

# Nicolas Olivier

## List of Publications by Citations

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37  
papers

2,284  
citations

23  
h-index

45  
g-index

45  
ext. papers

2,822  
ext. citations

8.5  
avg, IF

4.6  
L-index

#	Paper	IF	Citations
37	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. <i>Nature Chemistry</i> , <b>2013</b> , 5, 132-9	17.6	607
36	Cell lineage reconstruction of early zebrafish embryos using label-free nonlinear microscopy. <i>Science</i> , <b>2010</b> , 329, 967-71	33.3	271
35	Ultrafast synthesis and switching of light polarization in nonlinear anisotropic metamaterials. <i>Nature Photonics</i> , <b>2017</b> , 11, 628-633	33.9	153
34	Resolution doubling in 3D-STORM imaging through improved buffers. <i>PLoS ONE</i> , <b>2013</b> , 8, e69004	3.7	124
33	Multimodal nonlinear imaging of the human cornea <b>2010</b> , 51, 2459-65		103
32	Eliminating material constraints for nonlinearity with plasmonic metamaterials. <i>Nature Communications</i> , <b>2015</b> , 6, 7757	17.4	94
31	FALCON: fast and unbiased reconstruction of high-density super-resolution microscopy data. <i>Scientific Reports</i> , <b>2014</b> , 4, 4577	4.9	90
30	Simple buffers for 3D STORM microscopy. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 885-99	3.5	82
29	Mechanisms of HsSAS-6 assembly promoting centriole formation in human cells. <i>Journal of Cell Biology</i> , <b>2014</b> , 204, 697-712	7.3	59
28	Quantitative super-resolution imaging reveals protein stoichiometry and nanoscale morphology of assembling HIV-Gag virions. <i>Nano Letters</i> , <b>2012</b> , 12, 4705-10	11.5	54
27	Ultrafast Optical Modulation of Second- and Third-Harmonic Generation from Cut-Disk-Based Metasurfaces. <i>ACS Photonics</i> , <b>2016</b> , 3, 1517-1522	6.3	45
26	Two-photon microscopy with simultaneous standard and extended depth of field using a tunable acoustic gradient-index lens. <i>Optics Letters</i> , <b>2009</b> , 34, 1684-6	3	45
25	Dynamic aberration correction for multiharmonic microscopy. <i>Optics Letters</i> , <b>2009</b> , 34, 3145-7	3	45
24	Signal epidetection in third-harmonic generation microscopy of turbid media. <i>Optics Express</i> , <b>2007</b> , 15, 8913-24	3.3	44
23	Mitigating phototoxicity during multiphoton microscopy of live <i>Drosophila</i> embryos in the 1.0-1.2 $\mu\text{m}$ wavelength range. <i>PLoS ONE</i> , <b>2014</b> , 9, e104250	3.7	42
22	Harmonic microscopy of isotropic and anisotropic microstructure of the human cornea. <i>Optics Express</i> , <b>2010</b> , 18, 5028-40	3.3	41
21	Multicolor single molecule tracking of stochastically active synthetic dyes. <i>Nano Letters</i> , <b>2012</b> , 12, 2619-24.5		40

20	Molecular coordination of cell division. <i>ELife</i> , <b>2018</b> , 7,	8.9	40
19	Hyperbolic metamaterial antenna for second-harmonic generation tomography. <i>Optics Express</i> , <b>2015</b> , 23, 30730-8	3.3	39
18	Third-harmonic generation microscopy with focus-engineered beams: a numerical study. <i>Optics Express</i> , <b>2008</b> , 16, 14703-15	3.3	37
17	Second-Harmonic Generation from Hyperbolic Plasmonic Nanorod Metamaterial Slab. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1700189	8.3	32
16	Combined third-harmonic generation and four-wave mixing microscopy of tissues and embryos. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 2837-49	3.5	23
15	Multiplexed two-photon microscopy of dynamic biological samples with shaped broadband pulses. <i>Optics Express</i> , <b>2009</b> , 17, 12741-52	3.3	23
14	Nonlinear Dynamics of Ultrashort Long-Range Surface Plasmon Polariton Pulses in Gold Strip Waveguides. <i>ACS Photonics</i> , <b>2016</b> , 3, 2324-2329	6.3	19
13	A starter kit for point-localization super-resolution imaging. <i>Current Opinion in Chemical Biology</i> , <b>2011</b> , 15, 813-21	9.7	18
12	Universal switching of plasmonic signals using optical resonator modes. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e16237	16.7	15
11	Generalization of the optical theorem: experimental proof for radially polarized beams. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 36	16.7	15
10	Self-Assembled Silver-Germanium Nanolayer Metamaterial with the Enhanced Nonlinear Response. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700753	8.1	15
9	Coherent lattice dynamics in topological insulator Bi <sub>2</sub> Te <sub>3</sub> probed with time-resolved optical second-harmonic generation. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	15
8	Dispersion-based pulse shaping for multiplexed two-photon fluorescence microscopy. <i>Optics Letters</i> , <b>2010</b> , 35, 3444-6	3	14
7	Third-harmonic generation microscopy with Bessel beams: a numerical study. <i>Optics Express</i> , <b>2012</b> , 20, 24886-902	3.3	14
6	Methodology for reconstructing early zebrafish development from in vivo multiphoton microscopy. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 2335-40	8.7	13
5	Interscale mixing microscopy: far-field imaging beyond the diffraction limit. <i>Optica</i> , <b>2016</b> , 3, 803	8.6	7
4	A PSF-based approach to Biplane calibration in 3D super-resolution microscopy <b>2012</b> ,		2
3	Continuous localization using sparsity constraints for high-density super-resolution microscopy <b>2013</b> ,		1

2 Super-Resolution Data Analysis **2017**, 201-226

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1 Modeling nonlinear microscopy near index-mismatched interfaces. *Optica*, **2021**, 8, 944

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