

Xiong Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3871884/publications.pdf>

Version: 2024-02-01

108
papers

6,048
citations

61984

43
h-index

71685

76
g-index

112
all docs

112
docs citations

112
times ranked

3672
citing authors

#	ARTICLE	IF	CITATIONS
1	Catenary optics for achromatic generation of perfect optical angular momentum. <i>Science Advances</i> , 2015, 1, e1500396.	10.3	539
2	Multicolor 3D meta-holography by broadband plasmonic modulation. <i>Science Advances</i> , 2016, 2, e1601102.	10.3	481
3	All-Dielectric Metasurfaces for Simultaneous Giant Circular Asymmetric Transmission and Wavefront Shaping Based on Asymmetric Photonic Spin-Orbit Interactions. <i>Advanced Functional Materials</i> , 2017, 27, 1704295.	14.9	273
4	Design and fabrication of broadband ultralow reflectivity black Si surfaces by laser micro/nanoprocessing. <i>Light: Science and Applications</i> , 2014, 3, e185-e185.	16.6	257
5	Ultrabroadband superoscillatory lens composed by plasmonic metasurfaces for subdiffraction light focusing. <i>Laser and Photonics Reviews</i> , 2015, 9, 713-719.	8.7	199
6	Merging Geometric Phase and Plasmon Retardation Phase in Continuously Shaped Metasurfaces for Arbitrary Orbital Angular Momentum Generation. <i>ACS Photonics</i> , 2016, 3, 2022-2029.	6.6	189
7	A planar chiral meta-surface for optical vortex generation and focusing. <i>Scientific Reports</i> , 2015, 5, 10365.	3.3	164
8	Plasmonic Metasurfaces for Simultaneous Thermal Infrared Invisibility and Holographic Illusion. <i>Advanced Functional Materials</i> , 2018, 28, 1706673.	14.9	151
9	Orbital Angular Momentum Multiplexing and Demultiplexing by a Single Metasurface. <i>Advanced Optical Materials</i> , 2017, 5, 1600502.	7.3	150
10	Broadband spin Hall effect of light in single nanoapertures. <i>Light: Science and Applications</i> , 2017, 6, e16276-e16276.	16.6	132
11	High-Efficiency and Wide-Angle Beam Steering Based on Catenary Optical Fields in Ultrathin Metalens. <i>Advanced Optical Materials</i> , 2018, 6, 1800592.	7.3	131
12	Spatially and spectrally engineered spin-orbit interaction for achromatic virtual shaping. <i>Scientific Reports</i> , 2015, 5, 9822.	3.3	130
13	Engineering the Phase Front of Light with Phase-Change Material Based Planar lenses. <i>Scientific Reports</i> , 2015, 5, 8660.	3.3	114
14	Nanoapertures with ordered rotations: symmetry transformation and wide-angle flat lensing. <i>Optics Express</i> , 2017, 25, 31471.	3.4	114
15	Revisitation of Extraordinary Young's Interference: from Catenary Optical Fields to Spin-Orbit Interaction in Metasurfaces. <i>ACS Photonics</i> , 2018, 5, 3198-3204.	6.6	112
16	Multispectral optical metasurfaces enabled by achromatic phase transition. <i>Scientific Reports</i> , 2015, 5, 15781.	3.3	100
17	Achromatic flat optical components via compensation between structure and material dispersions. <i>Scientific Reports</i> , 2016, 6, 19885.	3.3	96
18	Generalized Pancharatnam-Berry Phase in Rotationally Symmetric Meta-Atoms. <i>Physical Review Letters</i> , 2021, 126, 183902.	7.8	95

