

Weixing Shu

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,256
citations

236925

25
h-index

214800

47
g-index

57
all docs

57
docs citations

57
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	16.6	245
2	Enhanced and switchable spin Hall effect of light near the Brewster angle on reflection. <i>Physical Review A</i> , 2011, 84, .	2.5	233
3	Generation of arbitrary vector vortex beams on hybrid-order Poincaré sphere. <i>Photonics Research</i> , 2017, 5, 15.	7.0	169
4	Enhancing or suppressing the spin Hall effect of light in layered nanostructures. <i>Physical Review A</i> , 2011, 84, .	2.5	133
5	Precision Measurement of the Optical Conductivity of Atomically Thin Crystals via the Photonic Spin Hall Effect. <i>Physical Review Applied</i> , 2020, 13, .	3.8	116
6	Photonic spin Hall effect on the surface of anisotropic two-dimensional atomic crystals. <i>Photonics Research</i> , 2018, 6, 511.	7.0	95
7	Quantized photonic spin Hall effect in graphene. <i>Physical Review A</i> , 2017, 95, .	2.5	90
8	Spatial differential operation and edge detection based on the geometric spin Hall effect of light. <i>Optics Letters</i> , 2020, 45, 877.	3.3	89
9	Spin Hall effect of a light beam in left-handed materials. <i>Physical Review A</i> , 2009, 80, .	2.5	87
10	Ultrasensitive and real-time detection of chemical reaction rate based on the photonic spin Hall effect. <i>APL Photonics</i> , 2020, 5, 016105.	5.7	85
11	Wavelength-independent optical fully differential operation based on the spin-orbit interaction of light. <i>APL Photonics</i> , 2020, 5, .	5.7	53
12	Realization of tunable spin-dependent splitting in intrinsic photonic spin Hall effect. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	50
13	Enhancing and tuning absorption properties of microwave absorbing materials using metamaterials. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	45
14	Spin Hall effect of light in photon tunneling. <i>Physical Review A</i> , 2010, 82, .	2.5	44
15	Goos-Hänchen and Imbert-Fedorov effects in Weyl semimetals. <i>Physical Review A</i> , 2019, 99, .	2.5	43
16	Electrically driven generation of arbitrary vector vortex beams on the hybrid-order Poincaré sphere. <i>Optics Letters</i> , 2018, 43, 3570.	3.3	42
17	Polarization evolution of vector beams generated by q-plates. <i>Photonics Research</i> , 2017, 5, 64.	7.0	40
18	Realization of Tunable Photonic Spin Hall Effect by Tailoring the Pancharatnam-Berry Phase. <i>Scientific Reports</i> , 2014, 4, 5557.	3.3	37

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19	Propagation model for vector beams generated by metasurfaces. <i>Optics Express</i> , 2016, 24, 21177.	3.4	36
20	Reversed propagation dynamics of Laguerre-Gaussian beams in left-handed materials. <i>Physical Review A</i> , 2008, 77, .	2.5	31
21	Precise identification of graphene layers at the air-prism interface via a pseudo-Brewster angle. <i>Optics Letters</i> , 2017, 42, 4135.	3.3	30
22	Radial spin Hall effect of light. <i>Physical Review A</i> , 2016, 93, .	2.5	29
23	Transitional Goos-Hänchen effect due to the topological phase transitions. <i>Optics Express</i> , 2018, 26, 23705.	3.4	28
24	Measurement of the optical constants of monolayer MoS ₂ via the photonic spin Hall effect. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	28
25	Three-dimensional spin Hall effect of light in tight focusing. <i>Physical Review A</i> , 2020, 101, .	2.5	26
26	Construct a polarizing beam splitter by an anisotropic metamaterial slab. <i>Applied Physics B: Lasers and Optics</i> , 2007, 87, 283-287.	2.2	25
27	Role of transverse-momentum currents in the optical Magnus effect in free space. <i>Physical Review A</i> , 2010, 81, .	2.5	25
28	Measurements of Pancharatnam's Berry phase in mode transformations on hybrid-order Poincaré sphere. <i>Optics Letters</i> , 2017, 42, 3447.	3.3	24
29	Superluminal group velocity in an anisotropic metamaterial. <i>Europhysics Letters</i> , 2006, 74, 1081-1087.	2.0	23
30	Rotational Doppler effect in left-handed materials. <i>Physical Review A</i> , 2008, 78, .	2.5	23
31	Brewster angle for anisotropic materials from the extinction theorem. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 297-303.	2.3	21
32	Weak-value amplification for Weyl-point separation in momentum space. <i>New Journal of Physics</i> , 2018, 20, 103050.	2.9	21
33	Construction of a polarization insensitive lens from a quasi-isotropic metamaterial slab. <i>Physical Review E</i> , 2007, 75, 026601.	2.1	20
34	Generation of optical beams with desirable orbital angular momenta by transformation media. <i>Physical Review A</i> , 2012, 85, .	2.5	20
35	Generation of perfect vector beams based on the combined modulation of dynamic and geometric phases. <i>Optics Communications</i> , 2019, 446, 191-195.	2.1	17
36	Focusing and phase compensation of paraxial beams by a left-handed material slab. <i>Optics Communications</i> , 2006, 266, 327-331.	2.1	15

