Weixing Shu

List of Publications by Year
in descending order

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Version: 2024-02-01

57	2,256	270111	242451
papers	citations	25	47
		h-index	g-index

57	57	57	1410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computing metasurfaces enabled chiral edge image sensing. IScience, 2022, 25, 104532.	1.9	11
2	Measurement of the optical constants of monolayer MoS2 via the photonic spin Hall effect. Applied Physics Letters, 2021, 118, .	1.5	28
3	Spatial evolution of polarization in the spin Hall effect of light on reflection. , 2021, , .		0
4	Large cross-polarization rotation of light on graphene. Applied Physics Letters, 2021, 119, .	1.5	5
5	Wavelength-independent optical fully differential operation based on the spinâ€“orbit interaction of light. APL Photonics, 2020, 5, .	3.0	53
6	Ultrasensitive and real-time detection of chemical reaction rate based on the photonic spin Hall effect. APL Photonics, 2020, 5, 016105.	3.0	85
7	Three-dimensional spin Hall effect of light in tight focusing. Physical Review A, 2020, 101, .	1.0	26
8	Precision Measurement of the Optical Conductivity of Atomically Thin Crystals via the Photonic Spin Hall Effect. Physical Review Applied, 2020, 13, .	1.5	116
9	Spatial differential operation and edge detection based on the geometric spin Hall effect of light. Optics Letters, 2020, 45, 877.	1.7	89
10	Generation of pure Laguerre-Gaussian vector beams on the higher-order PoincarÃ© sphere by hollow Gaussian beams through dielectric metasurfaces. Optics Communications, 2019, 439, 27-33.	1.0	10
11	Goos-HÃnchen and Imbert-Fedorov effects in Weyl semimetals. Physical Review A, 2019, 99, .	1.0	43
12	Generation of perfect vector beams based on the combined modulation of dynamic and geometric phases. Optics Communications, 2019, 446, 191-195.	1.0	17
13	Flexible generation of vector beams based on the noncommutation of Pancharatnamâ€“Berry phase elements. Optics Communications, 2019, 443, 156-159.	1.0	2
14	Weak-value amplification for Weyl-point separation in momentum space. New Journal of Physics, 2018, 20, 103050.	1.2	21
15	Transitional Goos-HÃnchen effect due to the topological phase transitions. Optics Express, 2018, 26, 23705.	1.7	28
16	Photonic spin Hall effect on the surface of anisotropic two-dimensional atomic crystals. Photonics Research, 2018, 6, 511.	3.4	95
17	Electrically driven generation of arbitrary vector vortex beams on the hybrid-order PoincarÃ© sphere. Optics Letters, 2018, 43, 3570.	1.7	42
18	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