#	ARTICLE	IF	CITATIONS
19	Actively Tunable Structural Color Rendering with Tensile Substrate. <i>Advanced Optical Materials</i> , 2017, 5, 1600829.	7.3	90
20	Multistate Switching of Photonic Angular Momentum Coupling in Phase-Change Metadevices. <i>Advanced Materials</i> , 2020, 32, e1908194.	21.0	88
21	Generation and detection of orbital angular momentum via metasurface. <i>Scientific Reports</i> , 2016, 6, 24286.	3.3	86
22	Multi-Channel Vortex Beam Generation by Simultaneous Amplitude and Phase Modulation with Two-Dimensional Metamaterial. <i>Advanced Materials Technologies</i> , 2017, 2, 1600201.	5.8	85
23	Off-axis multi-wavelength dispersion controlling metalens for multi-color imaging. <i>Opto-Electronic Advances</i> , 2020, 3, 19000501-19000507.	13.3	85
24	Extreme-Angle Silicon Infrared Optics Enabled by Streamlined Surfaces. <i>Advanced Materials</i> , 2021, 33, e2008157.	21.0	84
25	Catenary nanostructures as compact Bessel beam generators. <i>Scientific Reports</i> , 2016, 6, 20524.	3.3	83
26	Dispersion controlling meta-lens at visible frequency. <i>Optics Express</i> , 2017, 25, 21419.	3.4	78
27	Merging plasmonics and metamaterials by two-dimensional subwavelength structures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4361-4378.	5.5	75
28	Fabrication of anisotropically arrayed nano-slots metasurfaces using reflective plasmonic lithography. <i>Nanoscale</i> , 2015, 7, 18805-18812.	5.6	74
29	Simultaneous Full-Color Printing and Holography Enabled by Centimeter-Scale Plasmonic Metasurfaces. <i>Advanced Science</i> , 2020, 7, 1903156.	11.2	74
30	Achromatic Broadband Super-Resolution Imaging by Super-Oscillatory Metasurface. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800064.	8.7	72
31	Colorful Metahologram with Independently Controlled Images in Transmission and Reflection Spaces. <i>Advanced Functional Materials</i> , 2019, 29, 1809145.	14.9	65
32	Color display and encryption with a plasmonic polarizing metamirror. <i>Nanophotonics</i> , 2018, 7, 323-331.	6.0	63
33	Broadband metamaterial as an "invisible" radiative cooling coat. <i>Optics Communications</i> , 2018, 407, 204-207.	2.1	61
34	Midinfrared real-time polarization imaging with all-dielectric metasurfaces. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	60
35	Laser Linewidth Measurement Based on Amplitude Difference Comparison of Coherent Envelope. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 759-762.	2.5	55
36	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> , 2018, 24, 1-7.	2.9	50

#	ARTICLE	IF	CITATIONS
37	Tunable bandwidth of band-stop filter by metamaterial cell coupling in optical frequency. Optics Express, 2011, 19, 5283.	3.4	49
38	Meta-Chirality: Fundamentals, Construction and Applications. Nanomaterials, 2017, 7, 116.	4.1	49
39	Asymmetric Transmission and Wavefront Manipulation toward Dual-Frequency Meta-Holograms. ACS Photonics, 2019, 6, 1541-1546.	6.6	47
40	Quasi-continuous metasurface for ultra-broadband and polarization-controlled electromagnetic beam deflection. Scientific Reports, 2016, 5, 17733.	3.3	45
41	Metasurface-based broadband hologram with high tolerance to fabrication errors. Scientific Reports, 2016, 6, 19856.	3.3	44
42	Ultrahigh-capacity dynamic holographic displays via anisotropic nanoholes. Nanoscale, 2017, 9, 1409-1415.	5.6	44
43	Broadband Functional Metasurfaces: Achieving Nonlinear Phase Generation toward Achromatic Surface Cloaking and Lensing. Advanced Optical Materials, 2019, 7, 1801480.	7.3	43
44	Polarization-Controlled Broadband Accelerating Beams Generation by Single Catenary-Shaped Metasurface. Advanced Optical Materials, 2019, 7, 1900503.	7.3	42
45	Catenary Functions Meet Electromagnetic Waves: Opportunities and Promises. Advanced Optical Materials, 2020, 8, 2001194.	7.3	42
46	Spoof Plasmonic Metasurfaces with Catenary Dispersion for Two-Dimensional Wide-Angle Focusing and Imaging. IScience, 2019, 21, 145-156.	4.1	41
47	Super-resolution imaging with a Bessel lens realized by a geometric metasurface. Optics Express, 2017, 25, 13933.	3.4	40
48	Emerging Long-Range Order from a Freeform Disordered Metasurface. Advanced Materials, 2022, 34, e2108709.	21.0	33
49	Heat Resisting Metallic Meta-Skin for Simultaneous Microwave Broadband Scattering and Infrared Invisibility Based on Catenary Optical Field. Advanced Materials Technologies, 2019, 4, 1800612.	5.8	32
50	Plasmonic lithography for the fabrication of surface nanostructures with a feature size down to 9 nm. Nanoscale, 2020, 12, 2415-2421.	5.6	31
51	Experimental demonstration of a continuous varifocal metalens with large zoom range and high imaging resolution. Applied Physics Letters, 2019, 115, .	3.3	29
52	Super-Resolution Long-Depth Focusing by Radially Polarized Light Irradiation Through Plasmonic Lens in Optical Meso-field. Plasmonics, 2014, 9, 55-60.	3.4	28
53	All-metallic geometric metasurfaces for broadband and high-efficiency wavefront manipulation. Nanophotonics, 2020, 9, 3209-3215.	6.0	28
54	Dynamic Control of the Extraordinary Optical Scattering in Semicontinuous 2D Metamaterials. Advanced Optical Materials, 2016, 4, 659-663.	7.3	27

