Xinxing Zhou

List of Publications by Year
in descending order

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76 papers	3,740 citations	172386 29 h-index	128225 60 g-index
76 all docs	76 docs citations	76 times ranked	1659 citing authors

#	Article	IF	Citations
1	Beam shifts in two-dimensional atomic crystals. Journal Physics D: Applied Physics, 2022, 55, 133001.	1.3	8
2	Optimal weak measurement in the photonic spin Hall effect for arbitrary linear polarization incidence. Optics Express, 2022, 30, 4096.	1.7	10
3	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
4	Measurement of the optical constants of monolayer MoS2 via the photonic spin Hall effect. Applied Physics Letters, 2021, 118, .	1.5	28
5	Weak measurements of the waist of an arbitrarily polarized beam via in-plane spin splitting. Optics Express, 2021, 29, 8777.	1.7	10
6	Revisiting the anomalous spin-Hall effect of light near the Brewster angle. Physical Review A, 2021, 103, .	1.0	43
7	Gas sensing near exceptional points. Journal Physics D: Applied Physics, 2021, 54, 254001.	1.3	11
8	Enhanced photonic spin Hall effect via singularity induced by destructive interference. Optics Letters, 2021, 46, 4883.	1.7	7
9	Identification of optical orbital angular momentum modes with the Kerr nonlinearity of few-layer WS₂. 2D Materials, 2020, 7, 025012.	2.0	8
10	All-Optical Signal Processing in Structured Light Multiplexing with Dielectric Meta-Optics. ACS Photonics, 2020, 7, 135-146.	3.2	46
11	Actively manipulating asymmetric photonic spin Hall effect with graphene. Carbon, 2020, 166, 396-404.	5.4	32
12	Convolutional Neural Network Based Atmospheric Turbulence Compensation for Optical Orbital Angular Momentum Multiplexing. Journal of Lightwave Technology, 2020, 38, 1712-1721.	2.7	36
13	Three-dimensional spin Hall effect of light in tight focusing. Physical Review A, 2020, 101, .	1.0	26
14	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
15	Controllable photonic spin Hall effect with phase function construction. Photonics Research, 2020, 8, 963.	3.4	29
16	Broadband graphene-on-silicon modulator with orthogonal hybrid plasmonic waveguides. Nanophotonics, 2020, 9, 1529-1538.	2.9	19
17	Two-dimensional optical edge detection based on Pancharatnam-Berry phase metasurface. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 014101.	0.2	7
18	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

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19	Extracting atmospheric turbulence phase using deep convolutional neural network. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 014209.	0.2	7
20	Periodically manipulating the photonic spin Hall effect with an electric field. Applied Physics Express, 2019, 12, 092009.	1.1	7
21	Arbitrary Cylindrical Vector Beam Generation Using Cross-Polarized Modulation. IEEE Photonics Technology Letters, 2019, 31, 873-876.	1.3	3
22	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
23	Detecting Orbital Angular Momentum Modes of Vortex Beams Using Feed-Forward Neural Network. Journal of Lightwave Technology, 2019, 37, 5848-5855.	2.7	24
24	Controlling photonic spin Hall effect via exceptional points. Physical Review B, 2019, 100, .	1.1	55
25	Two-Dimensional Material and Metasurface Based Optoelectronics. Advances in Condensed Matter Physics, 2019, 2019, 1-2.	0.4	2
26	Orbital angular momentum modes identification of optical vortices using binaural circular aperture. Journal of Optics (United Kingdom), 2019, 21, 065603.	1.0	8
27	Simultaneously precise estimations of phase and amplitude variations based on weak-value amplification. Applied Physics Letters, 2019, 114, .	1.5	14
28	Graphene-Activated Optoplasmonic Nanomembrane Cavities for Photodegradation Detection. ACS Applied Materials & Interfaces, 2019, 11, 15891-15897.	4.0	35
29	Convolutional Neural Network-Assisted Optical Orbital Angular Momentum Recognition and Communication. IEEE Access, 2019, 7, 162025-162035.	2.6	24
30	Identification of hybrid orbital angular momentum modes with deep feedforward neural network. Results in Physics, 2019, 15, 102790.	2.0	16
31	Modes coded modulation of vector light beams using spatial phase cross-polarized modulation. Optics Communications, 2019, 432, 59-64.	1.0	5
32	Deep learning based atmospheric turbulence compensation for orbital angular momentum beam distortion and communication. Optics Express, 2019, 27, 16671.	1.7	96
33	Spatial phase and polarization retrieval of arbitrary circular symmetry singular light beams using orthogonal polarization separation. Optics Express, 2019, 27, 27282.	1.7	9
34	Large in-plane asymmetric spin angular shifts of a light beam near the critical angle. Optics Letters, 2019, 44, 207.	1.7	23
35	Tunable in-plane and transverse spin angular shifts in layered dielectric structure. Optics Express, 2019, 27, 32722.	1.7	9
36	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

