

Xiong Li

List of Publications by Year in descending order

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papers

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docs citations

112
times ranked

3672
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Multispectral Scattering Imaging Based on Metasurface Diffuser and Deep Learning. Physica Status Solidi - Rapid Research Letters, 2022, 16, . | 2.4 | 8 |
| 2 | Planar Hyperspectral Imager With Small Smile and Keystone Based on Two Metasurfaces. IEEE Photonics Journal, 2022, 14, 1-8. | 2.0 | 0 |
| 3 | Emerging Long-Range Order from a Freeform Disordered Metasurface. Advanced Materials, 2022, 34, e2108709. | 21.0 | 33 |
| 4 | All-metallic high-efficiency generalized Pancharatnamâ€“Berry phase metasurface with chiral meta-atoms. Nanophotonics, 2022, 11, 1961-1968. | 6.0 | 9 |
| 5 | Synthetic vector optical fields with spatial and temporal tunability. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1. | 5.1 | 25 |
| 6 | Breaking the Cut-Off Wavelength Limit of GaTe through Self-Driven Oxygen Intercalation in Air. Advanced Science, 2022, 9, e2103429. | 11.2 | 5 |
| 7 | Generation of A Space-Variant Vector Beam with Catenary-Shaped Polarization States. Materials, 2022, 15, 2940. | 2.9 | 1 |
| 8 | Designing high-efficiency extended depth-of-focus metalens via topology-shape optimization. Nanophotonics, 2022, 11, 2967-2975. | 6.0 | 19 |
| 9 | Multi-Wavelength Super-Resolution Imaging by Structured Illumination of Bloch Surface Waves. IEEE Photonics Journal, 2022, 14, 1-7. | 2.0 | 1 |
| 10 | Monolithicâ€“Integrated Multiplexed Devices Based on Metasurfaceâ€“Driven Guided Waves. Advanced Theory and Simulations, 2021, 4, 2000239. | 2.8 | 22 |
| 11 | Quasi-Continuous Metasurface Beam Splitters Enabled by Vector Iterative Fourier Transform Algorithm. Materials, 2021, 14, 1022. | 2.9 | 3 |
| 12 | Angular-multiplexed multichannel optical vortex arrays generators based on geometric metasurface. IScience, 2021, 24, 102107. | 4.1 | 23 |
| 13 | Dual-wavelength multilevel diffractive lenses for near-infrared imaging. Journal Physics D: Applied Physics, 2021, 54, 175109. | 2.8 | 4 |
| 14 | Bloch Surface Wave Assisted Structured Illumination Microscopy for Sub-100Ånm Resolution. IEEE Photonics Journal, 2021, 13, 1-9. | 2.0 | 2 |
| 15 | Extremeâ€“Angle Silicon Infrared Optics Enabled by Streamlined Surfaces. Advanced Materials, 2021, 33, e2008157. | 21.0 | 84 |
| 16 | Metasurface spatiotemporal dynamics and asymmetric photonic spin-orbit interactions mediated vector-polarization optical chaos. Physical Review Research, 2021, 3, . | 3.6 | 13 |
| 17 | Waveguide evanescent waves based structured illumination microscopy with compact structure and flexible design. Journal Physics D: Applied Physics, 2021, 54, 215101. | 2.8 | 1 |
| 18 | Bulk plasmon polariton based structured illumination microscopy by utilizing hyperbolic metamaterials. Journal Physics D: Applied Physics, 2021, 54, 285103. | 2.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Generalized Pancharatnam-Berry Phase in Rotationally Symmetric Meta-Atoms. <i>Physical Review Letters</i> , 2021, 126, 183902. | 7.8 | 95 |
| 20 | 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 |
| 21 | High-efficiency mid-infrared catenary metasurface for chiral spectrometer. , 2021, , . | | 2 |
| 22 | Flexible and Tunable Dielectric Color Meta-hologram. <i>Plasmonics</i> , 2020, 15, 217-223. | 3.4 | 10 |
| 23 | Plasmonic lithography for the fabrication of surface nanostructures with a feature size down to 9 nm. <i>Nanoscale</i> , 2020, 12, 2415-2421. | 5.6 | 31 |
| 24 | Tunable Optical Hooks in the Visible Band Based on Ultra-thin Metalenses. <i>Annalen Der Physik</i> , 2020, 532, 1900396. | 2.4 | 7 |
| 25 | All-metallic geometric metasurfaces for broadband and high-efficiency wavefront manipulation. <i>Nanophotonics</i> , 2020, 9, 3209-3215. | 6.0 | 28 |
| 26 | Catenary Functions Meet Electromagnetic Waves: Opportunities and Promises. <i>Advanced Optical Materials</i> , 2020, 8, 2001194. | 7.3 | 42 |
| 27 | Multistate Switching of Photonic Angular Momentum Coupling in Phase-Change Metadevices. <i>Advanced Materials</i> , 2020, 32, e1908194. | 21.0 | 88 |
| 28 | Inversion Symmetry Breaking in Lithium Intercalated Graphitic Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28561-28567. | 8.0 | 9 |
| 29 | Simultaneous Full-color Printing and Holography Enabled by Centimeter-scale Plasmonic Metasurfaces. <i>Advanced Science</i> , 2020, 7, 1903156. | 11.2 | 74 |
| 30 | Dual-functional Metasurface toward Giant Linear and Circular Dichroism. <i>Advanced Optical Materials</i> , 2020, 8, 1902061. | 7.3 | 24 |
| 31 | Crosstalk reduction of integrated optical waveguides with nonuniform subwavelength silicon strips. <i>Scientific Reports</i> , 2020, 10, 4491. | 3.3 | 21 |
| 32 | Full Stokes Polarimetry for Wide-angle Incident Light. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000044. | 2.4 | 14 |
| 33 | High-Performance Multilayer Radiative Cooling Films Designed with Flexible Hybrid Optimization Strategy. <i>Materials</i> , 2020, 13, 2885. | 2.9 | 21 |
| 34 | 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 |
| 35 | Broadband and high-efficiency accelerating beam generation by dielectric catenary metasurfaces. <i>Nanophotonics</i> , 2020, 9, 2829-2837. | 6.0 | 23 |
| 36 | Off-axis multi-wavelength dispersion controlling metalens for multi-color imaging. <i>Opto-Electronic Advances</i> , 2020, 3, 19000501-19000507. | 13.3 | 85 |

