

Xiangping 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.

130
papers

3,998
citations

34
h-index

60
g-index

167
ext. papers

5,078
ext. citations

7.6
avg, IF

5.68
L-index

#	Paper	IF	Citations
130	Observation of localized magnetic plasmon skyrmions.. <i>Nature Communications</i> , 2022 , 13, 8	17.4	11
129	Rayleigh anomaly-enabled mode hybridization in gold nanohole arrays by scalable colloidal lithography for highly-sensitive biosensing. <i>Nanophotonics</i> , 2022 , 11, 507-517	6.3	1
128	Perfect diffractive circular metagrating for Bessel beam transformation.. <i>Optics Letters</i> , 2022 , 47, 1375-1378	6.3	1
127	Multi-freedom metasurface empowered vectorial holography. <i>Nanophotonics</i> , 2022 ,	6.3	2
126	Ultra-secure optical encryption based on tightly focused perfect optical vortex beams. <i>Nanophotonics</i> , 2022 ,	6.3	3
125	Cylindrical vector beams reveal radiationless anapole condition in a resonant state. <i>Opto-Electronic Advances</i> , 2022 , 210014-210014	6.5	3
124	Subwavelength generation of orientation-unlimited energy flow in 4 π microscopy.. <i>Optics Express</i> , 2022 , 30, 138-145	3.3	0
123	Etching-free high-throughput intersectional nanofabrication of diverse optical nanoantennas for nanoscale light manipulation.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 950-959	9.3	1
122	Near-perfect fidelity polarization-encoded multilayer optical data storage based on aligned gold nanorods. <i>Opto-Electronic Advances</i> , 2021 , 4, 210002-210002	6.5	5
121	Nanointerferometric Discrimination of the SpinOrbit Hall Effect. <i>ACS Photonics</i> , 2021 , 8, 1169-1174	6.3	2
120	Displacement-mediated bound states in the continuum in all-dielectric superlattice metasurfaces. <i>Photonix</i> , 2021 , 2,	19	9
119	Environmentally robust immersion supercritical lens with an invariable sub-diffraction-limited focal spot. <i>Optics Letters</i> , 2021 , 46, 2296-2299	3	0
118	Two-Dimensional BiSrCaCuO Nanosheets for Ultrafast Photonics and Optoelectronics. <i>ACS Nano</i> , 2021 , 15, 8919-8929	16.7	4
117	Cylindrical vector beam revealing multipolar nonlinear scattering for superlocalization of silicon nanostructures. <i>Photonics Research</i> , 2021 , 9, 950	6	2
116	Lasing action in Fano-resonant superlattice metagratings. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 345101	3	2
115	Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. <i>Nature Nanotechnology</i> , 2021 , 16, 975-980	28.7	12
114	Extremely Polarized and Efficient Hot Electron Intraband Luminescence from Aluminum Nanostructures for Nonlinear Optical Encoding. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000339	8.3	5

