

Xiang Hao

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

1,846
citations

393982

19
h-index

288905

40
g-index

101
all docs

101
docs citations

101
times ranked

1341
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase encoding for sharper focus of the azimuthally polarized beam. <i>Optics Letters</i> , 2010, 35, 3928.	1.7	202
2	Effects of polarization on the de-excitation dark focal spot in STED microscopy. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 115707.	1.0	170
3	Microsphere based microscope with optical super-resolution capability. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	155
4	Breaking the Diffraction Barrier Using Fluorescence Emission Difference Microscopy. <i>Scientific Reports</i> , 2013, 3, 1441.	1.6	131
5	Freeform surface lens for LED uniform illumination. <i>Applied Optics</i> , 2009, 48, 6627.	2.1	126
6	From microscopy to nanoscopy via visible light. <i>Light: Science and Applications</i> , 2013, 2, e108-e108.	7.7	81
7	Spectral imaging with deep learning. <i>Light: Science and Applications</i> , 2022, 11, 61.	7.7	67
8	Fluorescent Nanowire Ring Illumination for Wide-Field Far-Field Subdiffraction Imaging. <i>Physical Review Letters</i> , 2017, 118, 076101.	2.9	62
9	Deeply learned broadband encoding stochastic hyperspectral imaging. <i>Light: Science and Applications</i> , 2021, 10, 108.	7.7	61
10	Far-field super-resolution imaging using near-field illumination by micro-fiber. <i>Applied Physics Letters</i> , 2013, 102, 013104.	1.5	49
11	Formation of sub-half-wavelength focal spot with ultra long depth of focus. <i>Optics Communications</i> , 2011, 284, 1766-1769.	1.0	43
12	Three-dimensional adaptive optical nanoscopy for thick specimen imaging at sub-50-nm resolution. <i>Nature Methods</i> , 2021, 18, 688-693.	9.0	39
13	Deeply Learned Broadband Encoding Stochastic Filters for Computational Spectroscopic Instruments. <i>Advanced Theory and Simulations</i> , 2021, 4, 2000299.	1.3	27
14	Fast reconstruction algorithm for structured illumination microscopy. <i>Optics Letters</i> , 2020, 45, 1567.	1.7	27
15	Evanescence-wave-induced frequency shift for optical superresolution imaging. <i>Optics Letters</i> , 2013, 38, 2455.	1.7	26
16	Time-gated stimulated emission depletion nanoscopy. <i>Optical Engineering</i> , 2013, 52, 093107.	0.5	25
17	Hydrophilic microsphere based mesoscopic-lens microscope (MMM). <i>Optics Communications</i> , 2012, 285, 4130-4133.	1.0	23
18	Enhancing the performance of fluorescence emission difference microscopy using beam modulation. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 125708.	1.0	23

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19	Aberrations in 4Pi Microscopy. <i>Optics Express</i> , 2017, 25, 14049.	1.7	23
20	Principles of Different X-ray Phase-Contrast Imaging: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2971.	1.3	23
21	A quadrant detector based laser alignment method with higher sensitivity. <i>Optik</i> , 2012, 123, 2238-2240.	1.4	19
22	Point-spread function optimization in isoSTED nanoscopy. <i>Optics Letters</i> , 2015, 40, 3627.	1.7	18
23	Experimental verification of the far-field subwavelength focusing with multiple concentric nanorings. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	17
24	A method for extending depth of focus in STED nanolithography. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 045702.	1.0	17
25	Creating attoliter detection volume by microsphere photonic nanojet and fluorescence depletion. <i>Optics Communications</i> , 2012, 285, 402-406.	1.0	16
26	Ultra-fast, universal super-resolution radial fluctuations (SRRF) algorithm for live-cell super-resolution microscopy. <i>Optics Express</i> , 2019, 27, 38337.	1.7	16
27	Freeform surface lens design for uniform illumination. <i>Journal of Optics</i> , 2008, 10, 075005.	1.5	13
28	A method for generating a three-dimensional dark spot using a radially polarized beam. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 125704.	1.0	13
29	Focusing properties of cylindrical vector vortex beams with high numerical aperture objective. <i>Optik</i> , 2013, 124, 4762-4765.	1.4	13
30	Resolution Enhancement and Background Suppression in Optical Super-Resolution Imaging for Biological Applications. <i>Laser and Photonics Reviews</i> , 2021, 15, .	4.4	13
31	Optical super-resolution by subtraction of time-gated images. <i>Optics Letters</i> , 2013, 38, 1001.	1.7	12
32	A self-adaptive method for creating high efficiency communication channels through random scattering media. <i>Scientific Reports</i> , 2015, 4, 5874.	1.6	12
33	Pulsed Saturated Absorption Competition Microscopy on Nonbleaching Nanoparticles. <i>ACS Photonics</i> , 2020, 7, 1788-1798.	3.2	12
34	Generation of a 3D isotropic hollow focal spot for single-objective stimulated emission depletion microscopy. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 085704.	1.0	11
35	Rugate notch filter fabricated by atomic layer deposition. <i>Applied Optics</i> , 2014, 53, A270.	0.9	11
36	Manipulation of doughnut focal spot by image inverting interferometry. <i>Optics Letters</i> , 2012, 37, 821.	1.7	10

