6, 24286	4.9	64
20	Dynamic Control of the Extraordinary Optical Scattering in Semicontinuous 2D Metamaterials. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 659-663	8.1	25
19	Laser Linewidth Measurement Based on Amplitude Difference Comparison of Coherent Envelope. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 759-762	2.2	26
18	Catenary nanostructures as compact Bessel beam generators. <i>Scientific Reports</i> , <b>2016</b> , 6, 20524	4.9	70
17	Metasurface-based broadband hologram with high tolerance to fabrication errors. <i>Scientific Reports</i> , <b>2016</b> , 6, 19856	4.9	37
16	Wavelength-selective orbital angular momentum generation based on a plasmonic metasurface. <i>Nanoscale</i> , <b>2016</b> , 8, 12267-71	7.7	18
15	A planar chiral meta-surface for optical vortex generation and focusing. <i>Scientific Reports</i> , <b>2015</b> , 5, 10365	4.9	142
14	Spatially and spectrally engineered spin-orbit interaction for achromatic virtual shaping. <i>Scientific Reports</i> , <b>2015</b> , 5, 9822	4.9	118

13	Near-field collimation of light carrying orbital angular momentum with bull's-eye-assisted plasmonic coaxial waveguides. <i>Scientific Reports</i> , <b>2015</b> , 5, 12108	4.9	16
12	Improvement of Focusing Efficiency of Plasmonic Planar Lens by Oil Immersion. <i>Plasmonics</i> , <b>2015</b> , 10, 539-545	2.4	3
11	Engineering the phase front of light with phase-change material based planar lenses. <i>Scientific Reports</i> , <b>2015</b> , 5, 8660	4.9	100
10	Tight focusing of radially and azimuthally polarized light with plasmonic metalens. <i>Optics Communications</i> , <b>2015</b> , 356, 445-450	2	15
9	Catenary optics for achromatic generation of perfect optical angular momentum. <i>Science Advances</i> , <b>2015</b> , 1, e1500396	14.3	422
8	Fabrication of anisotropically arrayed nano-slots metasurfaces using reflective plasmonic lithography. <i>Nanoscale</i> , <b>2015</b> , 7, 18805-12	7.7	63
7	Quasi-continuous metasurface for ultra-broadband and polarization-controlled electromagnetic beam deflection. <i>Scientific Reports</i> , <b>2015</b> , 5, 17733	4.9	36
6	Multispectral optical metasurfaces enabled by achromatic phase transition. <i>Scientific Reports</i> , <b>2015</b> , 5, 15781	4.9	88
5	Ultrabroadband superoscillatory lens composed by plasmonic metasurfaces for subdiffraction light focusing. <i>Laser and Photonics Reviews</i> , <b>2015</b> , 9, 713-719	8.3	159
4	Design and fabrication of broadband ultralow reflectivity black Si surfaces by laser micro/nanoprocessing. <i>Light: Science and Applications</i> , <b>2014</b> , 3, e185-e185	16.7	208
3	Super-Resolution Long-Depth Focusing by Radially Polarized Light Irradiation Through Plasmonic Lens in Optical Meso-field. <i>Plasmonics</i> , <b>2014</b> , 9, 55-60	2.4	20
2	Tunable bandwidth of band-stop filter by metamaterial cell coupling in optical frequency. <i>Optics Express</i> , <b>2011</b> , 19, 5283-9	3.3	36
1	Introducing dipole-like resonance into magnetic resonance to realize simultaneous drop in transmission and reflection at terahertz frequency. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 053103	2.5	13