Xiaohui Ling

List of Publications by Year
in descending order

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	Visibleâ€Frequency Metasurface for Structuring and Spatially Multiplexing Optical Vortices. Advanced Materials, 2016, 28, 2533-2539.	11.1	387
2	Recent advances in the spin Hall effect of light. Reports on Progress in Physics, 2017, 80, 066401.	8.1	360
3	Identifying graphene layers via spin Hall effect of light. Applied Physics Letters, 2012, 101, .	1.5	314
4	Giant photonic spin Hall effect in momentum space in a structured metamaterial with spatially varying birefringence. Light: Science and Applications, 2015, 4, e290-e290.	7.7	245
5	Chiralityâ€Assisted Highâ€Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. Advanced Optical Materials, 2019, 7, 1801479.	3.6	181
6	Broadband Vortex Beam Generation Using Multimode Pancharatnamâ€“Berry Metasurface. IEEE Transactions on Antennas and Propagation, 2017, 65, 7378-7382.	3.1	178
7	Generation of cylindrical vector vortex beams by two cascaded metasurfaces. Optics Express, 2014, 22, 17207.	1.7	176
8	Generation of arbitrary cylindrical vector beams on the higher order PoincarÃ© sphere. Optics Letters, 2014, 39, 5274.	1.7	157
9	Hybrid-order PoincarÃ© sphere. Physical Review A, 2015, 91, .	1.0	156
10	Interference-assisted kaleidoscopic meta-plexer for arbitrary spin-wavefront manipulation. Light: Science and Applications, 2019, 8, 3.	7.7	153
11	Dynamically controlling terahertz wavefronts with cascaded metasurfaces. Advanced Photonics, 2021, 3, .	6.2	138
12	Enhancing or suppressing the spin Hall effect of light in layered nanostructures. Physical Review A, 2011, 84, .	1.0	133
13	Photonic spin Hall effect enabled refractive index sensor using weak measurements. Scientific Reports, 2018, 8, 1221.	1.6	122
14	Realization of polarization evolution on higher-order PoincarÃ© sphere with metasurface. Applied Physics Letters, 2014, 104, .	1.5	121
15	Precision Measurement of the Optical Conductivity of Atomically Thin Crystals via the Photonic Spin Hall Effect. Physical Review Applied, 2020, 13, .	1.5	116
16	Deterministic Approach to Achieve Broadband Polarization-Independent Diffusive Scatterings Based on Metasurfaces. ACS Photonics, 2018, 5, 1691-1702.	3.2	113
17	Flexible control of highlyâ€directive emissions based on bifunctional metasurfaces with low polarization crossâ€talking. Annalen Der Physik, 2017, 529, 1700045.	0.9	95
18	Photonic spin Hall effect on the surface of anisotropic two-dimensional atomic crystals. Photonics Research, 2018, 6, 511.	3.4	95

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19	Wavevector and Frequency Multiplexing Performed by a Spinâ€Decoupled Multichannel Metasurface. Advanced Materials Technologies, 2020, 5, 1900710.	3.0	87
20	Ultrasensitive and real-time detection of chemical reaction rate based on the photonic spin Hall effect. APL Photonics, 2020, 5, 016105.	3.0	85
21	Photonic spin Hall effect in topological insulators. Physical Review A, 2013, 88, .	1.0	76
22	Spinâ€Encoded Wavelengthâ€Direction Multitasking Janus Metasurfaces. Advanced Optical Materials, 2021, 9, 2100190.	3.6	73
23	Wavenumberâ€Splitting Metasurfaces Achieve Multichannel Diffusive Invisibility. Advanced Optical Materials, 2018, 6, 1800010.	3.6	70
24	Photonic spin Hall effect in dielectric metasurfaces with rotational symmetry breaking. Optics Letters, 2015, 40, 756.	1.7	64
25	Flat Helical Nanosieves. Advanced Functional Materials, 2016, 26, 5255-5262.	7.8	64
26	Enhanced Photonic Spin Hall Effect Due to Surface Plasmon Resonance. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	59
27	Topologyâ€Induced Phase Transitions in Spinâ€Orbit Photonics. Laser and Photonics Reviews, 2021, 15, 2000492.	4.4	55
28	Realization of tunable spin-dependent splitting in intrinsic photonic spin Hall effect. Applied Physics Letters, 2014, 105, .	1.5	50
29	Gate-tuned graphene meta-devices for dynamically controlling terahertz wavefronts. Nanophotonics, 2022, 11, 2085-2096.	2.9	50
30	Revisiting the anomalous spin-Hall effect of light near the Brewster angle. Physical Review A, 2021, 103, .	1.0	43
31	Polarization evolution of vector beams generated by q-plates. Photonics Research, 2017, 5, 64.	3.4	40
32	Observation of Spin Hall Effect in Photon Tunneling via Weak Measurements. Scientific Reports, 2014, 4, 7388.	1.6	39
33	Deterministic Approach to Achieve Full-Polarization Cloak. Research, 2021, 2021, 6382172.	2.8	39
34	Realization of Tunable Photonic Spin Hall Effect by Tailoring the Pancharatnam-Berry Phase. Scientific Reports, 2014, 4, 5557.	1.6	37
35	Tripole-mode and quadrupole-mode solitons in (1â€‰+â€‰1)-dimensional nonlinear media with a spatial exponential-decay nonlocality. Scientific Reports, 2017, 7, 122.	1.6	37
36	Propagation model for vector beams generated by metasurfaces. Optics Express, 2016, 24, 21177.	1.7	36

