Xiangping Li

List of Publications by Citations

130	3,998	34	60
papers	citations	h-index	g-index
167	5,078	7.6	5.68
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
130	Catenary optics for achromatic generation of perfect optical angular momentum. *Science Advances*, **2015**, 1, e1500396	14.3	422
129	Optical storage arrays: a perspective for future big data storage. *Light: Science and Applications*, **2014**, 3, e177-e177	16.7	225
128	Three-dimensional orientation-unlimited polarization encryption by a single optically configured vectorial beam. *Nature Communications*, **2012**, 3, 998	17.4	185
127	Diatomic Metasurface for Vectorial Holography. *Nano Letters*, **2018**, 18, 2885-2892	11.5	183
126	On-chip noninterference angular momentum multiplexing of broadband light. *Science*, **2016**, 352, 805-9	33.3	173
125	Athermally photoreduced graphene oxides for three-dimensional holographic images. *Nature Communications*, **2015**, 6, 6984	17.4	139
124	Noninterleaved Metasurface for (2-1) Spin- and Wavelength-Encoded Holograms. *Nano Letters*, **2018**, 18, 8016-8024	11.5	125
123	Full-Color Complex-Amplitude Vectorial Holograms Based on Multi-Freedom Metasurfaces. *Advanced Functional Materials*, **2020**, 30, 1910610	15.6	116
122	Facile metagrating holograms with broadband and extreme angle tolerance. *Light: Science and Applications*, **2018**, 7, 78	16.7	101
121	Upconversion fluorescent carbon nanodots enriched with nitrogen for light harvesting. *Journal of Materials Chemistry*, **2012**, 22, 15522		94
120	Observation of the inverse Doppler effect in negative-index materials at optical frequencies. *Nature Photonics*, **2011**, 5, 239-242	33.9	94
119	Ultralong pure longitudinal magnetization needle induced by annular vortex binary optics. *Optics Letters*, **2014**, 39, 5022-5	3	68
118	Nanoplasmonics: a frontier of photovoltaic solar cells. *Nanophotonics*, **2012**, 1, 235-248	6.3	68
117	Superresolution-focal-volume induced 3.0 Tbytes/disk capacity by focusing a radially polarized beam. *Optics Letters*, **2011**, 36, 2510-2	3	68
116	Band structure engineering in metal halide perovskite nanostructures for optoelectronic applications. *Nano Materials Science*, **2019**, 1, 268-287	10.2	65
115	Graphene surface plasmons at the near-infrared optical regime. *Scientific Reports*, **2014**, 4, 6559	4.9	63
114	Generation of sub-diffraction-limited pure longitudinal magnetization by the inverse Faraday effect by tightly focusing an azimuthally polarized vortex beam. *Optics Letters*, **2013**, 38, 2957-60	3	57

113	Laser-Splashed Three-Dimensional Plasmonic Nanovolcanoes for Steganography in Angular Anisotropy. *ACS Nano*, **2018**, 12, 9233-9239	16.7	54
112	Full-visible multifunctional aluminium metasurfaces by in situ anisotropic thermoplasmonic laser printing. *Nanoscale Horizons*, **2019**, 4, 601-609	10.8	53
111	Multifocal optical nanoscopy for big data recording at 30 TB capacity and gigabits/second data rate. *Optica*, **2015**, 2, 567	8.6	51
110	Multifunctional metasurface: from extraordinary optical transmission to extraordinary optical diffraction in a single structure. *Photonics Research*, **2018**, 6, 443	6	50
109	Dielectric multi-momentum meta-transformer in the visible. *Nature Communications*, **2019**, 10, 4789	17.4	50
108	Arbitrary polarization conversion dichroism metasurfaces for all-in-one full Poincar□sphere polarizers. *Light: Science and Applications*, **2021**, 10, 24	16.7	50
107	Rewritable polarization-encoded multilayer data storage in 2,5-dimethyl-4-(p-nitrophenylazo)anisole doped polymer. *Optics Letters*, **2007**, 32, 277-9	3	48
106	Fano-Enhanced Circular Dichroism in Deformable Stereo Metasurfaces. *Advanced Materials*, **2020**, 32, e1907077	24	47
105	Enhanced two-photon absorption of CdS nanocrystal rods. *Applied Physics Letters*, **2009**, 94, 103117	3.4	47
104	Super-resolved pure-transverse focal fields with an enhanced energy density through focus of an azimuthally polarized first-order vortex beam. *Optics Letters*, **2014**, 39, 5961-4	3	45
103	Lifetime investigation of single nitrogen vacancy centres in nanodiamonds. *Optics Express*, **2015**, 23, 11327-33	3.5	44
102	Breaking the diffraction-limited resolution barrier in fiber-optical two-photon fluorescence endoscopy by an azimuthally-polarized beam. *Scientific Reports*, **2014**, 4, 3627	4.9	43
101	Tuning the sub-processes in laser reduction of graphene oxide by adjusting the power and scanning speed of laser. *Carbon*, **2019**, 141, 83-91	10.4	40
100	Giant refractive-index modulation by two-photon reduction of fluorescent graphene oxides for multimode optical recording. *Scientific Reports*, **2013**, 3, 2819	4.9	38
99	Complete determination of the orientation of NV centers with radially polarized beams. *Optics Express*, **2014**, 22, 4379-87	3.3	36
98	Anapole mediated giant photothermal nonlinearity in nanostructured silicon. *Nature Communications*, **2020**, 11, 3027	17.4	35
97	Refractive-Index Tuning of Highly Fluorescent Carbon Dots. *ACS Applied Materials & Interfaces*, **2017**, 9, 28930-28938	9.5	35
96	Three-dimensional parallel recording with a Debye diffraction-limited and aberration-free volumetric multifocal array. *Optics Letters*, **2014**, 39, 1621-4	3	33