113	Reversible data encryption/decryption using a pH stimuli-responsive hydrogel. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2455-2463	7.1	5
112	3D high precision laser printing of a flat nanofocalizer for subwavelength light spot array. <i>Optics Letters</i> , 2021 , 46, 356-359	3	2
111	Arbitrary polarization conversion dichroism metasurfaces for all-in-one full Poincaré sphere polarizers. <i>Light: Science and Applications</i> , 2021 , 10, 24	16.7	50
110	Dual-shot dynamics and ultimate frequency of all-optical magnetic recording on GdFeCo. <i>Light: Science and Applications</i> , 2021 , 10, 8	16.7	13
109	Ultra-sensitive nanometric flat laser prints for binocular stereoscopic image. <i>Nature Communications</i> , 2021 , 12, 1154	17.4	8
108	Ultra-narrow-band metamaterial perfect absorber based on surface lattice resonance in a WS nanodisk array. <i>Optics Express</i> , 2021 , 29, 27084-27091	3.3	6
107	Vectorial Compound Metapixels for Arbitrary Nonorthogonal Polarization Steganography. <i>Advanced Materials</i> , 2021 , 33, e2103472	24	29
106	All-polarization-maintaining linear fiber laser mode-locked by nonlinear polarization evolution with phase bias. <i>Optics and Laser Technology</i> , 2021 , 142, 107160	4.2	3
105	Fabry-Perot cavity enhanced three-photon luminescence of atomically thin platinum diselenide. <i>Nanoscale</i> , 2021 , 13, 9031-9038	7.7	3
104	Phase modulated monolayer supercritical lens. <i>Nature Communications</i> , 2021 , 12, 32	17.4	11
103	Chemical switching of low-loss phonon polaritons in h-MoO by hydrogen intercalation. <i>Nature Communications</i> , 2020 , 11, 2646	17.4	26
102	Anapole mediated giant photothermal nonlinearity in nanostructured silicon. <i>Nature Communications</i> , 2020 , 11, 3027	17.4	35
101	Full-Color Complex-Amplitude Vectorial Holograms Based on Multi-Freedom Metasurfaces. <i>Advanced Functional Materials</i> , 2020 , 30, 1910610	15.6	116
100	Subwavelength Silicon Nanoblocks for Directional Emission Manipulation. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
99	Enhanced photocurrent generation from indium tin-oxide/Fe ₂ TiO ₅ hybrid nanocone arrays. <i>Nano Energy</i> , 2020 , 76, 104965	17.1	4
98	Highly stable and repeatable femtosecond soliton pulse generation from saturable absorbers based on two-dimensional Cu ₃ P nanocrystals. <i>Frontiers of Optoelectronics</i> , 2020 , 13, 139-148	2.8	6
97	Fano-Enhanced Circular Dichroism in Deformable Stereo Metasurfaces. <i>Advanced Materials</i> , 2020 , 32, e1907077	24	47
96	Loss-favored ultrasensitive refractive index sensor based on directional scattering from a single all-dielectric nanosphere. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6350-6357	7.1	2

95	Supercritical lens array in a centimeter scale patterned with maskless UV lithography. <i>Optics Letters</i> , 2020 , 45, 1798-1801	3	9
94	Multilevel phase supercritical lens fabricated by synergistic optical lithography. <i>Nanophotonics</i> , 2020 , 9, 1469-1477	6.3	5
93	Metasurface Holography 2020 , 1, 1-76		2
92	Theoretical Investigation of All Optical Switching by Intersystem Crossing. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 128	2.6	
91	Segmented cylindrical vector beams for massively-encoded optical data storage. <i>Science Bulletin</i> , 2020 , 65, 2072-2079	10.6	15
90	Great chiral fluorescence from the optical duality of silver nanostructures enabled by 3D laser printing. <i>Materials Horizons</i> , 2020 , 7, 3201-3208	14.4	3
89	Full-visible transmissive metagratings with large angle/wavelength/polarization tolerance. <i>Nanoscale</i> , 2020 , 12, 20604-20609	7.7	10
88	Atomically Thin Noble Metal Dichalcogenides for Phase-Regulated Meta-optics. <i>Nano Letters</i> , 2020 , 20, 7811-7818	11.5	17
87	All-Dielectric Kissing-Dimer Metagratings for Asymmetric High Diffraction. <i>Advanced Optical Materials</i> , 2019 , 7, 1901389	8.1	31
86	Polychromatic and polarized multilevel optical data storage. <i>Nanoscale</i> , 2019 , 11, 2447-2452	7.7	11
85	Full-visible multifunctional aluminium metasurfaces by in situ anisotropic thermoplasmonic laser printing. <i>Nanoscale Horizons</i> , 2019 , 4, 601-609	10.8	53
84	Laser-Splashed Plasmonic Nanocrater for Ratiometric Upconversion Regulation and Encryption. <i>Advanced Optical Materials</i> , 2019 , 7, 1900610	8.1	10
83	Coloring solar cells with simultaneously high efficiency by low-index dielectric nanoparticles. <i>Nano Energy</i> , 2019 , 62, 682-690	17.1	19
82	Diatomic metasurface based broadband J-plate for arbitrary spin-to-orbital conversion. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 324002	3	9
81	Unidirectional Enhanced Dipolar Emission with an Individual Dielectric Nanoantenna. <i>Nanomaterials</i> , 2019 , 9,	5.4	11
80	Theoretical Investigation of Laser Induced Magnetization Reversal by Spin Orbit Coupling and Stimulated Raman Scattering. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 102	2.6	1
79	Band structure engineering in metal halide perovskite nanostructures for optoelectronic applications. <i>Nano Materials Science</i> , 2019 , 1, 268-287	10.2	65
78	Dielectric multi-momentum meta-transformer in the visible. <i>Nature Communications</i> , 2019 , 10, 4789	17.4	50

