Xusan Yang

List of Publications by Year in descending order

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49 papers	2,017 citations	759233 12 h-index	501196 28 g-index
53 all docs	53 docs citations	53 times ranked	3033 citing authors

#	Article	IF	Citations
1	Polarization modulation with optical lock-in detection reveals universal fluorescence anisotropy of subcellular structures in live cells. Light: Science and Applications, 2022, 11, 4.	16.6	14
2	Monolithic dual-wedge prism-based spectroscopic single-molecule localization microscopy. Nanophotonics, 2022, 11, 1527-1535.	6.0	9
3	Photonic materials: from fundamentals to applications. European Physical Journal: Special Topics, 2022, 231, 583-587.	2.6	3
4	Simultaneous multimodal optical coherence and three-photon microscopy of the mouse brain in the 1700 nm optical window in vivo. , 2021, , .		0
5	Closed loop wavefront sensing and correction in mouse brain enabled by computed optical coherence microscopy. , 2021, , .		0
6	Axial localization and tracking of self-interference nanoparticles by lateral point spread functions. Nature Communications, 2021, 12, 2019.	12.8	13
7	Editorial: Recent Advances in Fluorescent Probes for Super-Resolution Microscopy. Frontiers in Chemistry, 2021, 9, 698531.	3.6	1
8	Closed-loop wavefront sensing and correction in the mouse brain with computed optical coherence microscopy. Biomedical Optics Express, 2021, 12, 4934.	2.9	1
9	Mitochondrial dynamics quantitatively revealed by STED nanoscopy with an enhanced squaraine variant probe. Nature Communications, 2020, 11, 3699.	12.8	78
10	Advances of super-resolution fluorescence polarization microscopy and its applications in life sciences. Computational and Structural Biotechnology Journal, 2020, 18, 2209-2216.	4.1	22
11	Enhancing the generating and collecting efficiency of single particle upconverting luminescence at low power excitation. Nanophotonics, 2020, 9, 1993-2000.	6.0	9
12	MUTE-SIM: multiphoton up-conversion time-encoded structured illumination microscopy. OSA Continuum, 2020, 3, 594.	1.8	6
13	Quantitative analysis of 1300-nm three-photon calcium imaging in the mouse brain. ELife, 2020, 9, .	6.0	76
14	Developing novel methods to image and visualize 3D genomes. Cell Biology and Toxicology, 2018, 34, 367-380.	5.3	24
15	Microscopy: looking into the mirror. Light: Science and Applications, 2018, 7, 4.	16.6	1
16	Amplified stimulated emission in upconversion nanoparticles for super-resolution nanoscopy. Nature, 2017, 543, 229-233.	27.8	643
17	Computational methods in super-resolution microscopy. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1222-1235.	2.6	16
18	Mirror Enhanced STED Super-resolution Microscopy. , 2017, , .		0

#	Article	IF	Citations
19	Super-resolution: better, deeper, and richer information. , 2017, , .		0
20	Long-term ultra-low-level power STED nanoscopy. , 2017, , .		0
21	Mirror reflective interference axial-narrowing super-resolution microscopy. , 2016, , .		0
22	Super-resolution fluorescence dipole orientation microscopy. , 2016, , .		0
23	Superâ€resolution deep imaging with hollow Bessel beam STED microscopy. Laser and Photonics Reviews, 2016, 10, 147-152.	8.7	151
24	Versatile Application of Fluorescent Quantum Dot Labels in Super-resolution Fluorescence Microscopy. ACS Photonics, 2016, 3, 1611-1618.	6.6	52
25	Super-resolution dipole orientation mapping via polarization demodulation. Light: Science and Applications, 2016, 5, e16166-e16166.	16.6	93
26	Developing bioimaging and quantitative methods to study 3D genome. Quantitative Biology, 2016, 4, 129-147.	0.5	9
27	Mirror-enhanced super-resolution microscopy. Light: Science and Applications, 2016, 5, e16134-e16134.	16.6	74
28	Super-resolution Deep Imaging with Gauss-Bessel STED Microscopy. , 2016, , .		0
29	Beyond the partial light intensity imager: Eliminating MoirÃ© patterns. Optics Communications, 2015, 355, 143-147.	2.1	1
30	STED Imaging by Using Hollow Bessel Beam. , 2015, , .		0
31	Optical nanoscopy with inorganic fluorescent nanoparticles. , 2014, , .		0
32	Tunable lifetime multiplexing using luminescent nanocrystals. Nature Photonics, 2014, 8, 32-36.	31.4	652
33	Sub-diffraction imaging of nitrogen-vacancy centers in diamond by stimulated emission depletion and structured illumination. RSC Advances, 2014, 4, 11305.	3.6	39
34	A comparative study of two generation partial light intensity imager based on liquid crystal. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 122, 87-96.	2.3	3
35	Two-color CW STED nanoscopy. Proceedings of SPIE, 2013, , .	0.8	0
36	STED imaging of nitrogen vacancy centers in diamond. , 2013, , .		0

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37	STED optical super-resolution microscopy with fluorescent NV-centers. , 2013, , .		0
38	Design of a real-time portable confocal scanning laser microscope. , 2012, , .		2
39	Partially light-controlled imager based on liquid crystal plate and image intensifier for aurora and airglow measurement. Applied Optics, 2012, 51, 1968.	1.8	7
40	Research on Light Amplification Panel Based on Stimulated Radiation. Materials Science Forum, 2010, 663-665, 344-347.	0.3	1
41	Partially light-controlled imaging system based on High Temperature Poly-Silicon Thin Film Transistor-Liquid Crystal Display. Optics Express, 2010, 18, 10616.	3.4	11
42	Circuit design of partial gating image based on Cyclone II and HTPS. , 2008, , .		1
43	Modulation transfer function of partial gating detector by liquid crystal auto-controlling light intensity. Proceedings of SPIE, 2008, , .	0.8	3
44	Enhancement latitude of civil digital photography system by liquid crystal. , 2008, , .		1
45	Partial gating image intensifier based on liquid crystal auto-controlling light intensity. , 2008, , .		0
46	Control circuit design of novel partial gating detector by liquid crystal. Proceedings of SPIE, 2008, , .	0.8	0
47	Study of liquid crystal based on auto-controlling light intensity. , 2008, , .		0
48	Research on the Eye Controlled Model of Anti-Glare Imaging Detector Based on Liquid Crystal. Materials Science Forum, 0, 663-665, 247-251.	0.3	0
49	The Anti-Glare Detector Based on Liquid Crystal. Materials Science Forum, 0, 663-665, 755-758.	0.3	0