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37	Deformable mirror based optimal PSF engineering for 3D super-resolution imaging. Optics Letters, 2022, 47, 3031.	1.7	10
38	Continuous manipulation of doughnut focal spot in a large scale. Optics Express, 2012, 20, 12692.	1.7	9
39	High-precision laser alignment technique based on spiral phase plate. Optics and Lasers in Engineering, 2012, 50, 944-949.	2.0	9
40	Parameter optimization for photonic nanojet of dielectric microsphere. Optoelectronics Letters, 2013, 9, 153-156.	0.4	9
41	Sub-diffraction imaging with confocal fluorescence microscopy by stochastic photobleaching. Optics Communications, 2014, 312, 62-67.	1.0	9
42	Aberrations in Structured Illumination Microscopy: A Theoretical Analysis. Frontiers in Physics, 2020, 7, .	1.0	9
43	Subwavelength focusing by a microsphere array. Journal of Optics (United Kingdom), 2011, 13, 035702.	1.0	8
44	Precise broad-band anti-reflection coating fabricated by atomic layer deposition. Optics Communications, 2013, 292, 31-35.	1.0	8
45	Reduction of coating induced polarization aberrations by controlling the polarization state variation. Journal of Optics (United Kingdom), 2011, 13, 055701.	1.0	7
46	An interferential method for generating polarization-rotatable cylindrical vector beams. Optics Communications, 2013, 286, 6-12.	1.0	7
47	A lateral differential confocal microscopy for accurate detection and localization of edge contours. Optics and Lasers in Engineering, 2014, 53, 12-18.	2.0	7
48	A 3D aligning method for stimulated emission depletion microscopy using fluorescence lifetime distribution. Microscopy Research and Technique, 2014, 77, 935-940.	1.2	7
49	Review of compact computational spectral information acquisition systems. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 1119-1133.	1.5	7
50	A Labeling Strategy for Living Specimens in Long-Term/Super-Resolution Fluorescence Imaging. Frontiers in Chemistry, 2020, 8, 601436.	1.8	7
51	Single-shot grating-based X-ray phase contrast imaging via generative adversarial network. Optics and Lasers in Engineering, 2022, 152, 106960.	2.0	7
52	Factors Affecting the Spatial Resolution in 2D Grating-Based X-Ray Phase Contrast Imaging. Frontiers in Physics, 2021, 9, .	1.0	6
53	3D super-resolution microscopy based on nonlinear gradient descent structured illumination. Optics Express, 2021, 29, 21428.	1.7	6
54	Review of 4Pi Fluorescence Nanoscopy. Engineering, 2022, 11, 146-153.	3.2	6