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|----|--|------|-----------|
| 37 | 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 |
| 38 | Experimental demonstration of a continuous varifocal metalens with large zoom range and high imaging resolution. <i>Applied Physics Letters</i> , 2019, 115, . | 3.3 | 29 |
| 39 | Spoof Plasmonic Metasurfaces with Catenary Dispersion for Two-Dimensional Wide-Angle Focusing and Imaging. <i>IScience</i> , 2019, 21, 145-156. | 4.1 | 41 |
| 40 | Asymmetric Transmission and Wavefront Manipulation toward Dual-Frequency Meta-Holograms. <i>ACS Photonics</i> , 2019, 6, 1541-1546. | 6.6 | 47 |
| 41 | Polarization-Controlled Broadband Accelerating Beams Generation by Single Catenary-Shaped Metasurface. <i>Advanced Optical Materials</i> , 2019, 7, 1900503. | 7.3 | 42 |
| 42 | A Tunable Metasurface Deflector Based on MIM Waveguide Filled with Phase-Change Material. <i>Plasmonics</i> , 2019, 14, 1735-1741. | 3.4 | 13 |
| 43 | 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 |
| 44 | Midinfrared real-time polarization imaging with all-dielectric metasurfaces. <i>Applied Physics Letters</i> , 2019, 114, . | 3.3 | 60 |
| 45 | Methodologies for On-Demand Dispersion Engineering of Waves in Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801376. | 7.3 | 23 |
| 46 | Catenary Optics: Heat Resisting Metallic Meta-Skin for Simultaneous Microwave Broadband Scattering and Infrared Invisibility Based on Catenary Optical Field (<i>Adv. Mater. Technol.</i> 2/2019). <i>Advanced Materials Technologies</i> , 2019, 4, 1970012. | 5.8 | 0 |
| 47 | Colorful Metahologram with Independently Controlled Images in Transmission and Reflection Spaces. <i>Advanced Functional Materials</i> , 2019, 29, 1809145. | 14.9 | 65 |
| 48 | Catenary Optics: Catenary Electromagnetics for Ultra-Broadband Lightweight Absorbers and Large-Scale Flat Antennas (<i>Adv. Sci.</i> 7/2019). <i>Advanced Science</i> , 2019, 6, 1970038. | 11.2 | 2 |
| 49 | Heat Resisting Metallic Meta-Skin for Simultaneous Microwave Broadband Scattering and Infrared Invisibility Based on Catenary Optical Field. <i>Advanced Materials Technologies</i> , 2019, 4, 1800612. | 5.8 | 32 |
| 50 | Directional Coupling and Spin Routing in Catenary-Shaped SOI Waveguide. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 415-418. | 2.5 | 5 |
| 51 | Generation of Polarization-Sensitive Modulated Optical Vortices with All-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2019, 6, 628-633. | 6.6 | 24 |
| 52 | Broadband Functional Metasurfaces: Achieving Nonlinear Phase Generation toward Achromatic Surface Cloaking and Lensing. <i>Advanced Optical Materials</i> , 2019, 7, 1801480. | 7.3 | 43 |
| 53 | Refined Model for Plasmon Ruler Based on Catenary-Shaped Optical Fields. <i>Plasmonics</i> , 2019, 14, 845-850. | 3.4 | 6 |
| 54 | Ultra-wideband manipulation of electromagnetic waves by bilayer scattering engineered gradient metasurface. <i>RSC Advances</i> , 2018, 8, 13061-13066. | 3.6 | 10 |

