

Xinxing Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,740
citations

172207

29
h-index

128067

60
g-index

76
all docs

76
docs citations

76
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the spin Hall effect of light. Reports on Progress in Physics, 2017, 80, 066401.	8.1	360
2	Identifying graphene layers via spin Hall effect of light. Applied Physics Letters, 2012, 101, .	1.5	314
3	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
4	Experimental observation of the spin Hall effect of light on a nanometal film via weak measurements. Physical Review A, 2012, 85, .	1.0	242
5	Enhanced and switchable spin Hall effect of light near the Brewster angle on reflection. Physical Review A, 2011, 84, .	1.0	233
6	Generation of cylindrical vector vortex beams by two cascaded metasurfaces. Optics Express, 2014, 22, 17207.	1.7	176
7	Generation of arbitrary cylindrical vector beams on the higher order Poincaré sphere. Optics Letters, 2014, 39, 5274.	1.7	157
8	Hybrid-order Poincaré sphere. Physical Review A, 2015, 91, .	1.0	156
9	Enhancing or suppressing the spin Hall effect of light in layered nanostructures. Physical Review A, 2011, 84, .	1.0	133
10	Photonic spin Hall effect enabled refractive index sensor using weak measurements. Scientific Reports, 2018, 8, 1221.	1.6	122
11	Realization of polarization evolution on higher-order Poincaré sphere with metasurface. Applied Physics Letters, 2014, 104, .	1.5	121
12	Deep learning based atmospheric turbulence compensation for orbital angular momentum beam distortion and communication. Optics Express, 2019, 27, 16671.	1.7	96
13	Determination of magneto-optical constant of Fe films with weak measurements. Applied Physics Letters, 2014, 105, .	1.5	91
14	Photonic spin Hall effect in topological insulators. Physical Review A, 2013, 88, .	1.0	76
15	Photonic spin Hall effect in dielectric metasurfaces with rotational symmetry breaking. Optics Letters, 2015, 40, 756.	1.7	64
16	Enhanced Photonic Spin Hall Effect Due to Surface Plasmon Resonance. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	59
17	Controlling photonic spin Hall effect via exceptional points. Physical Review B, 2019, 100, .	1.1	55
18	Realization of tunable spin-dependent splitting in intrinsic photonic spin Hall effect. Applied Physics Letters, 2014, 105, .	1.5	50

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19	Modified weak measurements for the detection of the photonic spin Hall effect. <i>Physical Review A</i> , 2015, 91, .	1.0	46
20	All-Optical Signal Processing in Structured Light Multiplexing with Dielectric Meta-Optics. <i>ACS Photonics</i> , 2020, 7, 135-146.	3.2	46
21	Revisiting the anomalous spin-Hall effect of light near the Brewster angle. <i>Physical Review A</i> , 2021, 103, .	1.0	43
22	Optimal preselection and postselection in weak measurements for observing photonic spin Hall effect. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	41
23	Observation of Spin Hall Effect in Photon Tunneling via Weak Measurements. <i>Scientific Reports</i> , 2014, 4, 7388.	1.6	39
24	Realization of Tunable Photonic Spin Hall Effect by Tailoring the Pancharatnam-Berry Phase. <i>Scientific Reports</i> , 2014, 4, 5557.	1.6	37
25	Convolutional Neural Network Based Atmospheric Turbulence Compensation for Optical Orbital Angular Momentum Multiplexing. <i>Journal of Lightwave Technology</i> , 2020, 38, 1712-1721.	2.7	36
26	Graphene-Activated Optoplasmonic Nanomembrane Cavities for Photodegradation Detection. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15891-15897.	4.0	35
27	Observation of photonic spin Hall effect with phase singularity at dielectric metasurfaces. <i>Optics Express</i> , 2015, 23, 1767.	1.7	34
28	Actively manipulating asymmetric photonic spin Hall effect with graphene. <i>Carbon</i> , 2020, 166, 396-404.	5.4	32
29	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
30	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
31	Controllable photonic spin Hall effect with phase function construction. <i>Photonics Research</i> , 2020, 8, 963.	3.4	29
32	Measurement of the optical constants of monolayer MoS ₂ via the photonic spin Hall effect. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	28
33	Observation of tiny polarization rotation rate in total internal reflection via weak measurements. <i>Photonics Research</i> , 2017, 5, 92.	3.4	27
34	Three-dimensional spin Hall effect of light in tight focusing. <i>Physical Review A</i> , 2020, 101, .	1.0	26
35	Steering far-field spin-dependent splitting of light by inhomogeneous anisotropic media. <i>Physical Review A</i> , 2012, 86, .	1.0	25
36	Unveiling the spin Hall effect of light in Imbert-Fedorov shift at the Brewster angle with weak measurements. <i>Optics Express</i> , 2018, 26, 22934.	1.7	25

