

Xiang Hao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4278132/publications.pdf>

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	Review of 4Pi Fluorescence Nanoscopy. <i>Engineering</i> , 2022, 11, 146-153.	3.2	6
2	Dual-color simultaneous structured illumination microscopy based on galvo-mirrors. <i>Optics Communications</i> , 2022, 511, 128012.	1.0	2
3	All-day thin-lens computational imaging with scene-specific learning recovery. <i>Applied Optics</i> , 2022, 61, 1097.	0.9	3
4	Single-shot grating-based X-ray phase contrast imaging via generative adversarial network. <i>Optics and Lasers in Engineering</i> , 2022, 152, 106960.	2.0	7
5	Modulated illumination localization microscopy-enabled sub-10 nm resolution. <i>Journal of Innovative Optical Health Sciences</i> , 2022, 15, .	0.5	3
6	Total variation and spatial iteration-based 3D structured illumination microscopy. <i>Optics Express</i> , 2022, 30, 7938.	1.7	6
7	Spectral imaging with deep learning. <i>Light: Science and Applications</i> , 2022, 11, 61.	7.7	67
8	Modulated pattern scanning microscopy. <i>Optics Letters</i> , 2022, 47, 1721.	1.7	0
9	Calibration of phase-only liquid-crystal spatial light modulators by diffractogram analysis. <i>Optics and Lasers in Engineering</i> , 2022, 156, 107056.	2.0	4
10	Deformable mirror based optimal PSF engineering for 3D super-resolution imaging. <i>Optics Letters</i> , 2022, 47, 3031.	1.7	10
11	Enhanced axial resolution of lattice light sheet microscopy by fluorescence differential detection. <i>Optics Express</i> , 2022, 30, 27381.	1.7	3
12	Generation of Arbitrary Longitudinal Polarization Vortices by Pupil Function Manipulation. <i>Advanced Photonics Research</i> , 2021, 2, 2000087.	1.7	4
13	Resolution Enhancement and Background Suppression in Optical Super-Resolution Imaging for Biological Applications. <i>Laser and Photonics Reviews</i> , 2021, 15, .	4.4	13
14	Deep-Learned Broadband Encoding Stochastic Filters for Computational Spectroscopic Instruments. <i>Advanced Theory and Simulations</i> , 2021, 4, 2000299.	1.3	27
15	Three-Dimension Resolution Enhanced Microscopy Based on Parallel Detection. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2837.	1.3	3
16	Principles of Different X-ray Phase-Contrast Imaging: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2971.	1.3	23
17	Deeply learned broadband encoding stochastic hyperspectral imaging. <i>Light: Science and Applications</i> , 2021, 10, 108.	7.7	61
18	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

#	ARTICLE	IF	CITATIONS
19	Factors Affecting the Spatial Resolution in 2D Grating-Based X-Ray Phase Contrast Imaging. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	6
20	3D super-resolution microscopy based on nonlinear gradient descent structured illumination. <i>Optics Express</i> , 2021, 29, 21428.	1.7	6
21	Sub-diffraction dark spot localization microscopy. <i>Photonics Research</i> , 2021, 9, 1455.	3.4	1
22	Dichroic Circular Polarizers Based on Plasmonics for Polarization Imaging Applications. <i>Nanomaterials</i> , 2021, 11, 2145.	1.9	5
23	Analytical description of sub-diffraction dark spot. <i>Optics Communications</i> , 2021, 499, 127295.	1.0	3
24	Background suppression with dual modulation by saturated absorption competition microscopy. <i>Optics and Lasers in Engineering</i> , 2021, 147, 106750.	2.0	0
25	Circular Polarizer Based on Multi-stack Plasmonic Nanostructure for Optical Communication. , 2021, , .		0
26	Broadband Metasurface Absorber Based on Metal-dielectric Nanodisks. , 2021, , .		0
27	Speckle-free laser projection structured illumination microscopy based on a digital micromirror device. <i>Optics Express</i> , 2021, 29, 43917.	1.7	4
28	Dynamic live-cell super-resolution imaging with parallelized fluorescence emission difference microscopy. <i>Optics Communications</i> , 2020, 460, 125087.	1.0	2
29	A Review on Dual-Lens Fluorescence Microscopy for Three-Dimensional Imaging. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	0
30	Aberrations in Structured Illumination Microscopy: A Theoretical Analysis. <i>Frontiers in Physics</i> , 2020, 7, .	1.0	9
31	Super-Resolution Structured Illumination Microscopy Reconstruction Using a Least-Squares Solver. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	4
32	Pulsed Saturated Absorption Competition Microscopy on Nonbleaching Nanoparticles. <i>ACS Photonics</i> , 2020, 7, 1788-1798.	3.2	12
33	Sub-60-nm 3D super-resolution imaging via saturated I5S. <i>Optics Communications</i> , 2020, 473, 125981.	1.0	3
34	Review of compact computational spectral information acquisition systems. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 1119-1133.	1.5	7
35	Stimulated emission depletion microscopy with array detection and photon reassignment. <i>Optics and Lasers in Engineering</i> , 2020, 129, 106061.	2.0	4
36	A Labeling Strategy for Living Specimens in Long-Term/Super-Resolution Fluorescence Imaging. <i>Frontiers in Chemistry</i> , 2020, 8, 601436.	1.8	7

