

Nicolas Olivier

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Modeling nonlinear microscopy near index-mismatched interfaces. <i>Optica</i> , 2021 , 8, 944	8.6	1
36	Second-Harmonic Generation from Hyperbolic Plasmonic Nanorod Metamaterial Slab. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700189	8.3	32
35	Generalization of the optical theorem: experimental proof for radially polarized beams. <i>Light: Science and Applications</i> , 2018 , 7, 36	16.7	15
34	Molecular coordination of cell division. <i>ELife</i> , 2018 , 7,	8.9	40
33	Universal switching of plasmonic signals using optical resonator modes. <i>Light: Science and Applications</i> , 2017 , 6, e16237	16.7	15
32	Ultrafast synthesis and switching of light polarization in nonlinear anisotropic metamaterials. <i>Nature Photonics</i> , 2017 , 11, 628-633	33.9	153
31	Self-Assembled Silver/Germanium Nanolayer Metamaterial with the Enhanced Nonlinear Response. <i>Advanced Optical Materials</i> , 2017 , 5, 1700753	8.1	15
30	Super-Resolution Data Analysis 2017 , 201-226		1
29	Interscale mixing microscopy: far-field imaging beyond the diffraction limit. <i>Optica</i> , 2016 , 3, 803	8.6	7
28	Nonlinear Dynamics of Ultrashort Long-Range Surface Plasmon Polariton Pulses in Gold Strip Waveguides. <i>ACS Photonics</i> , 2016 , 3, 2324-2329	6.3	19
27	Ultrafast Optical Modulation of Second- and Third-Harmonic Generation from Cut-Disk-Based Metasurfaces. <i>ACS Photonics</i> , 2016 , 3, 1517-1522	6.3	45
26	Eliminating material constraints for nonlinearity with plasmonic metamaterials. <i>Nature Communications</i> , 2015 , 6, 7757	17.4	94
25	Coherent lattice dynamics in topological insulator Bi ₂ Te ₃ probed with time-resolved optical second-harmonic generation. <i>Physical Review B</i> , 2015 , 92,	3.3	15
24	Hyperbolic metamaterial antenna for second-harmonic generation tomography. <i>Optics Express</i> , 2015 , 23, 30730-8	3.3	39
23	FALCON: fast and unbiased reconstruction of high-density super-resolution microscopy data. <i>Scientific Reports</i> , 2014 , 4, 4577	4.9	90
22	Mechanisms of HsSAS-6 assembly promoting centriole formation in human cells. <i>Journal of Cell Biology</i> , 2014 , 204, 697-712	7.3	59
21	Mitigating phototoxicity during multiphoton microscopy of live <i>Drosophila</i> embryos in the 1.0-1.2 μ m wavelength range. <i>PLoS ONE</i> , 2014 , 9, e104250	3.7	42

20	Continuous localization using sparsity constraints for high-density super-resolution microscopy 2013 ,		1
19	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. <i>Nature Chemistry</i> , 2013 , 5, 132-9	17.6	607
18	Simple buffers for 3D STORM microscopy. <i>Biomedical Optics Express</i> , 2013 , 4, 885-99	3.5	82
17	Resolution doubling in 3D-STORM imaging through improved buffers. <i>PLoS ONE</i> , 2013 , 8, e69004	3.7	124
16	Quantitative super-resolution imaging reveals protein stoichiometry and nanoscale morphology of assembling HIV-Gag virions. <i>Nano Letters</i> , 2012 , 12, 4705-10	11.5	54
15	Methodology for reconstructing early zebrafish development from in vivo multiphoton microscopy. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 2335-40	8.7	13
14	Multicolor single molecule tracking of stochastically active synthetic dyes. <i>Nano Letters</i> , 2012 , 12, 2619-24.5	4.5	40
13	Third-harmonic generation microscopy with Bessel beams: a numerical study. <i>Optics Express</i> , 2012 , 20, 24886-902	3.3	14
12	A PSF-based approach to Biplane calibration in 3D super-resolution microscopy 2012 ,		2
11	Combined third-harmonic generation and four-wave mixing microscopy of tissues and embryos. <i>Biomedical Optics Express</i> , 2011 , 2, 2837-49	3.5	23
10	A starter kit for point-localization super-resolution imaging. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 813-21	9.7	18
9	Multimodal nonlinear imaging of the human cornea 2010 , 51, 2459-65		103
8	Harmonic microscopy of isotropic and anisotropic microstructure of the human cornea. <i>Optics Express</i> , 2010 , 18, 5028-40	3.3	41
7	Dispersion-based pulse shaping for multiplexed two-photon fluorescence microscopy. <i>Optics Letters</i> , 2010 , 35, 3444-6	3	14
6	Cell lineage reconstruction of early zebrafish embryos using label-free nonlinear microscopy. <i>Science</i> , 2010 , 329, 967-71	33.3	271
5	Two-photon microscopy with simultaneous standard and extended depth of field using a tunable acoustic gradient-index lens. <i>Optics Letters</i> , 2009 , 34, 1684-6	3	45
4	Dynamic aberration correction for multiharmonic microscopy. <i>Optics Letters</i> , 2009 , 34, 3145-7	3	45
3	Multiplexed two-photon microscopy of dynamic biological samples with shaped broadband pulses. <i>Optics Express</i> , 2009 , 17, 12741-52	3.3	23

- 2 Third-harmonic generation microscopy with focus-engineered beams: a numerical study. *Optics Express*, **2008**, 16, 14703-15 33 37
- 1 Signal epidetection in third-harmonic generation microscopy of turbid media. *Optics Express*, **2007**, 15, 8913-24 33 44