77	Enhanced second harmonic emission with simultaneous polarization state tuning by aluminum metal-insulator-metal cross nanostructures. <i>Optics Express</i> , 2019 , 27, 30909-30918	3.3	5
76	Three-dimensional magnetization needle arrays with controllable orientation. <i>Optics Letters</i> , 2019 , 44, 727-730	3	17
75	Vortex beam generation from reduced graphene oxide(rGO)-polymer. <i>Optical Materials Express</i> , 2019 , 9, 4497	2.6	2
74	Tuning the sub-processes in laser reduction of graphene oxide by adjusting the power and scanning speed of laser. <i>Carbon</i> , 2019 , 141, 83-91	10.4	40
73	Ultra-Broadband Directional Scattering by Colloidally Lithographed High-Index Mie Resonant Oligomers and Their Energy-Harvesting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16776-16782	9.5	24
72	Angular Momentum-Dependent Transmission of Circularly Polarized Vortex Beams Through a Plasmonic Coaxial Nanoring. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-9	1.8	9
71	Diatomic Metasurface for Vectorial Holography. <i>Nano Letters</i> , 2018 , 18, 2885-2892	11.5	183
70	Multifunctional metasurface: from extraordinary optical transmission to extraordinary optical diffraction in a single structure. <i>Photonics Research</i> , 2018 , 6, 443	6	50
69	Multifunctional metasurface: from extraordinary optical transmission to extraordinary optical diffraction in a single structure: publisher's note. <i>Photonics Research</i> , 2018 , 6, 659	6	7
68	Plasmonic Nanoprobes for Multiplexed Fluorescence-Free Super-Resolution Imaging. <i>Advanced Optical Materials</i> , 2018 , 6, 1800432	8.1	7
67	All-optical generation of magnetization with arbitrary three-dimensional orientations. <i>Optics Letters</i> , 2018 , 43, 5551-5554	3	12
66	Diffraction photonic applications mediated by laser reduced graphene oxides. <i>Opto-Electronic Advances</i> , 2018 , 1, 17000201-17000208	6.5	27
65	Bidirectional plasmonic coloration with gold nanoparticles by wavelength-switched photoredox reaction. <i>Nanoscale</i> , 2018 , 10, 21910-21917	7.7	4
64	Noninterleaved Metasurface for (2-1) Spin- and Wavelength-Encoded Holograms. <i>Nano Letters</i> , 2018 , 18, 8016-8024	11.5	125
63	Invited Article: Saturation scattering competition for non-fluorescence single-wavelength super-resolution imaging. <i>APL Photonics</i> , 2018 , 3, 110801	5.2	4
62	All-optical helicity-dependent magnetic switching by first-order azimuthally polarized vortex beams. <i>Applied Physics Letters</i> , 2018 , 113, 171108	3.4	12
61	Facile metagrating holograms with broadband and extreme angle tolerance. <i>Light: Science and Applications</i> , 2018 , 7, 78	16.7	101
60	Laser-Splashed Three-Dimensional Plasmonic Nanovolcanoes for Steganography in Angular Anisotropy. <i>ACS Nano</i> , 2018 , 12, 9233-9239	16.7	54