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37	Photonic spin Hall effect enabled refractive index sensor using weak measurements. Scientific Reports, 2018, 8, 1221.	1.6	122
38	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
39	Unveiling the spin Hall effect of light in Imbert-Fedorov shift at the Brewster angle with weak measurements. Optics Express, 2018, 26, 22934.	1.7	25
40	Dielectric metasurfaces for quantum weak measurements. Applied Physics Letters, 2017, 110, .	1.5	13
41	Coherent Separation Detection for Orbital Angular Momentum Multiplexing in Free-Space Optical Communications. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	10
42	Recent advances in the spin Hall effect of light. Reports on Progress in Physics, 2017, 80, 066401.	8.1	360
43	Geometric spin Hall effect of light with inhomogeneous polarization. Optics Communications, 2017, 383, 412-417.	1.0	15
44	Precise identification of graphene layers at the air-prism interface via a pseudo-Brewster angle. Optics Letters, 2017, 42, 4135.	1.7	30
45	Observation of tiny polarization rotation rate in total internal reflection via weak measurements. Photonics Research, 2017, 5, 92.	3.4	27
46	Geometric phase gradient and spin Hall effect of light. Proceedings of SPIE, 2016, , .	0.8	0
47	Unveiling the photonic spin Hall effect with asymmetric spin-dependent splitting. Optics Express, 2016, 24, 3025.	1.7	24
48	Enhanced Photonic Spin Hall Effect Due to Surface Plasmon Resonance. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	59
49	Hybrid-order PoincarÃ© sphere. Physical Review A, 2015, 91, .	1.0	156
50	Photonic spin Hall effect in dielectric metasurfaces with rotational symmetry breaking. Optics Letters, 2015, 40, 756.	1.7	64
51	Observation of photonic spin Hall effect with phase singularity at dielectric metasurfaces. Optics Express, 2015, 23, 1767.	1.7	34
52	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
53	Modified weak measurements for the detection of the photonic spin Hall effect. Physical Review A, 2015, 91, .	1.0	46
54	Spin photonics and spin-photonic devices with dielectric metasurfaces. , 2015, , .		1

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55	Generation of arbitrary cylindrical vector beams on the higher order PoincarÃ© sphere. Optics Letters, 2014, 39, 5274.	1.7	157
56	Optimal preselection and postselection in weak measurements for observing photonic spin Hall effect. Applied Physics Letters, 2014, 104, .	1.5	41
57	Realization of tunable spin-dependent splitting in intrinsic photonic spin Hall effect. Applied Physics Letters, 2014, 105, .	1.5	50
58	Determination of magneto-optical constant of Fe films with weak measurements. Applied Physics Letters, 2014, 105, .	1.5	91
59	Photonic spin Hall effect for precision metrology. , 2014, , .		1
60	Orbit-orbit interaction and photonic orbital Hall effect in reflection of a light beam. Chinese Physics B, 2014, 23, 064215.	0.7	22
61	Generation of cylindrical vector vortex beams by two cascaded metasurfaces. Optics Express, 2014, 22, 17207.	1.7	176
62	Realization of polarization evolution on higher-order PoincarÃ© sphere with metasurface. Applied Physics Letters, 2014, 104, .	1.5	121
63	Observation of Spin Hall Effect in Photon Tunneling via Weak Measurements. Scientific Reports, 2014, 4, 7388.	1.6	39
64	Realization of Tunable Photonic Spin Hall Effect by Tailoring the Pancharatnam-Berry Phase. Scientific Reports, 2014, 4, 5557.	1.6	37
65	Photonic spin Hall effect in topological insulators. Physical Review A, 2013, 88, .	1.0	76
66	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
67	Cross polarization effects of vortex beam in reflection. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 174202.	0.2	1
68	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
69	Spin Hall effect of a light beam in anisotropic metamaterials. Chinese Physics B, 2012, 21, 124201.	0.7	9
70	Steering far-field spin-dependent splitting of light by inhomogeneous anisotropic media. Physical Review A, 2012, 86, .	1.0	25
71	Identifying graphene layers via spin Hall effect of light. Applied Physics Letters, 2012, 101, .	1.5	314
72	Spin hall effect of light in graphene. , 2012, , .		2

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73	Experimental observation of the spin Hall effect of light on a nanometal film via weak measurements. Physical Review A, 2012, 85, .	1.0	242
74	Cross-polarizaton characteristics in spin Hall effect of light. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 194202.	0.2	6
75	Enhanced and switchable spin Hall effect of light near the Brewster angle on reflection. Physical Review A, 2011, 84, .	1.0	233
76	Enhancing or suppressing the spin Hall effect of light in layered nanostructures. Physical Review A, 2011, 84, .	1.0	133