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37	Wave propagation in an anisotropic metamaterial with single-sheeted hyperboloid dispersion relation. Applied Physics A: Materials Science and Processing, 2007, 87, 245-249.	2.3	15
38	Quantum states with negative energy density in the Dirac field and quantum inequalities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 570, 123-128.	4.1	13
39	Spin-to-orbital angular momentum conversion in spin Hall effect of light. Optics Communications, 2012, 285, 864-871.	2.1	12
40	Flat designs of impedance-matched nonmagnetic phase transformer and wave-shaping polarization splitter via transformation optics. Optics Communications, 2015, 338, 307-312.	2.1	12
41	Computing metasurfaces enabled chiral edge image sensing. IScience, 2022, 25, 104532.	4.1	11
42	Generation of pure Laguerre-Gaussian vector beams on the higher-order Poincaré sphere by hollow Gaussian beams through dielectric metasurfaces. Optics Communications, 2019, 439, 27-33.	2.1	10
43	Focusing of vectorial fields by a slab of indefinite media. Journal of Optics, 2009, 11, 105103.	1.5	9
44	Anomalous wave propagation in quasisotropic media. Optics Communications, 2006, 267, 271-277.	2.1	7
45	Compact photonic spin filters. Applied Physics Letters, 2016, 109, 181104.	3.3	7
46	Chaotic phase oscillation of a proton beam in a synchrotron. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 104-109.	2.1	5
47	The role of dispersion in the propagation of rotating beams in left-handed materials. Optics Express, 2009, 17, 5645.	3.4	5
48	Large cross-polarization rotation of light on graphene. Applied Physics Letters, 2021, 119, .	3.3	5
49	Doppler effect of Laguerre-Gaussian beams propagating in left-handed materials. , 2008, , .		3
50	Flexible generation of vector beams based on the noncommutation of Pancharatnamâ€™Berry phase elements. Optics Communications, 2019, 443, 156-159.	2.1	2
51	Enhancing microwave absorption properties of materials using metamaterials. , 2008, , .		1
52	Three-dimensional phase transformation by impedance-matched dielectric slabs and generation of hollow beams based on transformation optics. Optics Communications, 2016, 376, 99-106.	2.1	1
53	Omnidirectional linear polarizer based on uniaxial dielectric-magnetic materials. , 2008, , .		0
54	Integral Equation Method for Electromagnetic Wave Propagation in Stratified Anisotropic Dielectric-Magnetic Materials. Communications in Theoretical Physics, 2010, 54, 879-885.	2.5	0

#	ARTICLE	IF	CITATIONS
55	Green's function integral equation method for propagation of electromagnetic waves in an anisotropic dielectric-magnetic slab. , 2010, , .		0
56	Realization of photonic spin Hall effect by breaking the rotation symmetry of optical field in light-matter interaction. Optics Communications, 2018, 427, 238-243.	2.1	0
57	Spatial evolution of polarization in the spin Hall effect of light on reflection. , 2021, , .		0