

# Xiaohui Ling

## List of Publications by Year in descending order

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77  
papers

4,795  
citations

101384

36  
h-index

95083

68  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beam shifts in two-dimensional atomic crystals. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 133001.	1.3	8
2	Gate-tuned graphene meta-devices for dynamically controlling terahertz wavefronts. <i>Nanophotonics</i> , 2022, 11, 2085-2096.	2.9	50
3	Enhancing the efficiency of the topological phase transitions in spin-orbit photonics. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	6
4	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
5	A Low-RCS and High-Gain Planar Circularly Polarized Cassegrain Meta-Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 5278-5287.	3.1	7
6	Measurement of the optical constants of monolayer MoS <sub>2</sub> via the photonic spin Hall effect. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	28
7	Spin-Encoded Wavelength-Direction Multitasking Janus Metasurfaces. <i>Advanced Optical Materials</i> , 2021, 9, 2100190.	3.6	73
8	Revisiting the anomalous spin-Hall effect of light near the Brewster angle. <i>Physical Review A</i> , 2021, 103, .	1.0	43
9	Deterministic Approach to Achieve Full-Polarization Cloak. <i>Research</i> , 2021, 2021, 6382172.	2.8	39
10	Spin-orbit interactions in a nonlinear medium due to a nonlinear-induced geometric phase. <i>Optics Letters</i> , 2021, 46, 2758.	1.7	7
11	Topology-Induced Phase Transitions in Spin-Orbit Photonics. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000492.	4.4	55
12	Dynamically controlling terahertz wavefronts with cascaded metasurfaces. <i>Advanced Photonics</i> , 2021, 3, .	6.2	138
13	Vortex mode decomposition of the topology-induced phase transitions in spin-orbit optics. <i>Physical Review A</i> , 2021, 104, .	1.0	16
14	Enhanced optical spatial differential operations via strong spin-orbit interactions in an anisotropic epsilon-near-zero slab. <i>Physical Review A</i> , 2021, 104, .	1.0	12
15	Revisiting the photonic spin-Hall effect upon reflection and refraction. , 2021, , .		0
16	Wavevector and Frequency Multiplexing Performed by a Spin-Decoupled Multichannel Metasurface. <i>Advanced Materials Technologies</i> , 2020, 5, 1900710.	3.0	87
17	Actively manipulating asymmetric photonic spin Hall effect with graphene. <i>Carbon</i> , 2020, 166, 396-404.	5.4	32
18	Ultrasensitive and real-time detection of chemical reaction rate based on the photonic spin Hall effect. <i>APL Photonics</i> , 2020, 5, 016105.	3.0	85