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|----|---|------|-----------|
| 55 | Plasmonic Metasurfaces for Simultaneous Thermal Infrared Invisibility and Holographic Illusion. <i>Advanced Functional Materials</i> , 2018, 28, 1706673. | 14.9 | 151 |
| 56 | 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 |
| 57 | Dispersion engineering in metamaterials and metasurfaces. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 054002. | 2.8 | 20 |
| 58 | 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 |
| 59 | Broadband metamaterial as an "invisible" radiative cooling coat. <i>Optics Communications</i> , 2018, 407, 204-207. | 2.1 | 61 |
| 60 | Color display and encryption with a plasmonic polarizing metamirror. <i>Nanophotonics</i> , 2018, 7, 323-331. | 6.0 | 63 |
| 61 | Ultrathin Planar Microlens Arrays Based on Geometric Metasurface. <i>Annalen Der Physik</i> , 2018, 530, 1700326. | 2.4 | 6 |
| 62 | Wavelength-Dependent Three-Dimensional Volumetric Optical Vortices Modulation Based on Metasurface. <i>IEEE Photonics Journal</i> , 2018, 10, 1-8. | 2.0 | 5 |
| 63 | An Ultrabroadband THz Absorber Based on Structured Doped Silicon With Antireflection Techniques. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10. | 2.0 | 13 |
| 64 | Photonic Devices: Plasmonic Metasurfaces for Switchable Photonic Spin-Orbit Interactions Based on Phase Change Materials (<i>Adv. Sci.</i> 10/2018). <i>Advanced Science</i> , 2018, 5, 1870063. | 11.2 | 5 |
| 65 | Achromatic Broadband Super-Resolution Imaging by Super-Oscillatory Metasurface. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800064. | 8.7 | 72 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | Actively Tunable Structural Color Rendering with Tensile Substrate. <i>Advanced Optical Materials</i> , 2017, 5, 1600829. | 7.3 | 90 |
| 70 | Merging plasmonics and metamaterials by two-dimensional subwavelength structures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4361-4378. | 5.5 | 75 |
| 71 | Ultrahigh-capacity dynamic holographic displays via anisotropic nanoholes. <i>Nanoscale</i> , 2017, 9, 1409-1415. | 5.6 | 44 |
| 72 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | 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 047843144gBT /Over | 16.6 | 132 |
| 74 | Meta-holograms based on evanescent waves for encryption. RSC Advances, 2017, 7, 53611-53616. | 3.6 | 2 |
| 75 | Broadband spin Hall effect of light in single nanoapertures. Light: Science and Applications, 2017, 6, e16276-e16276. | 16.6 | 132 |
| 76 | Pushing the plasmonic imaging nanolithography to nano-manufacturing. Optics Communications, 2017, 404, 62-72. | 2.1 | 17 |
| 77 | Orbital Angular Momentum Multiplexing and Demultiplexing by a Single Metasurface. Advanced Optical Materials, 2017, 5, 1600502. | 7.3 | 150 |
| 78 | Multi-Channel Vortex Beam Generation by Simultaneous Amplitude and Phase Modulation with Two-Dimensional Metamaterial. Advanced Materials Technologies, 2017, 2, 1600201. | 5.8 | 85 |
| 79 | Super-resolution imaging with a Bessel lens realized by a geometric metasurface. Optics Express, 2017, 25, 13933. | 3.4 | 40 |
| 80 | Dispersion controlling meta-lens at visible frequency. Optics Express, 2017, 25, 21419. | 3.4 | 78 |
| 81 | Nanoapertures with ordered rotations: symmetry transformation and wide-angle flat lensing. Optics Express, 2017, 25, 31471. | 3.4 | 114 |
| 82 | Meta-Chirality: Fundamentals, Construction and Applications. Nanomaterials, 2017, 7, 116. | 4.1 | 49 |
| 83 | Helicity Multiplexed Spin-Orbit Interaction in Metasurface for Colorized and Encrypted Holographic Display. Annalen Der Physik, 2017, 529, 1700248. | 2.4 | 17 |
| 84 | Catenary nanostructures as compact Bessel beam generators. Scientific Reports, 2016, 6, 20524. | 3.3 | 83 |
| 85 | Metasurface-based broadband hologram with high tolerance to fabrication errors. Scientific Reports, 2016, 6, 19856. | 3.3 | 44 |
| 86 | Wavelength-selective orbital angular momentum generation based on a plasmonic metasurface. Nanoscale, 2016, 8, 12267-12271. | 5.6 | 20 |
| 87 | Merging Geometric Phase and Plasmon Retardation Phase in Continuously Shaped Metasurfaces for Arbitrary Orbital Angular Momentum Generation. ACS Photonics, 2016, 3, 2022-2029. | 6.6 | 189 |
| 88 | Multicolor 3D meta-holography by broadband plasmonic modulation. Science Advances, 2016, 2, e1601102. | 10.3 | 481 |
| 89 | Achromatic flat optical components via compensation between structure and material dispersions. Scientific Reports, 2016, 6, 19885. | 3.3 | 96 |
| 90 | Generation and detection of orbital angular momentum via metasurface. Scientific Reports, 2016, 6, 24286. | 3.3 | 86 |