#	ARTICLE	IF	CITATIONS
37	3D resolution enhancement in saturated competition microscopy. Applied Optics, 2020, 59, 10661.	0.9	2
38	Fast reconstruction algorithm for structured illumination microscopy. Optics Letters, 2020, 45, 1567.	1.7	27
39	Quantitative objective-based ring TIRFM system calibration through back focal plane imaging. Optics Letters, 2020, 45, 3001.	1.7	3
40	Isotropic three-dimensional imaging with lattice light-sheet difference microscopy. Optics Letters, 2020, 45, 2854.	1.7	5
41	Sub-diffraction dark spot localization microscopy. , 2020, , .		0
42	Image scanning difference microscopy. Journal of Microscopy, 2019, 276, 98-106.	0.8	3
43	Super-resolution microscopy based on parallel detection. Journal of Innovative Optical Health Sciences, 2019, 12, .	0.5	3
44	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
45	Label-free difference super-resolution microscopy based on parallel detection. Applied Optics, 2019, 58, 9069.	0.9	1
46	Ultra-fast, universal super-resolution radial fluctuations (SRRF) algorithm for live-cell super-resolution microscopy. Optics Express, 2019, 27, 38337.	1.7	16
47	3D Nanoscopy with Sub-60 nm Resolution Deep Inside Tissue Using Adaptive Optics. , 2018, , .		0
48	Sensorless adaptive optics for isoSTED nanoscopy. , 2018, , .		2
49	Fluorescent Nanowire Ring Illumination for Wide-Field Far-Field Subdiffraction Imaging. Physical Review Letters, 2017, 118, 076101.	2.9	62
50	Aberrations in 4Pi Microscopy. Optics Express, 2017, 25, 14049.	1.7	23
51	A self-adaptive method for creating high efficiency communication channels through random scattering media. Scientific Reports, 2015, 4, 5874.	1.6	12
52	Point-spread function optimization in isoSTED nanoscopy. Optics Letters, 2015, 40, 3627.	1.7	18
53	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
54	Rugate notch filter fabricated by atomic layer deposition. Applied Optics, 2014, 53, A270.	0.9	11