95	Parallel multiphoton microscopy with cylindrically polarized multifocal arrays. *Optics Letters*, **2013**, 38, 3627-30	3	33
94	Super-resolving single nitrogen vacancy centers within single nanodiamonds using a localization microscope. *Optics Express*, **2013**, 21, 17639-46	3.3	33
93	Two-photon-induced three-dimensional optical data storage in CdS quantum-dot doped photopolymer. *Applied Physics Letters*, **2007**, 90, 161116	3.4	32
92	All-Dielectric Kissing-Dimer Metagratings for Asymmetric High Diffraction. *Advanced Optical Materials*, **2019**, 7, 1901389	8.1	31
91	Vectorial Compound Metapixels for Arbitrary Nonorthogonal Polarization Steganography. *Advanced Materials*, **2021**, 33, e2103472	24	29
90	Polarization-multiplexed multifocal arrays by a phase-step-modulated azimuthally polarized beam. *Optics Letters*, **2014**, 39, 6771-4	3	28
89	Two-photon energy transfer enhanced three-dimensional optical memory in quantum-dot and azo-dye doped polymers. *Applied Physics Letters*, **2008**, 92, 063309	3.4	27
88	Diffractive photonic applications mediated by laser reduced graphene oxides. *Opto-Electronic Advances*, **2018**, 1, 17000201-17000208	6.5	27
87	Chemical switching of low-loss phonon polaritons in MoO by hydrogen intercalation. *Nature Communications*, **2020**, 11, 2646	17.4	26
86	Generation of uniformly oriented in-plane magnetization with near-unity purity in 4 microscopy. *Optics Letters*, **2017**, 42, 5050-5053	3	25
85	Ultra-Broadband Directional Scattering by Colloidally Lithographed High-Index Mie Resonant Oligomers and Their Energy-Harvesting Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 16776-16782	9.5	24
84	All-optically configuring the inverse Faraday effect for nanoscale perpendicular magnetic recording. *Optics Express*, **2015**, 23, 13530-6	3.3	22
83	Quantum-dot based nanothermometry in optical plasmonic recording media. *Applied Physics Letters* , **2014**, 105, 181110	3.4	22
82	Synthetic helical dichroism for six-dimensional optical orbital angular momentum multiplexing. *Nature Photonics*,	33.9	22
81	Coloring solar cells with simultaneously high efficiency by low-index dielectric nanoparticles. *Nano Energy*, **2019**, 62, 682-690	17.1	19
80	Nonlinear absorption properties of the charge states of nitrogen-vacancy centers in nanodiamonds. *Optics Letters*, **2013**, 38, 1358-60	3	19
79	Generation of equilateral-polygon-like flat-top focus by tightly focusing radially polarized beams superposed with off-axis vortex arrays. *Optics Express*, **2017**, 25, 26844-26852	3.3	18
78	Nanoparticle-Based Photorefractive Polymers. *Australian Journal of Chemistry*, **2008**, 61, 317	1.2	18