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55	Total variation and spatial iteration-based 3D structured illumination microscopy. Optics Express, 2022, 30, 7938.	1.7	6
56	Superenhanced three-dimensional confinement of light by compound metal-dielectric microspheres. Optics Express, 2012, 20, 16981.	1.7	5
57	Cell-permeable organic fluorescent probes for live-cell super-resolution imaging of actin filaments. Journal of Chemical Technology and Biotechnology, 2019, 94, 2040-2046.	1.6	5
58	Dichroic Circular Polarizers Based on Plasmonics for Polarization Imaging Applications. Nanomaterials, 2021, 11, 2145.	1.9	5
59	Isotropic three-dimensional imaging with lattice light-sheet difference microscopy. Optics Letters, 2020, 45, 2854.	1.7	5
60	Superresolution confocal technology for displacement measurements based on total internal reflection. Review of Scientific Instruments, 2010, 81, 103702.	0.6	4
61	Contrast reversal confocal microscopy. Optics Communications, 2013, 298-299, 272-275.	1.0	4
62	Super-Resolution Structured Illumination Microscopy Reconstruction Using a Least-Squares Solver. Frontiers in Physics, 2020, 8, .	1.0	4
63	Stimulated emission depletion microscopy with array detection and photon reassignment. Optics and Lasers in Engineering, 2020, 129, 106061.	2.0	4
64	Generation of Arbitrary Longitudinal Polarization Vortices by Pupil Function Manipulation. Advanced Photonics Research, 2021, 2, 2000087.	1.7	4
65	Calibration of phase-only liquid-crystal spatial light modulators by diffractogram analysis. Optics and Lasers in Engineering, 2022, 156, 107056.	2.0	4
66	Speckle-free laser projection structured illumination microscopy based on a digital micromirror device. Optics Express, 2021, 29, 43917.	1.7	4
67	Methods for generating a dark spot using phase and polarization modulation light. Optik, 2013, 124, 650-654.	1.4	3
68	Image scanning difference microscopy. Journal of Microscopy, 2019, 276, 98-106.	0.8	3
69	Super-resolution microscopy based on parallel detection. Journal of Innovative Optical Health Sciences, 2019, 12, .	0.5	3
70	Sub-60-nm 3D super-resolution imaging via saturated I5S. Optics Communications, 2020, 473, 125981.	1.0	3
71	Three-Dimension Resolution Enhanced Microscopy Based on Parallel Detection. Applied Sciences (Switzerland), 2021, 11, 2837.	1.3	3
72	Analytical description of sub-diffraction dark spot. Optics Communications, 2021, 499, 127295.	1.0	3

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73	Quantitative objective-based ring TIRFM system calibration through back focal plane imaging. Optics Letters, 2020, 45, 3001.	1.7	3
74	All-day thin-lens computational imaging with scene-specific learning recovery. Applied Optics, 2022, 61, 1097.	0.9	3
75	Modulated illumination localization microscopy-enabled sub-10 nm resolution. Journal of Innovative Optical Health Sciences, 2022, 15, .	0.5	3
76	Enhanced axial resolution of lattice light sheet microscopy by fluorescence differential detection. Optics Express, 2022, 30, 27381.	1.7	3
77	Sharper focal spot below $\lambda/4$ of azimuthally polarized illumination phase-encoded by the binary $0/\pi$ phase plate. Optik, 2012, 123, 2179-2182.	1.4	2
78	Dynamic live-cell super-resolution imaging with parallelized fluorescence emission difference microscopy. Optics Communications, 2020, 460, 125087.	1.0	2
79	3D resolution enhancement in saturated competition microscopy. Applied Optics, 2020, 59, 10661.	0.9	2
80	Effect of coating-induced polarization aberrations on the focusing properties in high numerical aperture optical system. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 154214.	0.2	2
81	Sensorless adaptive optics for isoSTED nanoscopy. , 2018, , .		2
82	Dual-color simultaneous structured illumination microscopy based on galvo-mirrors. Optics Communications, 2022, 511, 128012.	1.0	2
83	High speed optical nanoscopy by stimulated emission depletion (STED) with galvo mirrors. Proceedings of SPIE, 2013, , .	0.8	1
84	Sub-diffraction dark spot localization microscopy. Photonics Research, 2021, 9, 1455.	3.4	1
85	Label-free difference super-resolution microscopy based on parallel detection. Applied Optics, 2019, 58, 9069.	0.9	1
86	Optical super-resolution microscope based on microsphere. Proceedings of SPIE, 2012, , .	0.8	0
87	3D Nanoscopy with Sub-60 nm Resolution Deep Inside Tissue Using Adaptive Optics. , 2018, , .		0
88	A Review on Dual-Lens Fluorescence Microscopy for Three-Dimensional Imaging. Frontiers in Physics, 2020, 8, .	1.0	0
89	Background suppression with dual modulation by saturated absorption competition microscopy. Optics and Lasers in Engineering, 2021, 147, 106750.	2.0	0
90	Far-field Optical Nanoscopy via Visible Light. , 2013, , .		0

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91	Using subtraction strategy to enhance the resolution of confocal microscopy. , 2013, , .		0
92	Circular Polarizer Based on Multi-stack Plasmonic Nanostructure for Optical Communication. , 2021, , .		0
93	Broadband Metasurface Absorber Based on Metal-dielectric Nanodisks. , 2021, , .		0
94	Sub-diffraction dark spot localization microscopy. , 2020, , .		0
95	Modulated pattern scanning microscopy. Optics Letters, 2022, 47, 1721.	1.7	0