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37	Weak measurements of a large spin angular splitting of light beam on reflection at the Brewster angle. Optics Express, 2012, 20, 16003.	1.7	24
38	Unveiling the photonic spin Hall effect with asymmetric spin-dependent splitting. Optics Express, 2016, 24, 3025.	1.7	24
39	Detecting Orbital Angular Momentum Modes of Vortex Beams Using Feed-Forward Neural Network. Journal of Lightwave Technology, 2019, 37, 5848-5855.	2.7	24
40	Convolutional Neural Network-Assisted Optical Orbital Angular Momentum Recognition and Communication. IEEE Access, 2019, 7, 162025-162035.	2.6	24
41	Large in-plane asymmetric spin angular shifts of a light beam near the critical angle. Optics Letters, 2019, 44, 207.	1.7	23
42	Orbit-orbit interaction and photonic orbital Hall effect in reflection of a light beam. Chinese Physics B, 2014, 23, 064215.	0.7	22
43	Broadband graphene-on-silicon modulator with orthogonal hybrid plasmonic waveguides. Nanophotonics, 2020, 9, 1529-1538.	2.9	19
44	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
45	Identification of hybrid orbital angular momentum modes with deep feedforward neural network. Results in Physics, 2019, 15, 102790.	2.0	16
46	Geometric spin Hall effect of light with inhomogeneous polarization. Optics Communications, 2017, 383, 412-417.	1.0	15
47	Simultaneously precise estimations of phase and amplitude variations based on weak-value amplification. Applied Physics Letters, 2019, 114, .	1.5	14
48	Dielectric metasurfaces for quantum weak measurements. Applied Physics Letters, 2017, 110, .	1.5	13
49	Gas sensing near exceptional points. Journal Physics D: Applied Physics, 2021, 54, 254001.	1.3	11
50	Coherent Separation Detection for Orbital Angular Momentum Multiplexing in Free-Space Optical Communications. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	10
51	Weak measurements of the waist of an arbitrarily polarized beam via in-plane spin splitting. Optics Express, 2021, 29, 8777.	1.7	10
52	Optimal weak measurement in the photonic spin Hall effect for arbitrary linear polarization incidence. Optics Express, 2022, 30, 4096.	1.7	10
53	Spin Hall effect of a light beam in anisotropic metamaterials. Chinese Physics B, 2012, 21, 124201.	0.7	9
54	Spatial phase and polarization retrieval of arbitrary circular symmetry singular light beams using orthogonal polarization separation. Optics Express, 2019, 27, 27282.	1.7	9

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55	Tunable in-plane and transverse spin angular shifts in layered dielectric structure. Optics Express, 2019, 27, 32722.	1.7	9
56	Orbital angular momentum modes identification of optical vortices using binaural circular aperture. Journal of Optics (United Kingdom), 2019, 21, 065603.	1.0	8
57	Identification of optical orbital angular momentum modes with the Kerr nonlinearity of few-layer WS ₂ . 2D Materials, 2020, 7, 025012.	2.0	8
58	Beam shifts in two-dimensional atomic crystals. Journal Physics D: Applied Physics, 2022, 55, 133001.	1.3	8
59	Periodically manipulating the photonic spin Hall effect with an electric field. Applied Physics Express, 2019, 12, 092009.	1.1	7
60	Enhanced photonic spin Hall effect via singularity induced by destructive interference. Optics Letters, 2021, 46, 4883.	1.7	7
61	Two-dimensional optical edge detection based on Pancharatnam-Berry phase metasurface. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 014101.	0.2	7
62	Extracting atmospheric turbulence phase using deep convolutional neural network. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 014209.	0.2	7
63	Cross-polarization characteristics in spin Hall effect of light. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 194202.	0.2	6
64	Modes coded modulation of vector light beams using spatial phase cross-polarized modulation. Optics Communications, 2019, 432, 59-64.	1.0	5
65	Arbitrary Cylindrical Vector Beam Generation Using Cross-Polarized Modulation. IEEE Photonics Technology Letters, 2019, 31, 873-876.	1.3	3
66	Spin-orbit interaction of a light beam under normal incidence at a sharp interface and its enhancement. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 034202.	0.2	3
67	Spin hall effect of light in graphene. , 2012, , .		2
68	Switching the direction of spin accumulation in the spin Hall effect of light by adjusting the optical axis of an uniaxial crystal. Chinese Physics B, 2013, 22, 034101.	0.7	2
69	Two-Dimensional Material and Metasurface Based Optoelectronics. Advances in Condensed Matter Physics, 2019, 2019, 1-2.	0.4	2
70	Photonic spin Hall effect for precision metrology. , 2014, , .		1
71	Spin photonics and spin-photonic devices with dielectric metasurfaces. , 2015, , .		1
72	Effectively Identifying the Topological Charge and Polarization Order of Arbitrary Singular Light Beams Based on Orthogonal Polarization Separating. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	1

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73	Cross polarization effects of vortex beam in reflection. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 174202.	0.2	1
74	Transformation from asymmetric spin splitting to symmetric spin splitting with phase compensation in photonic spin Hall effect. Optics Express, 2022, 30, 14112.	1.7	1
75	Geometric phase gradient and spin Hall effect of light. Proceedings of SPIE, 2016, , .	0.8	0
76	A comparative study of the spin-orbit interactions in Pancharatnam-Berry phase elements and in normal incidence of a light beam at a sharp interface. , 2019, , .		0