77	Three-dimensional magnetization needle arrays with controllable orientation. *Optics Letters*, **2019**, 44, 727-730	3	17
76	Atomically Thin Noble Metal Dichalcogenides for Phase-Regulated Meta-optics. *Nano Letters*, **2020**, 20, 7811-7818	11.5	17
75	Improved lateral resolution with an annular vortex depletion beam in STED microscopy. *Optics Letters*, **2017**, 42, 4885-4888	3	15
74	The Road to Multi-Dimensional Bit-by-Bit Optical Data Storage. *Optics and Photonics News*, **2010**, 21, 28	1.9	15
73	Segmented cylindrical vector beams for massively-encoded optical data storage. *Science Bulletin*, **2020**, 65, 2072-2079	10.6	15
72	Focusing dual-wavelength surface plasmons to the same focal plane by a far-field plasmonic lens. *Optics Letters*, **2014**, 39, 5744-7	3	14
71	Quantum-rod dispersed photopolymers for multi-dimensional photonic applications. *Optics Express*, **2009**, 17, 2954-61	3.3	14
70	Dual-shot dynamics and ultimate frequency of all-optical magnetic recording on GdFeCo. *Light: Science and Applications*, **2021**, 10, 8	16.7	13
69	All-optical generation of magnetization with arbitrary three-dimensional orientations. *Optics Letters*, **2018**, 43, 5551-5554	3	12
68	Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. *Nature Nanotechnology*, **2021**, 16, 975-980	28.7	12
67	All-optical helicity-dependent magnetic switching by first-order azimuthally polarized vortex beams. *Applied Physics Letters*, **2018**, 113, 171108	3.4	12
66	Nonradiation Cellular Thermometry Based on Interfacial Thermally Induced Phase Transformation in Polymer Coating of Optical Microfiber. *ACS Applied Materials & Interfaces*, **2017**, 9, 9024-9028	9.5	11
65	Polychromatic and polarized multilevel optical data storage. *Nanoscale*, **2019**, 11, 2447-2452	7.7	11
64	Unidirectional Enhanced Dipolar Emission with an Individual Dielectric Nanoantenna. *Nanomaterials* , **2019**, 9,	5.4	11
63	Observation of localized magnetic plasmon skyrmions.. *Nature Communications*, **2022**, 13, 8	17.4	11
62	Phase modulated monolayer supercritical lens. *Nature Communications*, **2021**, 12, 32	17.4	11
61	Laser-Splashed Plasmonic Nanocrater for Ratiometric Upconversion Regulation and Encryption. *Advanced Optical Materials*, **2019**, 7, 1900610	8.1	10
60	Polarization-sensitive characterization of the propagating plasmonic modes in silver nanowire waveguide on a glass substrate with a scanning near-field optical microscope. *Optics Express*, **2013**, 21, 15247-52	3.3	10