59	Nonradiation Cellular Thermometry Based on Interfacial Thermally Induced Phase Transformation in Polymer Coating of Optical Microfiber. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9024-9028	9.5	11
58	Improved lateral resolution with an annular vortex depletion beam in STED microscopy. <i>Optics Letters</i> , 2017 , 42, 4885-4888	3	15
57	Generation of uniformly oriented in-plane magnetization with near-unity purity in 4 μ m microscopy. <i>Optics Letters</i> , 2017 , 42, 5050-5053	3	25
56	Refractive-Index Tuning of Highly Fluorescent Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28930-28938	9.5	35
55	Fano Resonance in a Metasurface Composed of Graphene Ribbon Superlattice. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-7	1.8	3
54	Generation of equilateral-polygon-like flat-top focus by tightly focusing radially polarized beams superposed with off-axis vortex arrays. <i>Optics Express</i> , 2017 , 25, 26844-26852	3.3	18
53	Advances in the far-field sub-diffraction limit focusing and super-resolution imaging by planar metalenses. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017 , 66, 144206	0.6	1
52	Significant light absorption enhancement in silicon thin film tandem solar cells with metallic nanoparticles. <i>Nanotechnology</i> , 2016 , 27, 195401	3.4	10
51	On-chip noninterference angular momentum multiplexing of broadband light. <i>Science</i> , 2016 , 352, 805-9	33.3	173
50	Light-Control-Light Nanoplasmonic Modulator for 3D Micro-optical Beam Shaping. <i>Advanced Optical Materials</i> , 2016 , 4, 70-75	8.1	4
49	Athermally photoreduced graphene oxides for three-dimensional holographic images. <i>Nature Communications</i> , 2015 , 6, 6984	17.4	139
48	Multifocal optical nanoscopy for big data recording at 30 TB capacity and gigabits/second data rate. <i>Optica</i> , 2015 , 2, 567	8.6	51
47	Lifetime investigation of single nitrogen vacancy centres in nanodiamonds. <i>Optics Express</i> , 2015 , 23, 11327-33	3.5	44
46	All-optically configuring the inverse Faraday effect for nanoscale perpendicular magnetic recording. <i>Optics Express</i> , 2015 , 23, 13530-6	3.3	22
45	Catenary optics for achromatic generation of perfect optical angular momentum. <i>Science Advances</i> , 2015 , 1, e1500396	14.3	422
44	Dynamic microscale temperature gradient in a gold nanorod solution measured by diffraction-limited nanothermometry. <i>Applied Physics Letters</i> , 2015 , 107, 121105	3.4	5
43	Graphene surface plasmons at the near-infrared optical regime. <i>Scientific Reports</i> , 2014 , 4, 6559	4.9	63
42	Breaking the diffraction-limited resolution barrier in fiber-optical two-photon fluorescence endoscopy by an azimuthally-polarized beam. <i>Scientific Reports</i> , 2014 , 4, 3627	4.9	43

41	Optical storage arrays: a perspective for future big data storage. <i>Light: Science and Applications</i> , 2014 , 3, e177-e177	16.7	225
40	Ultralong pure longitudinal magnetization needle induced by annular vortex binary optics. <i>Optics Letters</i> , 2014 , 39, 5022-5	3	68
39	Super-resolution nanofabrication with metal-ion doped hybrid material through an optical dual-beam approach. <i>Applied Physics Letters</i> , 2014 , 105, 263102	3-4	5
38	Long lifetime optical recording in gold-nanorod-dispersed organically modified ceramic nanocomposites 2014 ,		1
37	Focusing dual-wavelength surface plasmons to the same focal plane by a far-field plasmonic lens. <i>Optics Letters</i> , 2014 , 39, 5744-7	3	14
36	Complete determination of the orientation of NV centers with radially polarized beams. <i>Optics Express</i> , 2014 , 22, 4379-87	3-3	36
35	Polarization-multiplexed multifocal arrays by a π -phase-step-modulated azimuthally polarized beam. <i>Optics Letters</i> , 2014 , 39, 6771-4	3	28
34	Super-resolved pure-transverse focal fields with an enhanced energy density through focus of an azimuthally polarized first-order vortex beam. <i>Optics Letters</i> , 2014 , 39, 5961-4	3	45
33	Three-dimensional parallel recording with a Debye diffraction-limited and aberration-free volumetric multifocal array. <i>Optics Letters</i> , 2014 , 39, 1621-4	3	33
32	Quantum-dot based nanothermometry in optical plasmonic recording media. <i>Applied Physics Letters</i> , 2014 , 105, 181110	3-4	22
31	Super-resolution focal area induced by super-convergence in a photonic crystal immersion lens. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 075102	1-7	3
30	Surface-mode enhanced photonic-crystal nano-imaging observed by a scanning near-field optical microscope. <i>Applied Physics Letters</i> , 2013 , 103, 051106	3-4	
29	Giant refractive-index modulation by two-photon reduction of fluorescent graphene oxides for multimode optical recording. <i>Scientific Reports</i> , 2013 , 3, 2819	4-9	38
28	Nonlinear absorption properties of the charge states of nitrogen-vacancy centers in nanodiamonds. <i>Optics Letters</i> , 2013 , 38, 1358-60	3	19
27	Parallel multiphoton microscopy with cylindrically polarized multifocal arrays. <i>Optics Letters</i> , 2013 , 38, 3627-30	3	33
26	Generation of sub-diffraction-limited pure longitudinal magnetization by the inverse Faraday effect by tightly focusing an azimuthally polarized vortex beam. <i>Optics Letters</i> , 2013 , 38, 2957-60	3	57
25	Polarization-sensitive characterization of the propagating plasmonic modes in silver nanowire waveguide on a glass substrate with a scanning near-field optical microscope. <i>Optics Express</i> , 2013 , 21, 15247-52	3-3	10
24	Super-resolving single nitrogen vacancy centers within single nanodiamonds using a localization microscope. <i>Optics Express</i> , 2013 , 21, 17639-46	3-3	33

