

Xiaowei Li

List of Publications by Year in descending order

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85
papers

2,815
citations

185998

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197535

49
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all docs

85
docs citations

85
times ranked

2245
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlated triple hybrid amplitude and phase holographic encryption based on a metasurface. <i>Photonics Research</i> , 2022, 10, 678.	3.4	23
2	Fast-Response Oxygen Optical Fiber Sensor based on $\text{PEA}_{2\text{Snl}4}$ Perovskite with Extremely Low Limit of Detection. <i>Advanced Science</i> , 2022, 9, e2104708.	5.6	20
3	Morphology adjustable microlens array fabricated by single spatially modulated femtosecond pulse. <i>Nanophotonics</i> , 2022, 11, 571-581.	2.9	17
4	Rotational Multiplexing Method Based on Cascaded Metasurface Holography. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	25
5	Controllable Polarization and Diffraction Modulated Multi-Functionality Based on Metasurface. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	17
6	Magnetically controllable holographic encryption based on a magneto-optical metasurface. <i>Optics Express</i> , 2022, 30, 8366.	1.7	3
7	Full-Stokes polarization transformations and time sequence metasurface holographic display. <i>Photonics Research</i> , 2022, 10, 1031.	3.4	23
8	High-Uniformity Submicron Gratings with Tunable Periods Fabricated through Femtosecond Laser-Assisted Molding Technology for Deformation Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16911-16919.	4.0	13
9	Alternate morphology evolution of bulge structures on thin gold films induced by internal stress distribution adjusted by femtosecond laser double-pulse. <i>Optics and Laser Technology</i> , 2022, 151, 108035.	2.2	1
10	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
11	Single-shot phase retrieval based on anisotropic metasurface. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
12	Preliminary Exploration of a Laser-Based Surface Microtexturing Strategy for Improving the Wear Resistance of Dentin: An <i>In Vitro</i> Study. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2022, 40, 355-361.	0.7	0
13	High efficiency and scalable fabrication of fresnel zone plates using holographic femtosecond pulses. <i>Nanophotonics</i> , 2022, 11, 3081-3091.	2.9	2
14	Self-Aligned Laser-Induced Periodic Surface Structures for Large-Area Controllable Nanopatterning. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	23
15	Ultra-dense moving cascaded metasurface holography by using a physics-driven neural network. <i>Optics Express</i> , 2022, 30, 24285.	1.7	7
16	High-efficiency fabrication of computer-generated holograms in silica glass using a femtosecond Bessel beam. <i>Optics and Laser Technology</i> , 2021, 135, 106729.	2.2	7
17	Fabrication of microlenses with continuously variable numerical aperture through a temporally shaped femtosecond laser. <i>Optics Express</i> , 2021, 29, 4596.	1.7	15
18	Functionalization of freeform curved surfaces by shaped femtosecond laser pulses in the propagation axis. <i>Optics Express</i> , 2021, 29, 5487.	1.7	9

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19	Magnetically controllable metasurface and its application. <i>Frontiers of Optoelectronics</i> , 2021, 14, 154-169.	1.9	15
20	Polarization and Holography Recording in Real and k -Space Based on Dielectric Metasurface. <i>Advanced Functional Materials</i> , 2021, 31, 2100406.	7.8	43
21	Generation of Airy beam arrays in real and k spaces based on a dielectric metasurface. <i>Optics Express</i> , 2021, 29, 18781.	1.7	21
22	Dynamic Display of Full-Stokes Vectorial Holography Based on Metasurfaces. <i>ACS Photonics</i> , 2021, 8, 1746-1753.	3.2	29
23	Fabrication of nanogap structures through spatially shaped femtosecond laser modification with the assistance of wet chemical etching. <i>Optics Letters</i> , 2021, 46, 3560.	1.7	1
24	A deep learning approach for trustworthy high-fidelity computational holographic orbital angular momentum communication. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	17
25	Controllable Photonic Structures on Silicon-on-Insulator Devices Fabricated Using Femtosecond Laser Lithography. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43622-43631.	4.0	13
26	Compact magnetic field sensor based on plasmonic fiber-tip. <i>Optics Express</i> , 2021, 29, 38904.	1.7	9
27	Thermally Reconfigurable Hologram Fabricated by Spatially Modulated Femtosecond Pulses on a Heat-Shrinkable Shape Memory Polymer for Holographic Multiplexing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51736-51745.	4.0	16
28	Imaging-based optical barcoding for relative humidity sensing based on meta-tip. <i>Nanophotonics</i> , 2021, 11, 111-118.	2.9	7
29	Quantitatively Correlated Amplitude Holography Based on Photon Sieves. <i>Advanced Optical Materials</i> , 2020, 8, 1901169.	3.6	45
30	Switchable active phase modulation and holography encryption based on hybrid metasurfaces. <i>Nanophotonics</i> , 2020, 9, 905-912.	2.9	34
31	Shaped femtosecond laser induced photoreduction for highly controllable Au nanoparticles based on localized field enhancement and their SERS applications. <i>Nanophotonics</i> , 2020, 9, 691-702.	2.9	26
32	Polarization-Encrypted Orbital Angular Momentum Multiplexed Metasurface Holography. <i>ACS Nano</i> , 2020, 14, 5553-5559.	7.3	155
33	Polarization Multiplexing Terahertz Metasurfaces through Spatial Femtosecond Laser Shaping Fabrication. <i>Advanced Optical Materials</i> , 2020, 8, 2000136.	3.6	23
34	Controllable photon energy deposition efficiency in laser processing of fused silica by temporally shaped femtosecond pulse: Experimental and theoretical study. <i>Optics and Laser Technology</i> , 2020, 128, 106265.	2.2	1
35	All-dielectric bifocal isotropic metalens for a single-shot hologram generation device. <i>Optics Express</i> , 2020, 28, 21549.	1.7	27
36	Creating a three-dimensional surface with antireflective properties by using femtosecond-laser Bessel-beam-assisted thermal oxidation. <i>Optics Letters</i> , 2020, 45, 2989.	1.7	12