59	Low energy-density recording with a high-repetition-rate laser beam in gold-nanorod-embedded discs. *Optics Express*, **2012**, 20, 24516-23	3.3	10
58	Full-visible transmissive metagratings with large angle/wavelength/polarization tolerance. *Nanoscale*, **2020**, 12, 20604-20609	7.7	10
57	Significant light absorption enhancement in silicon thin film tandem solar cells with metallic nanoparticles. *Nanotechnology*, **2016**, 27, 195401	3.4	10
56	Diatomic metasurface based broadband J-plate for arbitrary spin-to-orbital conversion. *Journal Physics D: Applied Physics*, **2019**, 52, 324002	3	9
55	Angular Momentum-Dependent Transmission of Circularly Polarized Vortex Beams Through a Plasmonic Coaxial Nanoring. *IEEE Photonics Journal*, **2018**, 10, 1-9	1.8	9
54	Frontiers in diffraction unlimited optical methods for spin manipulation, magnetic field sensing and imaging using diamond nitrogen vacancy defects. *Nanophotonics*, **2012**, 1, 139-153	6.3	9
53	Supercritical lens array in a centimeter scale patterned with maskless UV lithography. *Optics Letters* , **2020**, 45, 1798-1801	3	9
52	Displacement-mediated bound states in the continuum in all-dielectric superlattice metasurfaces. *PhotoniX*, **2021**, 2,	19	9
51	Exciton-plasmon coupling mediated photorefractivity in gold-nanoparticle- and quantum-dot-dispersed polymers. *Applied Physics Letters*, **2013**, 102, 251115	3.4	8
50	Ultra-sensitive nanometric flat laser prints for binocular stereoscopic image. *Nature Communications*, **2021**, 12, 1154	17.4	8
49	Multifunctional metasurface: from extraordinary optical transmission to extraordinary optical diffraction in a single structure: publisher note. *Photonics Research*, **2018**, 6, 659	6	7
48	Plasmonic Nanoprobes for Multiplexed Fluorescence-Free Super-Resolution Imaging. *Advanced Optical Materials*, **2018**, 6, 1800432	8.1	7
47	Highly stable and repeatable femtosecond soliton pulse generation from saturable absorbers based on two-dimensional Cu3P nanocrystals. *Frontiers of Optoelectronics*, **2020**, 13, 139-148	2.8	6
46	Type-II core/shell nanoparticle induced photorefractivity. *Applied Physics Letters*, **2011**, 98, 231107	3.4	6
45	Ultra-narrow-band metamaterial perfect absorber based on surface lattice resonance in a WS nanodisk array. *Optics Express*, **2021**, 29, 27084-27091	3.3	6
44	Dynamic microscale temperature gradient in a gold nanorod solution measured by diffraction-limited nanothermometry. *Applied Physics Letters*, **2015**, 107, 121105	3.4	5
43	Super-resolution nanofabrication with metal-ion doped hybrid material through an optical dual-beam approach. *Applied Physics Letters*, **2014**, 105, 263102	3.4	5
42	Enhanced photorefractive performance in CdSe quantum-dot-dispersed poly(styrene-co-acrylonitrile) polymers. *Applied Physics Letters*, **2010**, 96, 253302	3.4	5

41	Near-perfect fidelity polarization-encoded multilayer optical data storage based on aligned gold nanorods. *Opto-Electronic Advances*, **2021**, 4, 210002-210002	6.5	5
40	Enhanced second harmonic emission with simultaneous polarization state tuning by aluminum metal-insulator-metal cross nanostructures. *Optics Express*, **2019**, 27, 30909-30918	3.3	5
39	Multilevel phase supercritical lens fabricated by synergistic optical lithography. *Nanophotonics*, **2020**, 9, 1469-1477	6.3	5
38	Extremely Polarized and Efficient Hot Electron Intraband Luminescence from Aluminum Nanostructures for Nonlinear Optical Encoding. *Laser and Photonics Reviews*, **2021**, 15, 2000339	8.3	5
37	Reversible data encryption□decryption using a pH stimuli-responsive hydrogel. *Journal of Materials Chemistry C*, **2021**, 9, 2455-2463	7.1	5
36	Extreme Diffraction Control in Metagratings Leveraging Bound States in the Continuum and Exceptional Points. *Laser and Photonics Reviews*,2100617	8.3	5
35	Enhanced photocurrent generation from indium□in-oxide/Fe2TiO5 hybrid nanocone arrays. *Nano Energy*, **2020**, 76, 104965	17.1	4
34	Two-Dimensional BiSrCaCuO Nanosheets for Ultrafast Photonics and Optoelectronics. *ACS Nano*, **2021**, 15, 8919-8929	16.7	4
33	Light-Control-Light Nanoplasmonic Modulator for 3D Micro-optical Beam Shaping. *Advanced Optical Materials*, **2016**, 4, 70-75	8.1	4
32	Bidirectional plasmonic coloration with gold nanoparticles by wavelength-switched photoredox reaction. *Nanoscale*, **2018**, 10, 21910-21917	7.7	4
31	Invited Article: Saturation scattering competition for non-fluorescence single-wavelength super-resolution imaging. *APL Photonics*, **2018**, 3, 110801	5.2	4
30	Super-resolution focal area induced by super-convergence in a photonic crystal immersion lens. *Journal of Optics (United Kingdom)*, **2013**, 15, 075102	1.7	3
29	Fano Resonance in a Metasurface Composed of Graphene Ribbon Superlattice. *IEEE Photonics Journal*, **2017**, 9, 1-7	1.8	3
28	Confocal reflection readout thresholds in two-photon-induced optical recording. *Applied Optics*, **2008**, 47, 4707-13	0.2	3
27	Ultra-secure optical encryption based on tightly focused perfect optical vortex beams. *Nanophotonics*, **2022**,	6.3	3
26	Great chiral fluorescence from the optical duality of silver nanostructures enabled by 3D laser printing. *Materials Horizons*, **2020**, 7, 3201-3208	14.4	3
25	All-polarization-maintaining linear fiber laser mode-locked by nonlinear polarization evolution with phase bias. *Optics and Laser Technology*, **2021**, 142, 107160	4.2	3
24	Fabry-Perot cavity enhanced three-photon luminescence of atomically thin platinum diselenide. *Nanoscale*, **2021**, 13, 9031-9038	7.7	3