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37	Observation of photonic spin Hall effect with phase singularity at dielectric metasurfaces. Optics Express, 2015, 23, 1767.	1.7	34
38	Characterization and manipulation of full PoincarÃ© beams on the hybrid PoincarÃ© sphere. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2172.	0.9	34
39	Actively manipulating asymmetric photonic spin Hall effect with graphene. Carbon, 2020, 166, 396-404.	5.4	32
40	Precise identification of graphene layers at the air-prism interface via a pseudo-Brewster angle. Optics Letters, 2017, 42, 4135.	1.7	30
41	Radial spin Hall effect of light. Physical Review A, 2016, 93, .	1.0	29
42	Vortex generation in the spin-orbit interaction of a light beam propagating inside a uniaxial medium: origin and efficiency. Optics Express, 2020, 28, 27258.	1.7	29
43	Transitional Goos-HÃnchen effect due to the topological phase transitions. Optics Express, 2018, 26, 23705.	1.7	28
44	Measurement of the optical constants of monolayer MoS2 via the photonic spin Hall effect. Applied Physics Letters, 2021, 118, .	1.5	28
45	Three-dimensional spin Hall effect of light in tight focusing. Physical Review A, 2020, 101, .	1.0	26
46	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
47	Steering far-field spin-dependent splitting of light by inhomogeneous anisotropic media. Physical Review A, 2012, 86, .	1.0	25
48	Unveiling the photonic spin Hall effect with asymmetric spin-dependent splitting. Optics Express, 2016, 24, 3025.	1.7	24
49	Measurements of Pancharatnamâ€“Berry phase in mode transformations on hybrid-order PoincarÃ© sphere. Optics Letters, 2017, 42, 3447.	1.7	24
50	Large in-plane asymmetric spin angular shifts of a light beam near the critical angle. Optics Letters, 2019, 44, 207.	1.7	23
51	Orbit-orbit interaction and photonic orbital Hall effect in reflection of a light beam. Chinese Physics B, 2014, 23, 064215.	0.7	22
52	Sensitivity Enhanced Refractive Index Sensor by Reducing the Influence of In-Plane Wavevector in Photonic Spin Hall Effect. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	16
53	Vortex mode decomposition of the topology-induced phase transitions in spin-orbit optics. Physical Review A, 2021, 104, .	1.0	16
54	Geometric spin Hall effect of light with inhomogeneous polarization. Optics Communications, 2017, 383, 412-417.	1.0	15

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55	Enhanced optical spatial differential operations via strong spin-orbit interactions in an anisotropic epsilon-near-zero slab. Physical Review A, 2021, 104, .	1.0	12
56	Beam shifts in two-dimensional atomic crystals. Journal Physics D: Applied Physics, 2022, 55, 133001.	1.3	8
57	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. Applied Physics Letters, 2022, 120, .	1.5	8
58	Generation of double-ring-shaped cylindrical vector beams by modulating Pancharatnamâ€“Berry phase. Optik, 2017, 134, 227-232.	1.4	7
59	Multiplexed Metasurfaces: Wavevector and Frequency Multiplexing Performed by a Spinâ€Đecoupled Multichannel Metasurface (Adv. Mater. Technol. 1/2020). Advanced Materials Technologies, 2020, 5, 2070005.	3.0	7
60	Spinâ€“orbit interactions in a nonlinear medium due to a nonlinear-induced geometric phase. Optics Letters, 2021, 46, 2758.	1.7	7
61	A Low-RCS and High-Gain Planar Circularly Polarized Cassegrain Meta-Antenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 5278-5287.	3.1	7
62	Metamaterial-based polarization control plate for producing incoherent laser irradiation. Applied Optics, 2012, 51, 4749.	0.9	6
63	Addition and subtraction operation of optical orbital angular momentum with dielectric metasurfaces. Optics Communications, 2015, 356, 456-462.	1.0	6
64	Enhancing the efficiency of the topological phase transitions in spinâ€“orbit photonics. Applied Physics Letters, 2022, 120, .	1.5	6
65	Broadband wide-angle polarization-independent diffusion using parabolic-phase metasurface. , 2018, , .		4
66	Generation of Bessel beam by manipulating Pancharatnam-Berry phase. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 044203.	0.2	4
67	Analytic Expressions for the Interaction of Modified Hollow Gaussian Beams in Highly Nonlocal Nonlinear Media. Journal of Russian Laser Research, 2015, 36, 440-447.	0.3	3
68	Transformation of photonic spin Hall effect from momentum space to position space. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1397.	0.9	3
69	Photonic Zitterbewegung effect: Asymmetric spatio-temporal filtering near the Dirac point. Optics Communications, 2014, 321, 96-99.	1.0	1
70	A method for generating double-ring-shaped vector beams. Chinese Physics B, 2016, 25, 074201.	0.7	1
71	Conversion of cylindrical vector beams on the higher-order Poincar sphere. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 154203.	0.2	1
72	Geometric phase gradient and spin Hall effect of light. Proceedings of SPIE, 2016, , .	0.8	0

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73	Manipulation of full PoincarÃ© beams on a hybrid PoincarÃ© sphere. , 2016, , .		0
74	Generation and representation of vector vortex beams based on metasurfaces. Proceedings of SPIE, 2016, , .	0.8	0
75	Wavenumber-Splitting Metasurfaces for Multi-Channel Diffusive invisibility. , 2018, , .		0
76	Realization of photonic spin Hall effect by breaking the rotation symmetry of optical field in lightâ€“matter interaction. Optics Communications, 2018, 427, 238-243.	1.0	0
77	Revisiting the photonic spin-Hall effect upon reflection and refraction. , 2021, , .		0