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37	High-quality micropattern printing by interlacing-pattern holographic femtosecond pulses. <i>Nanophotonics</i> , 2020, 9, 2895-2904.	2.9	10
38	Controllable Formation of Si Nanostructures Based on Quasi-Plasmonic Planar Nanostructures Formed by Annular-Shaped Femtosecond Laser Pulse. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	1.0	4
39	Four-Wave Mixing Holographic Multiplexing Based on Nonlinear Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1900782.	3.6	30
40	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
41	Flash Ablation of Tunable and Deep-Subwavelength Nanogap by Using a Spatially Modulated Femtosecond Laser Pulse for Plasmonic Application. <i>ACS Applied Nano Materials</i> , 2019, 2, 4933-4941.	2.4	8
42	Continuous control of microlens morphology on Si based on the polarization-dependent femtosecond laser induced periodic surface structures modulation. <i>Optics and Laser Technology</i> , 2019, 119, 105629.	2.2	8
43	High-efficiency Bessel beam array generation by Huygens metasurfaces. <i>Nanophotonics</i> , 2019, 8, 1079-1085.	2.9	53
44	Simultaneous Spectral and Spatial Modulation for Color Printing and Holography Using All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2019, 19, 8964-8971.	4.5	103
45	Hybrid superhydrophilic-superhydrophobic micro/nanostructures fabricated by femtosecond laser-induced forward transfer for sub-femtomolar Raman detection. <i>Microsystems and Nanoengineering</i> , 2019, 5, 48.	3.4	32
46	Micro/nano-structures-enhanced triboelectric nanogenerators by femtosecond laser direct writing. <i>Nano Energy</i> , 2019, 62, 638-644.	8.2	121
47	Fabrication of highly homogeneous and controllable nanogratings on silicon via chemical etching-assisted femtosecond laser modification. <i>Nanophotonics</i> , 2019, 8, 869-878.	2.9	47
48	Manipulation of LIPSS orientation on silicon surfaces using orthogonally polarized femtosecond laser double-pulse trains. <i>Optics Express</i> , 2019, 27, 9782.	1.7	31
49	Chemical etching mechanisms and crater morphologies pre-irradiated by temporally decreasing pulse trains of femtosecond laser. <i>Applied Surface Science</i> , 2019, 469, 44-49.	3.1	8
50	Dynamic control of mode modulation and spatial multiplexing using hybrid metasurfaces. <i>Optics Express</i> , 2019, 27, 18740.	1.7	13
51	Enhancement and blueshift of high-frequency laser-induced periodic surface structures with preformed nanoscale surface roughness. <i>Optics Express</i> , 2019, 27, 19973.	1.7	7
52	Near-field plasmonic beam engineering with complex amplitude modulation based on metasurface. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	30
53	Optical Field Enhancement in Au Nanoparticle-Decorated Nanorod Arrays Prepared by Femtosecond Laser and Their Tunable Surface-Enhanced Raman Scattering Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1297-1305.	4.0	55
54	Selective Diffraction with Complex Amplitude Modulation by Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1701181.	3.6	53