23	Cylindrical vector beams reveal radiationless anapole condition in a resonant state. *Opto-Electronic Advances*, **2022**, 210014-210014	6.5	3
22	Subwavelength Silicon Nanoblocks for Directional Emission Manipulation. *Nanomaterials*, **2020**, 10,	5.4	2
21	Loss-favored ultrasensitive refractive index sensor based on directional scattering from a single all-dielectric nanosphere. *Journal of Materials Chemistry C*, **2020**, 8, 6350-6357	7.1	2
20	Research on the design of an optical information storage sensing system using a diffractive optical element. *Sensors*, **2013**, 13, 15409-21	3.8	2
19	Multi-freedom metasurface empowered vectorial holography. *Nanophotonics*, **2022**,	6.3	2
18	Vortex beam generation from reduced graphene oxide(rGO)-polymer. *Optical Materials Express*, **2019**, 9, 4497	2.6	2
17	Metasurface Holography **2020**, 1, 1-76		2
16	Nanointerferometric Discrimination of the Spin□Orbit Hall Effect. *ACS Photonics*, **2021**, 8, 1169-1174	6.3	2
15	Cylindrical vector beam revealing multipolar nonlinear scattering for superlocalization of silicon nanostructures. *Photonics Research*, **2021**, 9, 950	6	2
14	Lasing action in Fano-resonant superlattice metagratings. *Journal Physics D: Applied Physics*, **2021**, 54, 345101	3	2
13	3D high precision laser printing of a flat nanofocalizer for subwavelength light spot array. *Optics Letters*, **2021**, 46, 356-359	3	2
12	Mie-enhanced photothermal/thermo-optical nonlinearity and applications on all-optical switch and super-resolution imaging. *Optical Materials Express*,	2.6	2
11	Theoretical Investigation of Laser Induced Magnetization Reversal by Spin Orbit Coupling and Stimulated Raman Scattering. *Applied Sciences (Switzerland)*, **2019**, 9, 102	2.6	1
10	Long lifetime optical recording in gold-nanorod-dispersed organically modified ceramic nanocomposites **2014**,		1
9	Characterisation of a plasmonic lens for super-resolution optical data storage **2011**,		1
8	Rayleigh anomaly-enabled mode hybridization in gold nanohole arrays by scalable colloidal lithography for highly-sensitive biosensing. *Nanophotonics*, **2022**, 11, 507-517	6.3	1
7	Advances in the far-field sub-diffraction limit focusing and super-resolution imaging by planar metalenses. *Wuli Xuebao/Acta Physica Sinica*, **2017**, 66, 144206	0.6	1
6	Etching-free high-throughput intersectional nanofabrication of diverse optical nanoantennas for nanoscale light manipulation.. *Journal of Colloid and Interface Science*, **2022**, 622, 950-959	9.3	1

5	Environmentally robust immersion supercritical lens with an invariable sub-diffraction-limited focal spot. *Optics Letters*, **2021**, 46, 2296-2299	3	0
4	Subwavelength generation of orientation-unlimited energy flow in 4 microscopy.. *Optics Express*, **2022**, 30, 138-145	3.3	0
3	Surface-mode enhanced photonic-crystal nano-imaging observed by a scanning near-field optical microscope. *Applied Physics Letters*, **2013**, 103, 051106	3.4	
2	Perfect diffractive circular metagrating for Bessel beam transformation.. *Optics Letters*, **2022**, 47, 1375-1378	3	
1	Theoretical Investigation of All Optical Switching by Intersystem Crossing. *Applied Sciences (Switzerland)*, **2020**, 10, 128	2.6	