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19	Three-dimensional spin Hall effect of light in tight focusing. <i>Physical Review A</i> , 2020, 101, .	1.0	26
20	Multiplexed Metasurfaces: Wavevector and Frequency Multiplexing Performed by a Spin-Decoupled Multichannel Metasurface ( <i>Adv. Mater. Technol.</i> 1/2020). <i>Advanced Materials Technologies</i> , 2020, 5, 2070005.	3.0	7
21	Precision Measurement of the Optical Conductivity of Atomically Thin Crystals via the Photonic Spin Hall Effect. <i>Physical Review Applied</i> , 2020, 13, .	1.5	116
22	Vortex generation in the spin-orbit interaction of a light beam propagating inside a uniaxial medium: origin and efficiency. <i>Optics Express</i> , 2020, 28, 27258.	1.7	29
23	Chirality-Assisted High-Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. <i>Advanced Optical Materials</i> , 2019, 7, 1801479.	3.6	181
24	Interference-assisted kaleidoscopic meta-plexer for arbitrary spin-wavefront manipulation. <i>Light: Science and Applications</i> , 2019, 8, 3.	7.7	153
25	Transformation of photonic spin Hall effect from momentum space to position space. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1397.	0.9	3
26	Large in-plane asymmetric spin angular shifts of a light beam near the critical angle. <i>Optics Letters</i> , 2019, 44, 207.	1.7	23
27	Photonic spin Hall effect enabled refractive index sensor using weak measurements. <i>Scientific Reports</i> , 2018, 8, 1221.	1.6	122
28	Wavenumber-Splitting Metasurfaces Achieve Multichannel Diffusive Invisibility. <i>Advanced Optical Materials</i> , 2018, 6, 1800010.	3.6	70
29	Deterministic Approach to Achieve Broadband Polarization-Independent Diffusive Scatterings Based on Metasurfaces. <i>ACS Photonics</i> , 2018, 5, 1691-1702.	3.2	113
30	Sensitivity Enhanced Refractive Index Sensor by Reducing the Influence of In-Plane Wavevector in Photonic Spin Hall Effect. <i>IEEE Photonics Journal</i> , 2018, 10, 1-9.	1.0	16
31	Wavenumber-Splitting Metasurfaces for Multi-Channel Diffusive invisibility. , 2018, , .		0
32	Transitional Goos-Hänchen effect due to the topological phase transitions. <i>Optics Express</i> , 2018, 26, 23705.	1.7	28
33	Broadband wide-angle polarization-independent diffusion using parabolic-phase metasurface. , 2018, , .		4
34	Photonic spin Hall effect on the surface of anisotropic two-dimensional atomic crystals. <i>Photonics Research</i> , 2018, 6, 511.	3.4	95
35	Realization of photonic spin Hall effect by breaking the rotation symmetry of optical field in light-matter interaction. <i>Optics Communications</i> , 2018, 427, 238-243.	1.0	0
36	Generation of double-ring-shaped cylindrical vector beams by modulating Pancharatnam-Berry phase. <i>Optik</i> , 2017, 134, 227-232.	1.4	7

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37	Flexible control of highly directive emissions based on bifunctional metasurfaces with low polarization cross-talk. <i>Annalen Der Physik</i> , 2017, 529, 1700045.	0.9	95
38	Tripole-mode and quadrupole-mode solitons in (1+ $\epsilon$ )-dimensional nonlinear media with a spatial exponential-decay nonlocality. <i>Scientific Reports</i> , 2017, 7, 122.	1.6	37
39	Recent advances in the spin Hall effect of light. <i>Reports on Progress in Physics</i> , 2017, 80, 066401.	8.1	360
40	Broadband Vortex Beam Generation Using Multimode Pancharatnam-Berry Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 7378-7382.	3.1	178
41	Geometric spin Hall effect of light with inhomogeneous polarization. <i>Optics Communications</i> , 2017, 383, 412-417.	1.0	15
42	Precise identification of graphene layers at the air-prism interface via a pseudo-Brewster angle. <i>Optics Letters</i> , 2017, 42, 4135.	1.7	30
43	Polarization evolution of vector beams generated by q-plates. <i>Photonics Research</i> , 2017, 5, 64.	3.4	40
44	Measurements of Pancharatnam-Berry phase in mode transformations on hybrid-order Poincaré sphere. <i>Optics Letters</i> , 2017, 42, 3447.	1.7	24
45	Generation of Bessel beam by manipulating Pancharatnam-Berry phase. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017, 66, 044203.	0.2	4
46	Characterization and manipulation of full Poincaré beams on the hybrid Poincaré sphere. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 2172.	0.9	34
47	Visible-Frequency Metasurface for Structuring and Spatially Multiplexing Optical Vortices. <i>Advanced Materials</i> , 2016, 28, 2533-2539.	11.1	387
48	Propagation model for vector beams generated by metasurfaces. <i>Optics Express</i> , 2016, 24, 21177.	1.7	36
49	Geometric phase gradient and spin Hall effect of light. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
50	Radial spin Hall effect of light. <i>Physical Review A</i> , 2016, 93, .	1.0	29
51	A method for generating double-ring-shaped vector beams. <i>Chinese Physics B</i> , 2016, 25, 074201.	0.7	1
52	Manipulation of full Poincaré beams on a hybrid Poincaré sphere. , 2016, , .		0
53	Generation and representation of vector vortex beams based on metasurfaces. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
54	Unveiling the photonic spin Hall effect with asymmetric spin-dependent splitting. <i>Optics Express</i> , 2016, 24, 3025.	1.7	24

