Tong Liu

List of Publications by Year
in descending order

41	570	623734 14	677142 22
papers	citations	h-index	g-index

41	41	41	255
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Influence of lateral misalignment on the optical rotational Doppler effect. Applied Optics, 2019, 58, 2650.	1.8	56
3	Detection of spinning objects at oblique light incidence using the optical rotational Doppler effect. Optics Express, 2019, 27, 24781.	3.4	53
4	Spinning object detection based on perfect optical vortex. Optics and Lasers in Engineering, 2020, 124, 105842.	3.8	36
5	Polygonal shaping and multi-singularity manipulation of optical vortices via high-order cross-phase. Optics Express, 2020, 28, 26257.	3.4	29
6	Compound motion detection based on OAM interferometry. Nanophotonics, 2022, 11, 1127-1135.	6.0	27
7	Direction-sensitive detection of a spinning object using dual-frequency vortex light. Optics Express, 2021, 29, 7453.	3.4	24
8	Analysis of misaligned optical rotational Doppler effect by modal decomposition. Optics Express, 2021, 29, 15288.	3.4	24
9	A fast recognition algorithm for suspicious behavior in high definition videos. Multimedia Systems, 2016, 22, 275-285.	4.7	21
10	Generation and measurement of high-order optical vortices by using the cross phase. Applied Optics, 2020, 59, 4040.	1.8	21
11	Generating a new type of polygonal perfect optical vortex. Optics Express, 2021, 29, 14126.	3.4	19
12	High-power, cladding-pumped all-fiber laser with selective transverse mode generation property. Applied Optics, 2017, 56, 4967.	2.1	16
13	Rotational Doppler effect detection by LG beams with a nonzero radial index. Optics Express, 2021, 29, 10275.	3.4	16
14	Rotational object detection at noncoaxial light incidence based on the rotational Doppler effect. Optics Express, 2022, 30, 20441.	3.4	15
15	Generation of optical vortices by exciton polaritons in pillar semiconductor microcavities. Optics Express, 2018, 26, 22273.	3.4	14
16	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
17	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
18	Measurement and shaping of circular Airy vortex via cross-phase. Optics Communications, 2021, 497, 127185.	2.1	12

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19	Finger-vein recognition with modified binary tree model. Neural Computing and Applications, 2015, 26, 969-977.	5.6	11
20	Observation of the rotational Doppler shift of the ring Airy Gaussian vortex beam. Optics Communications, 2021, 490, 126900.	2.1	11
21	Design and analysis of seven-core photonic crystal fiber for high-power visible supercontinuum generation. Optical Engineering, 2015, 54, 066102.	1.0	9
22	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
23	Detection of a spinning object with circular procession using an optical vortex beam. Optics Letters, 2022, 47, 2398-2401.	3.3	7
24	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
25	Locating the center of rotation of a planar object using an optical vortex. Applied Optics, 2022, 61, 3919.	1.8	6
26	Generation of spiral optical vortex with varying OAM for micro-manipulation. Optics Communications, 2022, 524, 128767.	2.1	6
27	Detection of spinning objects at oblique light incidence using the optical rotational Doppler effect: erratum. Optics Express, 2020, 28, 16633.	3.4	5
28	Rotational Doppler Effect With Vortex Beams: Fundamental Mechanism and Technical Progress. Frontiers in Physics, 0, 10, .	2.1	5
29	New kind of Hermiteâ€“Gaussian-like optical vortex generated by cross phase. Chinese Optics Letters, 2020, 18, 100501.	2.9	4
30	Mode analyzer for known optical vortices from a spatial light modulator with collinear holography. Applied Optics, 2021, 60, 9706.	1.8	3
31	Rotational dynamics characteristics of planar superimposed vortices of exciton polariton condensates. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 230303.	0.5	3
32	Directly measuring mode purity of single component in known superposed optical vortices. Optics Communications, 2022, 508, 127600.	2.1	3
33	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
34	A fast two-dimensional entropic thresholding algorithm. , 2008, , .		1
35	AN ALGORITHM FOR SMOKE ROF DETECTION BASED ON SURVEILLANCE VIDEO. Journal of Circuits, Systems and Computers, 2013, 22, 1350010.	1.5	1
36	A liana model for 3D finger vein representation. , 2015, , .		1

#	Article	IF	Citations
37	Spin splitting in a MoS2 monolayer induced by exciton interaction. Physical Review B, 2020, 101, .	3.2	1
38	Doppler effect of polarization grating. Applied Optics, 2021, 60, 2788.	1.8	1
39	Optimized human targets detection in surveillance scenes. , 2015, , .		0
40	Theoretical research on rotating doppler effect based on fringe model. , 2020, , .		0
41	Two-dimensional imaging method based on orbital angular momentum of optical vortex. , 2022, , .		0