Tong Liu

List of Publications by Year
in descending order

41 papers	570 citations	623734 14 h-index	677142 22 g-index
41 all docs	41 docs citations	41 times ranked	255 citing authors

#	Article	IF	Citations
1	Directly measuring mode purity of single component in known superposed optical vortices. Optics Communications, 2022, 508, 127600.	2.1	3
2	Non-Contact Ultralow Rotational Speed Measurement of Real Objects Based on Rotational Doppler Velocimetry. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	6
3	Compound motion detection based on OAM interferometry. Nanophotonics, 2022, 11, 1127-1135.	6.0	27
4	Two-dimensional imaging method based on orbital angular momentum of optical vortex. , 2022, , .		0
5	Detection of a spinning object with circular procession using an optical vortex beam. Optics Letters, 2022, 47, 2398-2401.	3.3	7
6	Locating the center of rotation of a planar object using an optical vortex. Applied Optics, 2022, 61, 3919.	1.8	6
7	Rotational object detection at noncoaxial light incidence based on the rotational Doppler effect. Optics Express, 2022, 30, 20441.	3.4	15
8	Generation of spiral optical vortex with varying OAM for micro-manipulation. Optics Communications, 2022, 524, 128767.	2.1	6
9	Wavefront distortion correction of superposed optical vortices based on deep multi-branch compensation network. Optics and Lasers in Engineering, 2022, 158, 107132.	3.8	3
10	Direction-sensitive detection of a spinning object using dual-frequency vortex light. Optics Express, 2021, 29, 7453.	3.4	24
11	Doppler effect of polarization grating. Applied Optics, 2021, 60, 2788.	1.8	1
12	Rotational Doppler effect detection by LG beams with a nonzero radial index. Optics Express, 2021, 29, 10275.	3.4	16
13	Generating a new type of polygonal perfect optical vortex. Optics Express, 2021, 29, 14126.	3.4	19
14	Analysis of misaligned optical rotational Doppler effect by modal decomposition. Optics Express, 2021, 29, 15288.	3.4	24
15	Directly observing the skew angle of a Poynting vector in an OAM carrying beam via angular diffraction. Optics Letters, 2021, 46, 3484.	3.3	12
16	Observation of the rotational Doppler shift of the ring Airy Gaussian vortex beam. Optics Communications, 2021, 490, 126900.	2.1	11
17	Measurement and shaping of circular Airy vortex via cross-phase. Optics Communications, 2021, 497, 127185.	2.1	12
18	Mode analyzer for known optical vortices from a spatial light modulator with collinear holography. Applied Optics, 2021, 60, 9706.	1.8	3

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19	Spinning object detection based on perfect optical vortex. Optics and Lasers in Engineering, 2020, 124, 105842.	3.8	36
20	Spin splitting in a MoS2 monolayer induced by exciton interaction. Physical Review B, 2020, 101, .	3.2	1
21	Generation and measurement of high-order optical vortices by using the cross phase. Applied Optics, 2020, 59, 4040.	1.8	21
22	Polygonal shaping and multi-singularity manipulation of optical vortices via high-order cross-phase. Optics Express, 2020, 28, 26257.	3.4	29
23	New kind of Hermite–Gaussian-like optical vortex generated by cross phase. Chinese Optics Letters, 2020, 18, 100501.	2.9	4
24	Rotational dynamics characteristics of planar superimposed vortices of exciton polariton condensates. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 230303.	0.5	3
25	Detection of spinning objects at oblique light incidence using the optical rotational Doppler effect: erratum. Optics Express, 2020, 28, 16633.	3.4	5
26	Theoretical research on rotating doppler effect based on fringe model. , 2020, , .		0
27	Influence of lateral misalignment on the optical rotational Doppler effect. Applied Optics, 2019, 58, 2650.	1.8	56
28	Detection of spinning objects at oblique light incidence using the optical rotational Doppler effect. Optics Express, 2019, 27, 24781.	3.4	53
29	Generation of optical vortices by exciton polaritons in pillar semiconductor microcavities. Optics Express, 2018, 26, 22273.	3.4	14
30	Generating optical vortex with large topological charges by spiral phase plates in cascaded and double-pass configuration. Optik, 2018, 171, 404-412.	2.9	9
31	High-power, cladding-pumped all-fiber laser with selective transverse mode generation property. Applied Optics, 2017, 56, 4967.	2.1	16
32	Selective transverse mode operation of an all-fiber laser with a mode-selective fiber Bragg grating pair. Optics Letters, 2016, 41, 5692.	3.3	67
33	A fast recognition algorithm for suspicious behavior in high definition videos. Multimedia Systems, 2016, 22, 275-285.	4.7	21
34	Optimized human targets detection in surveillance scenes. , 2015, , .		0
35	A liana model for 3D finger vein representation. , 2015, , .		1
36	Design and analysis of seven-core photonic crystal fiber for high-power visible supercontinuum generation. Optical Engineering, 2015, 54, 066102.	1.0	9

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37	Finger-vein recognition with modified binary tree model. Neural Computing and Applications, 2015, 26, 969-977.	5.6	11
38	All-Fiber-Integrated High-Power Supercontinuum Sources Based on Multi-Core Photonic Crystal Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 64-71.	2.9	12
39	AN ALGORITHM FOR SMOKE ROF DETECTION BASED ON SURVEILLANCE VIDEO. Journal of Circuits, Systems and Computers, 2013, 22, 1350010.	1.5	1
40	A fast two-dimensional entropic thresholding algorithm. , 2008, , .		1
41	Rotational Doppler Effect With Vortex Beams: Fundamental Mechanism and Technical Progress. Frontiers in Physics, 0, 10, .	2.1	5