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55	Flat Helical Nanosieves. <i>Advanced Functional Materials</i> , 2016, 26, 5255-5262.	7.8	64
56	Enhanced Photonic Spin Hall Effect Due to Surface Plasmon Resonance. <i>IEEE Photonics Journal</i> , 2016, 8, 1-8.	1.0	59
57	Hybrid-order Poincaré sphere. <i>Physical Review A</i> , 2015, 91, .	1.0	156
58	Photonic spin Hall effect in dielectric metasurfaces with rotational symmetry breaking. <i>Optics Letters</i> , 2015, 40, 756.	1.7	64
59	Observation of photonic spin Hall effect with phase singularity at dielectric metasurfaces. <i>Optics Express</i> , 2015, 23, 1767.	1.7	34
60	Giant photonic spin Hall effect in momentum space in a structured metamaterial with spatially varying birefringence. <i>Light: Science and Applications</i> , 2015, 4, e290-e290.	7.7	245
61	Addition and subtraction operation of optical orbital angular momentum with dielectric metasurfaces. <i>Optics Communications</i> , 2015, 356, 456-462.	1.0	6
62	Analytic Expressions for the Interaction of Modified Hollow Gaussian Beams in Highly Nonlocal Nonlinear Media. <i>Journal of Russian Laser Research</i> , 2015, 36, 440-447.	0.3	3
63	Generation of arbitrary cylindrical vector beams on the higher order Poincaré sphere. <i>Optics Letters</i> , 2014, 39, 5274.	1.7	157
64	Realization of tunable spin-dependent splitting in intrinsic photonic spin Hall effect. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	50
65	Photonic Zitterbewegung effect: Asymmetric spatio-temporal filtering near the Dirac point. <i>Optics Communications</i> , 2014, 321, 96-99.	1.0	1
66	Orbit-orbit interaction and photonic orbital Hall effect in reflection of a light beam. <i>Chinese Physics B</i> , 2014, 23, 064215.	0.7	22
67	Generation of cylindrical vector vortex beams by two cascaded metasurfaces. <i>Optics Express</i> , 2014, 22, 17207.	1.7	176
68	Realization of polarization evolution on higher-order Poincaré sphere with metasurface. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	121
69	Observation of Spin Hall Effect in Photon Tunneling via Weak Measurements. <i>Scientific Reports</i> , 2014, 4, 7388.	1.6	39
70	Realization of Tunable Photonic Spin Hall Effect by Tailoring the Pancharatnam-Berry Phase. <i>Scientific Reports</i> , 2014, 4, 5557.	1.6	37
71	Conversion of cylindrical vector beams on the higher-order Poincaré sphere. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2014, 63, 154203.	0.2	1
72	Photonic spin Hall effect in topological insulators. <i>Physical Review A</i> , 2013, 88, .	1.0	76

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73	Enhanced and Tunable Spin Hall Effect of Light upon Reflection of One-Dimensional Photonic Crystal with a Defect Layer. Chinese Physics Letters, 2012, 29, 074209.	1.3	25
74	Metamaterial-based polarization control plate for producing incoherent laser irradiation. Applied Optics, 2012, 51, 4749.	0.9	6
75	Steering far-field spin-dependent splitting of light by inhomogeneous anisotropic media. Physical Review A, 2012, 86, .	1.0	25
76	Identifying graphene layers via spin Hall effect of light. Applied Physics Letters, 2012, 101, .	1.5	314
77	Enhancing or suppressing the spin Hall effect of light in layered nanostructures. Physical Review A, 2011, 84, .	1.0	133