23	Exciton-plasmon coupling mediated photorefractivity in gold-nanoparticle- and quantum-dot-dispersed polymers. <i>Applied Physics Letters</i> , 2013 , 102, 251115	3.4	8
22	Research on the design of an optical information storage sensing system using a diffractive optical element. <i>Sensors</i> , 2013 , 13, 15409-21	3.8	2
21	Nanoplasmonics: a frontier of photovoltaic solar cells. <i>Nanophotonics</i> , 2012 , 1, 235-248	6.3	68
20	Upconversion fluorescent carbon nanodots enriched with nitrogen for light harvesting. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15522		94
19	Low energy-density recording with a high-repetition-rate laser beam in gold-nanorod-embedded discs. <i>Optics Express</i> , 2012 , 20, 24516-23	3.3	10
18	Three-dimensional orientation-unlimited polarization encryption by a single optically configured vectorial beam. <i>Nature Communications</i> , 2012 , 3, 998	17.4	185
17	Frontiers in diffraction unlimited optical methods for spin manipulation, magnetic field sensing and imaging using diamond nitrogen vacancy defects. <i>Nanophotonics</i> , 2012 , 1, 139-153	6.3	9
16	Superresolution-focal-volume induced 3.0 Tbytes/disk capacity by focusing a radially polarized beam. <i>Optics Letters</i> , 2011 , 36, 2510-2	3	68
15	Observation of the inverse Doppler effect in negative-index materials at optical frequencies. <i>Nature Photonics</i> , 2011 , 5, 239-242	33.9	94
14	Type-II core/shell nanoparticle induced photorefractivity. <i>Applied Physics Letters</i> , 2011 , 98, 231107	3.4	6
13	Characterisation of a plasmonic lens for super-resolution optical data storage 2011 ,		1
12	Enhanced photorefractive performance in CdSe quantum-dot-dispersed poly(styrene-co-acrylonitrile) polymers. <i>Applied Physics Letters</i> , 2010 , 96, 253302	3.4	5
11	The Road to Multi-Dimensional Bit-by-Bit Optical Data Storage. <i>Optics and Photonics News</i> , 2010 , 21, 28	1.9	15
10	Enhanced two-photon absorption of CdS nanocrystal rods. <i>Applied Physics Letters</i> , 2009 , 94, 103117	3.4	47
9	Quantum-rod dispersed photopolymers for multi-dimensional photonic applications. <i>Optics Express</i> , 2009 , 17, 2954-61	3.3	14
8	Confocal reflection readout thresholds in two-photon-induced optical recording. <i>Applied Optics</i> , 2008 , 47, 4707-13	0.2	3
7	Two-photon energy transfer enhanced three-dimensional optical memory in quantum-dot and azo-dye doped polymers. <i>Applied Physics Letters</i> , 2008 , 92, 063309	3.4	27
6	Nanoparticle-Based Photorefractive Polymers. <i>Australian Journal of Chemistry</i> , 2008 , 61, 317	1.2	18

5	Two-photon-induced three-dimensional optical data storage in CdS quantum-dot doped photopolymer. <i>Applied Physics Letters</i> , 2007 , 90, 161116	3.4	32
4	Rewritable polarization-encoded multilayer data storage in 2,5-dimethyl-4-(p-nitrophenylazo)anisole doped polymer. <i>Optics Letters</i> , 2007 , 32, 277-9	3	4 ⁸
3	Synthetic helical dichroism for six-dimensional optical orbital angular momentum multiplexing. <i>Nature Photonics</i> ,	33.9	22
2	Mie-enhanced photothermal/thermo-optical nonlinearity and applications on all-optical switch and super-resolution imaging. <i>Optical Materials Express</i> ,	2.6	2
1	Extreme Diffraction Control in Metagratings Leveraging Bound States in the Continuum and Exceptional Points. <i>Laser and Photonics Reviews</i> ,2100617	8.3	5