#	ARTICLE	IF	CITATIONS
55	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
56	A 3D aligning method for stimulated emission depletion microscopy using fluorescence lifetime distribution. Microscopy Research and Technique, 2014, 77, 935-940.	1.2	7
57	Sub-diffraction imaging with confocal fluorescence microscopy by stochastic photobleaching. Optics Communications, 2014, 312, 62-67.	1.0	9
58	High speed optical nanoscopy by stimulated emission depletion (STED) with galvo mirrors. Proceedings of SPIE, 2013, , .	0.8	1
59	Far-field super-resolution imaging using near-field illumination by micro-fiber. Applied Physics Letters, 2013, 102, 013104.	1.5	49
60	Methods for generating a dark spot using phase and polarization modulation light. Optik, 2013, 124, 650-654.	1.4	3
61	Precise broad-band anti-reflection coating fabricated by atomic layer deposition. Optics Communications, 2013, 292, 31-35.	1.0	8
62	Contrast reversal confocal microscopy. Optics Communications, 2013, 298-299, 272-275.	1.0	4
63	Parameter optimization for photonic nanojet of dielectric microsphere. Optoelectronics Letters, 2013, 9, 153-156.	0.4	9
64	Focusing properties of cylindrical vector vortex beams with high numerical aperture objective. Optik, 2013, 124, 4762-4765.	1.4	13
65	An interferential method for generating polarization-rotatable cylindrical vector beams. Optics Communications, 2013, 286, 6-12.	1.0	7
66	Enhancing the performance of fluorescence emission difference microscopy using beam modulation. Journal of Optics (United Kingdom), 2013, 15, 125708.	1.0	23
67	Evanescence-wave-induced frequency shift for optical superresolution imaging. Optics Letters, 2013, 38, 2455.	1.7	26
68	Optical super-resolution by subtraction of time-gated images. Optics Letters, 2013, 38, 1001.	1.7	12
69	Time-gated stimulated emission depletion nanoscopy. Optical Engineering, 2013, 52, 093107.	0.5	25
70	Breaking the Diffraction Barrier Using Fluorescence Emission Difference Microscopy. Scientific Reports, 2013, 3, 1441.	1.6	131
71	From microscopy to nanoscopy via visible light. Light: Science and Applications, 2013, 2, e108-e108.	7.7	81
72	Far-field Optical Nanoscopy via Visible Light. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
73	Using subtraction strategy to enhance the resolution of confocal microscopy. , 2013, , .		0
74	Generation of a 3D isotropic hollow focal spot for single-objective stimulated emission depletion microscopy. Journal of Optics (United Kingdom), 2012, 14, 085704.	1.0	11
75	Optical super-resolution microscope based on microsphere. Proceedings of SPIE, 2012, , .	0.8	0
76	Manipulation of doughnut focal spot by image inverting interferometry. Optics Letters, 2012, 37, 821.	1.7	10
77	Superenhanced three-dimensional confinement of light by compound metal-dielectric microspheres. Optics Express, 2012, 20, 16981.	1.7	5
78	Sharper focal spot below $\lambda/4$ of azimuthally polarized illumination phase-encoded by the binary phase plate. Optik, 2012, 123, 2179-2182.	1.4	2
79	A quadrant detector based laser alignment method with higher sensitivity. Optik, 2012, 123, 2238-2240.	1.4	19
80	Continuous manipulation of doughnut focal spot in a large scale. Optics Express, 2012, 20, 12692.	1.7	9
81	Hydrophilic microsphere based mesoscopic-lens microscope (MMM). Optics Communications, 2012, 285, 4130-4133.	1.0	23
82	A method for extending depth of focus in STED nanolithography. Journal of Optics (United Kingdom), 2012, 14, 045702.	1.0	17
83	Creating attoliter detection volume by microsphere photonic nanojet and fluorescence depletion. Optics Communications, 2012, 285, 402-406.	1.0	16
84	High-precision laser alignment technique based on spiral phase plate. Optics and Lasers in Engineering, 2012, 50, 944-949.	2.0	9
85	A method for generating a three-dimensional dark spot using a radially polarized beam. Journal of Optics (United Kingdom), 2011, 13, 125704.	1.0	13
86	Subwavelength focusing by a microsphere array. Journal of Optics (United Kingdom), 2011, 13, 035702.	1.0	8
87	Microsphere based microscope with optical super-resolution capability. Applied Physics Letters, 2011, 99, .	1.5	155
88	Formation of sub-half-wavelength focal spot with ultra long depth of focus. Optics Communications, 2011, 284, 1766-1769.	1.0	43
89	Reduction of coating induced polarization aberrations by controlling the polarization state variation. Journal of Optics (United Kingdom), 2011, 13, 055701.	1.0	7
90	Superresolution confocal technology for displacement measurements based on total internal reflection. Review of Scientific Instruments, 2010, 81, 103702.	0.6	4

#	ARTICLE	IF	CITATIONS
91	Phase encoding for sharper focus of the azimuthally polarized beam. Optics Letters, 2010, 35, 3928.	1.7	202
92	Effects of polarization on the de-excitation dark focal spot in STED microscopy. Journal of Optics (United Kingdom), 2010, 12, 115707.	1.0	170
93	Experimental verification of the far-field subwavelength focusing with multiple concentric nanorings. Applied Physics Letters, 2010, 97, .	1.5	17
94	Freeform surface lens for LED uniform illumination. Applied Optics, 2009, 48, 6627.	2.1	126
95	Freeform surface lens design for uniform illumination. Journal of Optics, 2008, 10, 075005.	1.5	13