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|-----|--|------|-----------|
| 91 | Quasi-continuous metasurface for ultra-broadband and polarization-controlled electromagnetic beam deflection. <i>Scientific Reports</i> , 2016, 5, 17733. | 3.3 | 45 |
| 92 | Dynamic Control of the Extraordinary Optical Scattering in Semicontinuous 2D Metamaterials. <i>Advanced Optical Materials</i> , 2016, 4, 659-663. | 7.3 | 27 |
| 93 | Laser Linewidth Measurement Based on Amplitude Difference Comparison of Coherent Envelope. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 759-762. | 2.5 | 55 |
| 94 | Multispectral optical metasurfaces enabled by achromatic phase transition. <i>Scientific Reports</i> , 2015, 5, 15781. | 3.3 | 100 |
| 95 | Ultrabroadband superoscillatory lens composed by plasmonic metasurfaces for subdiffraction light focusing. <i>Laser and Photonics Reviews</i> , 2015, 9, 713-719. | 8.7 | 199 |
| 96 | A planar chiral meta-surface for optical vortex generation and focusing. <i>Scientific Reports</i> , 2015, 5, 10365. | 3.3 | 164 |
| 97 | Spatially and spectrally engineered spin-orbit interaction for achromatic virtual shaping. <i>Scientific Reports</i> , 2015, 5, 9822. | 3.3 | 130 |
| 98 | Near-field collimation of light carrying orbital angular momentum with bullâ€™s-eye-assisted plasmonic coaxial waveguides. <i>Scientific Reports</i> , 2015, 5, 12108. | 3.3 | 23 |
| 99 | Improvement of Focusing Efficiency of Plasmonic Planar Lens by Oil Immersion. <i>Plasmonics</i> , 2015, 10, 539-545. | 3.4 | 4 |
| 100 | Engineering the Phase Front of Light with Phase-Change Material Based Planar lenses. <i>Scientific Reports</i> , 2015, 5, 8660. | 3.3 | 114 |
| 101 | Tight focusing of radially and azimuthally polarized light with plasmonic metalens. <i>Optics Communications</i> , 2015, 356, 445-450. | 2.1 | 21 |
| 102 | Catenary optics for achromatic generation of perfect optical angular momentum. <i>Science Advances</i> , 2015, 1, e1500396. | 10.3 | 539 |
| 103 | Fabrication of anisotropically arrayed nano-slots metasurfaces using reflective plasmonic lithography. <i>Nanoscale</i> , 2015, 7, 18805-18812. | 5.6 | 74 |
| 104 | Super-Resolution Long-Depth Focusing by Radially Polarized Light Irradiation Through Plasmonic Lens in Optical Meso-field. <i>Plasmonics</i> , 2014, 9, 55-60. | 3.4 | 28 |
| 105 | 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 |
| 106 | Tunable bandwidth of band-stop filter by metamaterial cell coupling in optical frequency. <i>Optics Express</i> , 2011, 19, 5283. | 3.4 | 49 |
| 107 | Frequency Controllable Metamaterial Absorber by an Added Dielectric Layer. , 2011, , . | | 0 |
| 108 | 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 |