#	ARTICLE	IF	CITATIONS
55	Synthetic vector optical fields with spatial and temporal tunability. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	5.1	25
56	Generation of Polarization-Sensitive Modulated Optical Vortices with All-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2019, 6, 628-633.	6.6	24
57	Dual-Functional Metasurface toward Giant Linear and Circular Dichroism. <i>Advanced Optical Materials</i> , 2020, 8, 1902061.	7.3	24
58	Near-field collimation of light carrying orbital angular momentum with bull's-eye-assisted plasmonic coaxial waveguides. <i>Scientific Reports</i> , 2015, 5, 12108.	3.3	23
59	Methodologies for On-Demand Dispersion Engineering of Waves in Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801376.	7.3	23
60	Angular-multiplexed multichannel optical vortex arrays generators based on geometric metasurface. <i>IScience</i> , 2021, 24, 102107.	4.1	23
61	Broadband and high-efficiency accelerating beam generation by dielectric catenary metasurfaces. <i>Nanophotonics</i> , 2020, 9, 2829-2837.	6.0	23
62	Monolithic-Integrated Multiplexed Devices Based on Metasurface-Driven Guided Waves. <i>Advanced Theory and Simulations</i> , 2021, 4, 2000239.	2.8	22
63	Tight focusing of radially and azimuthally polarized light with plasmonic metalens. <i>Optics Communications</i> , 2015, 356, 445-450.	2.1	21
64	Crosstalk reduction of integrated optical waveguides with nonuniform subwavelength silicon strips. <i>Scientific Reports</i> , 2020, 10, 4491.	3.3	21
65	High-Performance Multilayer Radiative Cooling Films Designed with Flexible Hybrid Optimization Strategy. <i>Materials</i> , 2020, 13, 2885.	2.9	21
66	Wavelength-selective orbital angular momentum generation based on a plasmonic metasurface. <i>Nanoscale</i> , 2016, 8, 12267-12271.	5.6	20
67	Dispersion engineering in metamaterials and metasurfaces. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 054002.	2.8	20
68	Large-Area and Low-Cost Nanoslit-Based Flexible Metasurfaces for Multispectral Electromagnetic Wave Manipulation. <i>Advanced Optical Materials</i> , 2019, 7, 1900657.	7.3	19
69	Designing high-efficiency extended depth-of-focus metalens via topology-shape optimization. <i>Nanophotonics</i> , 2022, 11, 2967-2975.	6.0	19
70	Pushing the plasmonic imaging nanolithography to nano-manufacturing. <i>Optics Communications</i> , 2017, 404, 62-72.	2.1	17
71	Helicity Multiplexed Spin-Orbit Interaction in Metasurface for Colorized and Encrypted Holographic Display. <i>Annalen Der Physik</i> , 2017, 529, 1700248.	2.4	17
72	Introducing dipole-like resonance into magnetic resonance to realize simultaneous drop in transmission and reflection at terahertz frequency. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	16

