Yachao Liu

List of Publications by Year
in descending order

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31 papers	2,298 citations	331670 21 h-index	454955 30 g-index
31 all docs	31 docs citations	31 times ranked	1525 citing authors

#	Article	IF	Citations
1	Recent advances in the spin Hall effect of light. Reports on Progress in Physics, 2017, 80, 066401.	20.1	360
2	Giant photonic spin Hall effect in momentum space in a structured metamaterial with spatially varying birefringence. Light: Science and Applications, 2015, 4, e290-e290.	16.6	245
3	Generation of cylindrical vector vortex beams by two cascaded metasurfaces. Optics Express, 2014, 22, 17207.	3.4	176
4	Generation of arbitrary vector vortex beams on hybrid-order PoincarÃ© sphere. Photonics Research, 2017, 5, 15.	7.0	169
5	Generation of arbitrary cylindrical vector beams on the higher order PoincarÃ© sphere. Optics Letters, 2014, 39, 5274.	3.3	157
6	Hybrid-order PoincarÃ© sphere. Physical Review A, 2015, 91, .	2.5	156
7	Generation of perfect vortex and vector beams based on Pancharatnam-Berry phase elements. Scientific Reports, 2017, 7, 44096.	3.3	136
8	Photonic spin Hall effect in metasurfaces: a brief review. Nanophotonics, 2017, 6, 51-70.	6.0	126
9	Realization of polarization evolution on higher-order PoincarÃ© sphere with metasurface. Applied Physics Letters, 2014, 104, .	3.3	121
10	Quantized photonic spin Hall effect in graphene. Physical Review A, 2017, 95, .	2.5	90
11	Generation of Airy vortex and Airy vector beams based on the modulation of dynamic and geometric phases. Optics Letters, 2015, 40, 3193.	3.3	89
12	Photonic spin Hall effect in dielectric metasurfaces with rotational symmetry breaking. Optics Letters, 2015, 40, 756.	3.3	64
13	Realization of tunable spin-dependent splitting in intrinsic photonic spin Hall effect. Applied Physics Letters, 2014, 105, .	3.3	50
14	Higher-order laser mode converters with dielectric metasurfaces. Optics Letters, 2015, 40, 5506.	3.3	41
15	Optical integration of Pancharatnam-Berry phase lens and dynamical phase lens. Applied Physics Letters, 2016, 108, .	3.3	40
16	Polarization evolution of vector beams generated by q-plates. Photonics Research, 2017, 5, 64.	7.0	40
17	Propagation model for vector beams generated by metasurfaces. Optics Express, 2016, 24, 21177.	3.4	36
18	Observation of photonic spin Hall effect with phase singularity at dielectric metasurfaces. Optics Express, 2015, 23, 1767.	3.4	34

#	Article	IF	Citations
19	Radial spin Hall effect of light. Physical Review A, 2016, 93, .	2.5	29
20	Spin-dependent manipulating of vector beams by tailoring polarization. Scientific Reports, 2016, 6, 34276.	3.3	24
21	Realization of spin-dependent splitting with arbitrary intensity patterns based on all-dielectric metasurfaces. Applied Physics Letters, 2015, 107, .	3.3	23
22	Photonic Hall effect and helical Zitterbewegung in a synthetic Weyl system. Light: Science and Applications, 2019, 8, 49.	16.6	21
23	Geometric phase Doppler effect: when structured light meets rotating structured materials. Optics Express, 2017, 25, 11564.	3.4	16
24	Photonic spin filter with dielectric metasurfaces. Optics Express, 2015, 23, 33079.	3.4	13
25	A Nonlocal Effective Medium Description of Topological Weyl Metamaterials. Laser and Photonics Reviews, 2021, 15, 2100129.	8.7	13
26	Manipulating the spin-dependent splitting by geometric Doppler effect. Optics Express, 2015, 23, 16682.	3.4	12
27	Compact photonic spin filters. Applied Physics Letters, 2016, 109, 181104.	3.3	7
28	Addition and subtraction operation of optical orbital angular momentum with dielectric metasurfaces. Optics Communications, 2015, 356, 456-462.	2.1	6
29	Spin-photonic devices based on optical integration of Pancharatnam-Berry phase elements. Proceedings of SPIE, 2016, , .	0.8	2
30	Spin photonics and spin-photonic devices with dielectric metasurfaces. , 2015, , .		1
31	Beam Manipulations With Compact Planar Dielectric Pancharatnamâ€“Berry Phase Devices. Frontiers in Physics, 2022, 10, .	2.1	1