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55	Multichannel vectorial holographic display and encryption. <i>Light: Science and Applications</i> , 2018, 7, 95.	7.7	291
56	Flexible Gray-Scale Surface Patterning Through Spatiotemporal-Interference-Based Femtosecond Laser Shaping. <i>Advanced Optical Materials</i> , 2018, 6, 1801021.	3.6	9
57	High-throughput microchannel fabrication in fused silica by temporally shaped femtosecond laser Bessel-beam-assisted chemical etching. <i>Optics Letters</i> , 2018, 43, 98.	1.7	72
58	Sharp-featured Au@Ag core/shell nanocuboid synthesis and the label-free ultrasensitive SERS detection of protein single-point mutations. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1720-1724.	3.2	6
59	Nanoscale Polarization Manipulation and Encryption Based on Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1800490.	3.6	56
60	Femtosecond laser induced concentric semi-circular periodic surface structures on silicon based on the quasi-plasmonic annular nanostructure. <i>Nanotechnology</i> , 2018, 29, 305301.	1.3	9
61	Non-diffraction-length, tunable, Bessel-like beams generation by spatially shaping a femtosecond laser beam for high-aspect-ratio micro-hole drilling. <i>Optics Express</i> , 2018, 26, 21960.	1.7	29
62	Cylindrical shockwave-induced compression mechanism in femtosecond laser Bessel pulse micro-drilling of PMMA. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	25
63	Controllable Si (100) micro/nanostructures by chemical-etching-assisted femtosecond laser single-pulse irradiation. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	13
64	Volumetric Generation of Optical Vortices with Metasurfaces. <i>ACS Photonics</i> , 2017, 4, 338-346.	3.2	108
65	Low-adhesive superhydrophobic surface-enhanced Raman spectroscopy substrate fabricated by femtosecond laser ablation for ultratrace molecular detection. <i>Journal of Materials Chemistry B</i> , 2017, 5, 777-784.	2.9	63
66	High-efficiency broadband polarization converter based on $\lambda/4$ -shaped metasurface. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 454001.	1.3	9
67	Broadband Multiplane Holography Based on Plasmonic Metasurface. <i>Advanced Optical Materials</i> , 2017, 5, 1700434.	3.6	74
68	Controllable Plasmonic Nanostructures induced by Dual-wavelength Femtosecond Laser Irradiation. <i>Scientific Reports</i> , 2017, 7, 17333.	1.6	17
69	Nanoscale material redistribution induced by spatially modulated femtosecond laser pulses for flexible high-efficiency surface patterning. <i>Optics Express</i> , 2017, 25, 31431.	1.7	12
70	Surface micro/nanostructure evolution of Au-Ag alloy nanoplates: Synthesis, simulation, plasmonic photothermal and surface-enhanced Raman scattering applications. <i>Nano Research</i> , 2016, 9, 876-885.	5.8	43
71	High-aspect-ratio, high-quality microdrilling by electron density control using a femtosecond laser Bessel beam. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	31
72	Mechanism and elimination of bending effect in femtosecond laser deep-hole drilling. <i>Optics Express</i> , 2015, 23, 27853.	1.7	31

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73	Femtosecond laser induced tunable surface transformations on (111) Si aided by square grids diffraction. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	7
74	Mask-Free Patterning of High-Conductivity Metal Nanowires in Open Air by Spatially Modulated Femtosecond Laser Pulses. <i>Advanced Materials</i> , 2015, 27, 6238-6243.	11.1	73
75	High aspect ratio, high-quality microholes in PMMA: a comparison between femtosecond laser drilling in air and in vacuum. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 61-68.	1.1	41
76	Broadband Hybrid Holographic Multiplexing with Geometric Metasurfaces. <i>Advanced Materials</i> , 2015, 27, 6444-6449.	11.1	177
77	Femtosecond laser-induced cross-periodic structures on a crystalline silicon surface under low pulse number irradiation. <i>Applied Surface Science</i> , 2015, 326, 216-221.	3.1	20
78	Polarization-dependent elliptical crater morphologies formed on a silicon surface by single-shot femtosecond laser ablation. <i>Applied Optics</i> , 2014, 53, 6742.	0.9	5
79	Anisotropy modulations of femtosecond laser pulse induced periodic surface structures on silicon by adjusting double pulse delay. <i>Optics Express</i> , 2014, 22, 15820.	1.7	18
80	Crystal orientation dependence of femtosecond laser-induced periodic surface structure on (100) silicon. <i>Optics Letters</i> , 2014, 39, 3114.	1.7	24
81	Continuous modulations of femtosecond laser-induced periodic surface structures and scanned line-widths on silicon by polarization changes. <i>Optics Express</i> , 2013, 21, 15505.	1.7	64
82	Directional excitation of SPP in metallic nanoslits and its functional application. , 2012, , .		0
83	Integrated plasmonic semi-circular launcher for dielectric-loaded surface plasmon-polariton waveguide. <i>Optics Express</i> , 2011, 19, 6541.	1.7	22
84	Experimental demonstration of tunable directional excitation of surface plasmon polaritons with a subwavelength metallic double slit. <i>Applied Physics Letters</i> , 2011, 98, 251109.	1.5	69
85	Plasmonic leak-free focusing lens under radially polarized illumination. <i>Journal of Optics (United Kingdom)</i> 11 0784314	1.0	5