#	Article	IF	Citations
19	Quantized photonic spin Hall effect in graphene. Physical Review A, 2017, 95, .	1.0	90
20	Precise identification of graphene layers at the air-prism interface via a pseudo-Brewster angle. Optics Letters, 2017, 42, 4135.	1.7	30
21	Polarization evolution of vector beams generated by q-plates. Photonics Research, 2017, 5, 64.	3.4	40
22	Measurements of Pancharatnamâ€“Berry phase in mode transformations on hybrid-order PoincarÃ© sphere. Optics Letters, 2017, 42, 3447.	1.7	24
23	Generation of arbitrary vector vortex beams on hybrid-order PoincarÃ© sphere. Photonics Research, 2017, 5, 15.	3.4	169
24	Compact photonic spin filters. Applied Physics Letters, 2016, 109, 181104.	1.5	7
25	Three-dimensional phase transformation by impedance-matched dielectric slabs and generation of hollow beams based on transformation optics. Optics Communications, 2016, 376, 99-106.	1.0	1
26	Propagation model for vector beams generated by metasurfaces. Optics Express, 2016, 24, 21177.	1.7	36
27	Radial spin Hall effect of light. Physical Review A, 2016, 93, .	1.0	29
28	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
29	Flat designs of impedance-matched nonmagnetic phase transformer and wave-shaping polarization splitter via transformation optics. Optics Communications, 2015, 338, 307-312.	1.0	12
30	Realization of tunable spin-dependent splitting in intrinsic photonic spin Hall effect. Applied Physics Letters, 2014, 105, .	1.5	50
31	Realization of Tunable Photonic Spin Hall Effect by Tailoring the Pancharatnam-Berry Phase. Scientific Reports, 2014, 4, 5557.	1.6	37
32	Generation of optical beams with desirable orbital angular momenta by transformation media. Physical Review A, 2012, 85, .	1.0	20
33	Spin-to-orbital angular momentum conversion in spin Hall effect of light. Optics Communications, 2012, 285, 864-871.	1.0	12
34	Enhanced and switchable spin Hall effect of light near the Brewster angle on reflection. Physical Review A, 2011, 84, .	1.0	233
35	Enhancing or suppressing the spin Hall effect of light in layered nanostructures. Physical Review A, 2011, 84, .	1.0	133
36	Integral Equation Method for Electromagnetic Wave Propagation in Stratified Anisotropic Dielectric-Magnetic Materials. Communications in Theoretical Physics, 2010, 54, 879-885.	1.1	0

#	Article	IF	Citations
37	Spin Hall effect of light in photon tunneling. Physical Review A, 2010, 82, .	1.0	44
38	Green's function integral equation method for propagation of electromagnetic waves in an anisotropic dielectric-magnetic slab. , 2010, , .		0
39	Role of transverse-momentum currents in the optical Magnus effect in free space. Physical Review A, 2010, 81, .	1.0	25
40	Spin Hall effect of a light beam in left-handed materials. Physical Review A, 2009, 80, .	1.0	87
41	The role of dispersion in the propagation of rotating beams in left-handed materials. Optics Express, 2009, 17, 5645.	1.7	5
42	Focusing of vectorial fields by a slab of indefinite media. Journal of Optics, 2009, 11, 105103.	1.5	9
43	Enhancing microwave absorption properties of materials using metamaterials. , 2008, , .		1
44	Doppler effect of Laguerre-Gaussian beams propagating in left-handed materials. , 2008, , .		3
45	Enhancing and tuning absorption properties of microwave absorbing materials using metamaterials. Applied Physics Letters, 2008, 93, .	1.5	45
46	Omnidirectional linear polarizer based on uniaxial dielectric-magnetic materials. , 2008, , .		0
47	Rotational Doppler effect in left-handed materials. Physical Review A, 2008, 78, .	1.0	23
48	Reversed propagation dynamics of Laguerre-Gaussian beams in left-handed materials. Physical Review A, 2008, 77, .	1.0	31
49	Construction of a polarization insensitive lens from a quasi-isotropic metamaterial slab. Physical Review E, 2007, 75, 026601.	0.8	20
50	Wave propagation in an anisotropic metamaterial with single-sheeted hyperboloid dispersion relation. Applied Physics A: Materials Science and Processing, 2007, 87, 245-249.	1.1	15
51	Brewster angle for anisotropic materials from the extinction theorem. Applied Physics A: Materials Science and Processing, 2007, 87, 297-303.	1.1	21
52	Construct a polarizing beam splitter by an anisotropic metamaterial slab. Applied Physics B: Lasers and Optics, 2007, 87, 283-287.	1.1	25
53	Focusing and phase compensation of paraxial beams by a left-handed material slab. Optics Communications, 2006, 266, 327-331.	1.0	15
54	Chaotic phase oscillation of a proton beam in a synchrotron. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 104-109.	0.9	5

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55	Anomalous wave propagation in quasiisotropic media. Optics Communications, 2006, 267, 271-277.	1.0	7
56	Superluminal group velocity in an anisotropic metamaterial. Europhysics Letters, 2006, 74, 1081-1087.	0.7	23
57	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.	1.5	13