#	ARTICLE	IF	CITATIONS
73	High-Efficiency and Tunable Circular Polarization Beam Splitting with a Liquid-Filled All-Metallic Catenary Meta-Mirror. <i>Advanced Materials Technologies</i> , 2019, 4, 1900334.	5.8	16
74	Full Stokes Polarimetry for Wide-Angle Incident Light. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000044.	2.4	14
75	An Ultrabroadband THz Absorber Based on Structured Doped Silicon With Antireflection Techniques. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10.	2.0	13
76	A Tunable Metasurface Deflector Based on MIM Waveguide Filled with Phase-Change Material. <i>Plasmonics</i> , 2019, 14, 1735-1741.	3.4	13
77	Metasurface spatiotemporal dynamics and asymmetric photonic spin-orbit interactions mediated vector-polarization optical chaos. <i>Physical Review Research</i> , 2021, 3, .	3.6	13
78	Functional metasurfaces based on metallic and dielectric subwavelength slits and stripes array. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 144003.	1.8	11
79	Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. <i>IEEE Photonics Journal</i> , 2020, 12, 1-10.	2.0	11
80	Ultra-wideband manipulation of electromagnetic waves by bilayer scattering engineered gradient metasurface. <i>RSC Advances</i> , 2018, 8, 13061-13066.	3.6	10
81	Flexible and Tunable Dielectric Color Meta-hologram. <i>Plasmonics</i> , 2020, 15, 217-223.	3.4	10
82	Inversion Symmetry Breaking in Lithium Intercalated Graphitic Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28561-28567.	8.0	9
83	Electromagnetic Architectures: Structures, Properties, Functions and Their Intrinsic Relationships in Subwavelength Optics and Electromagnetics. <i>Advanced Photonics Research</i> , 2021, 2, 2100023.	3.6	9
84	All-metallic high-efficiency generalized Pancharatnam-Berry phase metasurface with chiral meta-atoms. <i>Nanophotonics</i> , 2022, 11, 1961-1968.	6.0	9
85	Multispectral Scattering Imaging Based on Metasurface Diffuser and Deep Learning. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	2.4	8
86	Tunable Optical Hooks in the Visible Band Based on Ultra-Thin Metalenses. <i>Annalen Der Physik</i> , 2020, 532, 1900396.	2.4	7
87	Ultrathin Planar Microlens Arrays Based on Geometric Metasurface. <i>Annalen Der Physik</i> , 2018, 530, 1700326.	2.4	6
88	Refined Model for Plasmon Ruler Based on Catenary-Shaped Optical Fields. <i>Plasmonics</i> , 2019, 14, 845-850.	3.4	6
89	Wide Field-of-view and Broadband Terahertz Beam Steering Based on Gap Plasmon Geodesic Antennas. <i>Scientific Reports</i> , 2017, 7, 41642.	3.3	5
90	Wavelength-Dependent Three-Dimensional Volumetric Optical Vortices Modulation Based on Metasurface. <i>IEEE Photonics Journal</i> , 2018, 10, 1-8.	2.0	5

#	ARTICLE	IF	CITATIONS
91	Photonic Devices: Plasmonic Metasurfaces for Switchable Photonic Spin-Orbit Interactions Based on Phase Change Materials (Adv. Sci. 10/2018). Advanced Science, 2018, 5, 1870063.	11.2	5
92	Directional Coupling and Spin Routing in Catenary-Shaped SOI Waveguide. IEEE Photonics Technology Letters, 2019, 31, 415-418.	2.5	5
93	Breaking the Cut-Off Wavelength Limit of GaTe through Self-Driven Oxygen Intercalation in Air. Advanced Science, 2022, 9, e2103429.	11.2	5
94	Improvement of Focusing Efficiency of Plasmonic Planar Lens by Oil Immersion. Plasmonics, 2015, 10, 539-545.	3.4	4
95	Metasurfaces: All-Dielectric Metasurfaces for Simultaneous Giant Circular Asymmetric Transmission and Wavefront Shaping Based on Asymmetric Photonic Spin-Orbit Interactions (Adv. Funct. Mater.) Tj ETQq1 1 0.4784314 4gBT /Over	11.2	5
96	Dual-wavelength multilevel diffractive lenses for near-infrared imaging. Journal Physics D: Applied Physics, 2021, 54, 175109.	2.8	4
97	Quasi-Continuous Metasurface Beam Splitters Enabled by Vector Iterative Fourier Transform Algorithm. Materials, 2021, 14, 1022.	2.9	3
98	Meta-holograms based on evanescent waves for encryption. RSC Advances, 2017, 7, 53611-53616.	3.6	2
99	Catenary Optics: Catenary Electromagnetics for Ultra-Broadband Lightweight Absorbers and Large-Scale Flat Antennas (Adv. Sci. 7/2019). Advanced Science, 2019, 6, 1970038.	11.2	2
100	Bloch Surface Wave Assisted Structured Illumination Microscopy for Sub-100Ånm Resolution. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	2
101	Bulk plasmon polariton based structured illumination microscopy by utilizing hyperbolic metamaterials. Journal Physics D: Applied Physics, 2021, 54, 285103.	2.8	2
102	High-efficiency mid-infrared catenary metasurface for chiral spectrometer. , 2021, , .		2
103	Waveguide evanescent waves based structured illumination microscopy with compact structure and flexible design. Journal Physics D: Applied Physics, 2021, 54, 215101.	2.8	1
104	Generation of A Space-Variant Vector Beam with Catenary-Shaped Polarization States. Materials, 2022, 15, 2940.	2.9	1
105	Multi-Wavelength Super-Resolution Imaging by Structured Illumination of Bloch Surface Waves. IEEE Photonics Journal, 2022, 14, 1-7.	2.0	1
106	Frequency Controllable Metamaterial Absorber by an Added Dielectric Layer. , 2011, , .		0
107	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). Advanced Materials Technologies, 2019, 4, 1970012.	5.8	0
108	Planar Hyperspectral Imager With Small Smile and Keystone Based on Two Metasurfaces. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	0