# Nicolas Olivier

List of Publications by Year
in descending order



| 43 | 3,079 | 279701 23 | 395590 33 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 45 | 45 | 45 | 4693 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. Nature Chemistry, 2013, 5, 132-139. | 6.6 | 779 |
| 2 | Cell Lineage Reconstruction of Early Zebrafish Embryos Using Label-Free Nonlinear Microscopy. Science, 2010, 329, 967-971. | 6.0 | 327 |
| 3 | Ultrafast synthesis and switching of light polarization in nonlinear anisotropic metamaterials. Nature Photonics, 2017, 11, 628-633. | 15.6 | 239 |
| 4 | Resolution Doubling in 3D-STORM Imaging through Improved Buffers. PLoS ONE, 2013, 8, e69004. | 1.1 | 169 |
| 5 | Multimodal Nonlinear Imaging of the Human Cornea. , 2010, 51, 2459. | | 143 |
| 6 | FALCON: fast and unbiased reconstruction of high-density super-resolution microscopy data. Scientific Reports, 2014, 4, 4577. | 1.6 | 125 |
| 7 | Eliminating material constraints for nonlinearity with plasmonic metamaterials. Nature Communications, 2015, 6, 7757. | 5.8 | 123 |
| 8 | Simple buffers for 3D STORM microscopy. Biomedical Optics Express, 2013, 4, 885. | 1.5 | 116 |
| 9 | Dynamic aberration correction for multiharmonic microscopy. Optics Letters, 2009, 34, 3145. | 1.7 | 80 |
| 10 | Mechanisms of HsSAS-6 assembly promoting centriole formation in human cells. Journal of Cell Biology, 2014, 204, 697-712. | 2.3 | 77 |
| 11 | Molecular coordination of Staphylococcus aureus cell division. ELife, 2018, 7, . | 2.8 | 69 |
| 12 | Signal epidetection in third-harmonic generation microscopy of turbid media. Optics Express, 2007, 15, 8913. | 1.7 | 64 |
| 13 | Quantitative Super-Resolution Imaging Reveals Protein Stoichiometry and Nanoscale Morphology of Assembling HIV-Gag Virions. Nano Letters, 2012, 12, 4705-4710. | 4.5 | 63 |
| 14 | Ultrafast Optical Modulation of Second- and Third-Harmonic Generation from Cut-Disk-Based Metasurfaces. ACS Photonics, 2016, 3, 1517-1522. | 3.2 | 63 |
| 15 | Two-photon microscopy with simultaneous standard and extended depth of field using a tunable acoustic gradient-index lens. Optics Letters, 2009, 34, 1684. | 1.7 | 62 |
| 16 | Harmonic microscopy of isotropic and anisotropic microstructure of the human cornea. Optics Express, 2010, 18, 5028. | 1.7 | 60 |
| 17 | Mitigating Phototoxicity during Multiphoton Microscopy of Live Drosophila Embryos in the 1.0â€“1.2 Âµm Wavelength Range. PLoS ONE, 2014, 9, e104250. | 1.1 | 59 |
| 18 | Hyperbolic metamaterial antenna for second-harmonic generation tomography. Optics Express, 2015, 23, 30730. | 1.7 | 56 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multicolor Single Molecule Tracking of Stochastically Active Synthetic Dyes. Nano Letters, 2012, 12, 2619-2624. | 4.5 | 49 |
| 20 | Combined third-harmonic generation and four-wave mixing microscopy of tissues and embryos. Biomedical Optics Express, 2011, 2, 2837. | 1.5 | 44 |
| 21 | Third-harmonic generation microscopy with focus-engineered beams: a numerical study. Optics Express, 2008, 16, 14703. | 1.7 | 43 |
| 22 | Secondâ€Harmonic Generation from Hyperbolic Plasmonic Nanorod Metamaterial Slab. Laser and Photonics Reviews, 2018, 12, 1700189. | 4.4 | 43 |
| 23 | Nonlinear Dynamics of Ultrashort Long-Range Surface Plasmon Polariton Pulses in Gold Strip Waveguides. ACS Photonics, 2016, 3, 2324-2329. | 3.2 | 27 |
| 24 | Multiplexed two-photon microscopy of dynamic biological samples with shaped broadband pulses. Optics Express, 2009, 17, 12741. | 1.7 | 24 |
| 25 | Generalization of the optical theorem: experimental proof for radially polarized beams. Light: Science and Applications, 2018, 7, 36. | 7.7 | 23 |
| 26 | A starter kit for point-localization super-resolution imaging. Current Opinion in Chemical Biology, 2011, 15, 813-821. | 2.8 | 21 |
| 27 | Coherent lattice dynamics in topological insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>probed with time-resolved optical second-harmonic generation. Physical Review B, 2015, 92, . | 1.1 | 21 |
| 28 | Dispersion-based pulse shaping for multiplexed two-photon fluorescence microscopy. Optics Letters, 2010, 35, 3444. | 1.7 | 20 |
| 29 | Universal switching of plasmonic signals using optical resonator modes. Light: Science and Applications, 2017, 6, e16237-e16237. | 7.7 | 20 |
| 30 | Third-harmonic generation microscopy with Bessel beams: a numerical study. Optics Express, 2012, 20, 24886. | 1.7 | 18 |
| 31 | Selfâ€Assembled Silverâ€“Germanium Nanolayer Metamaterial with the Enhanced Nonlinear Response. Advanced Optical Materials, 2017, 5, 1700753. | 3.6 | 16 |
| 32 | Methodology for Reconstructing Early Zebrafish Development From In Vivo Multiphoton Microscopy. IEEE Transactions on Image Processing, 2012, 21, 2335-2340. | 6.0 | 15 |
| 33 | Interscale mixing microscopy: far-field imaging beyond the diffraction limit. Optica, 2016, 3, 803. | 4.8 | 9 |
| 34 | Modeling nonlinear microscopy near index-mismatched interfaces. Optica, 2021, 8, 944. | 4.8 | 5 |
| 35 | A PSF-based approach to Biplane calibration in 3D super-resolution microscopy. , 2012, , . | | 3 |
| 36 | Continuous localization using sparsity constraints for high-density super-resolution microscopy. , 2013, , . | | 2 |

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|---|---|---|---|
| 37 | Processing pipeline for digitalizing the lineage tree of early zebrafish embryogenesis from multiharmonic imaging. , 2011, , . | | 1 |
| 38 | Contrast mechanisms and signal epidetection in THG microscopy of scattering tissues. , 2008, , . | | 0 |
| 39 | Nonlinear propagation of surface plasmon-polaritons in gold stripe waveguides. , 2016, , . | | 0 |
| 40 | Enhanced second-harmonic generation from magnetic resonance in AlGaAs nanoantennas. , 2016, , . | | 0 |
| 41 | LIQUID LENS APPROACHES FOR SIMULTANEOUS STANDARD AND EXTENDED DEPTH OF FIELD IMAGING. , 2010, , . | | 0 |
| 42 | Two-photon microscopy of biological organisms with shaped broadband pulses. , 2010, , . | | 0 |
| 43 | Interscale mixing microscopy: far-field imaging beyond the diffraction limit. , 2017, , . | | 0 |