# Romain F Laine

List of Publications by Year
in descending order

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|---|---|---|---|
| 40<br>papers | 2,487<br>citations | 279487<br>23<br>h-index | 329751<br>37<br>g-index |
| 60<br>all docs | 60<br>docs citations | 60<br>times ranked | 3381<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Democratising deep learning for microscopy with ZeroCostDL4Mic. Nature Communications, 2021, 12, 2276. | 5.8 | 295 |
| 2 | TrackMate 7: integrating state-of-the-art segmentation algorithms into tracking pipelines. Nature Methods, 2022, 19, 829-832. | 9.0 | 269 |
| 3 | C-terminal calcium binding of α-synuclein modulates synaptic vesicle interaction. Nature Communications, 2018, 9, 712. | 5.8 | 223 |
| 4 | RNA Docking and Local Translation Regulate Site-Specific Axon Remodeling In Vivo. Neuron, 2017, 95, 852-868.e8. | 3.8 | 163 |
| 5 | Structural analysis of herpes simplex virus by optical super-resolution imaging. Nature Communications, 2015, 6, 5980. | 5.8 | 125 |
| 6 | NanoJ: a high-performance open-source super-resolution microscopy toolbox. Journal Physics D: Applied Physics, 2019, 52, 163001. | 1.3 | 120 |
| 7 | Automating multimodal microscopy with NanoJ-Fluidics. Nature Communications, 2019, 10, 1223. | 5.8 | 84 |
| 8 | Artificial intelligence for microscopy: what you should know. Biochemical Society Transactions, 2019, 47, 1029-1040. | 1.6 | 75 |
| 9 | FLIM FRET Technology for Drug Discovery: Automated Multiwell-Plate High-Content Analysis, Multiplexed Readouts and Application in Situ. ChemPhysChem, 2011, 12, 609-626. | 1.0 | 68 |
| 10 | <scp>HSV</scp>-1 Glycoproteins Are Delivered to Virus Assembly Sites Through Dynamin-Dependent Endocytosis. Traffic, 2016, 17, 21-39. | 1.3 | 63 |
| 11 | De novo design of a biologically active amyloid. Science, 2016, 354, . | 6.0 | 63 |
| 12 | Nanoscopic insights into seeding mechanisms and toxicity of α-synuclein species in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3815-3819. | 3.3 | 63 |
| 13 | Fluorescence lifetime optical projection tomography. Journal of Biophotonics, 2008, 1, 390-394. | 1.1 | 62 |
| 14 | Probing the Growth Kinetics for the Formation of Uniform 1D Block Copolymer Nanoparticles by Living Crystallization-Driven Self-Assembly. ACS Nano, 2018, 12, 8920-8933. | 7.3 | 60 |
| 15 | Avoiding a replication crisis in deep-learning-based bioimage analysis. Nature Methods, 2021, 18, 1136-1144. | 9.0 | 56 |
| 16 | Single Molecule Translation Imaging Visualizes the Dynamics of Local β-Actin Synthesis in Retinal Axons. Scientific Reports, 2017, 7, 709. | 1.6 | 53 |
| 17 | Intrinsically aggregation-prone proteins form amyloid-like aggregates and contribute to tissue aging in Caenorhabditis elegans. ELife, 2019, 8, . | 2.8 | 51 |
| 18 | In Situ Visualization of Block Copolymer Self-Assembly in Organic Media by Super-Resolution Fluorescence Microscopy. Chemistry - A European Journal, 2015, 21, 18539-18542. | 1.7 | 48 |

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|---|---------|-----|-----------|
| 19 | In vivo fluorescence lifetime tomography of a FRET probe expressed in mouse. Biomedical Optics Express, 2011, 2, 1907. | 1.5 | 47 |
| 20 | Fluctuation-Based Super-Resolution Traction Force Microscopy. Nano Letters, 2020, 20, 2230-2245. | 4.5 | 47 |
| 21 | Retarded PDI diffusion and a reductive shift in poise of the calcium depleted endoplasmic reticulum. BMC Biology, 2015, 13, 2. | 1.7 | 39 |
| 22 | Automated cell tracking using StarDist and TrackMate. F1000Research, 2020, 9, 1279. | 0.8 | 34 |
| 23 | Fast Fluorescence Lifetime Imaging Reveals the Aggregation Processes of Î±-Synuclein and Polyglutamine in Aging <i>Caenorhabditis elegans</i>. ACS Chemical Biology, 2019, 14, 1628-1636. | 1.6 | 30 |
| 24 | DeepBacs for multi-task bacterial image analysis using open-source deep learning approaches. Communications Biology, 2022, 5, . | 2.0 | 30 |
| 25 | Imaging in focus: An introduction to denoising bioimages in the era of deep learning. International Journal of Biochemistry and Cell Biology, 2021, 140, 106077. | 1.2 | 27 |
| 26 | Fluorescence Lifetime Readouts of Troponin-C-Based Calcium FRET Sensors: A Quantitative Comparison of CFP and mTFP1 as Donor Fluorophores. PLoS ONE, 2012, 7, e49200. | 1.1 | 24 |
| 27 | Three-dimensional imaging of FÃ¶rster resonance energy transfer in heterogeneous turbid media by tomographic fluorescent lifetime imaging. Optics Letters, 2009, 34, 2772. | 1.7 | 21 |
| 28 | A Method to Quantify FRET Stoichiometry with Phasor Plot Analysis and Acceptor Lifetime Ingrowth. Biophysical Journal, 2015, 108, 999-1002. | 0.2 | 21 |
| 29 | OptiJ: Open-source optical projection tomography of large organ samples. Scientific Reports, 2019, 9, 15693. | 1.6 | 20 |
| 30 | Structured illumination microscopy combined with machine learning enables the high throughput analysis and classification of virus structure. ELife, 2018, 7, . | 2.8 | 20 |
| 31 | From single-molecule spectroscopy to super-resolution imaging of the neuron: a review. Methods and Applications in Fluorescence, 2016, 4, 022004. | 1.1 | 19 |
| 32 | Comparative Studies in the A30P and A53T Î±-Synuclein C. elegans Strains to Investigate the Molecular Origins of Parkinson's Disease. Frontiers in Cell and Developmental Biology, 2021, 9, 552549. | 1.8 | 12 |
| 33 | Single-Molecule Super-Resolution Imaging of T-Cell Plasma Membrane CD4 Redistribution upon HIV-1 Binding. Viruses, 2021, 13, 142. | 1.5 | 10 |
| 34 | Application of Super-Resolution and Advanced Quantitative Microscopy to the Spatio-Temporal Analysis of Influenza Virus Replication. Viruses, 2021, 13, 233. | 1.5 | 9 |
| 35 | Automated cell tracking using StarDist and TrackMate. F1000Research, 0, 9, 1279. | 0.8 | 7 |
| 36 | A method for the fast and photonâ€efficient analysis of timeâ€domain fluorescence lifetime image data over large dynamic ranges. Journal of Microscopy, 2022, 287, 138-147. | 0.8 | 2 |

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|---|---------|----|-----------|
| 37 | Tomographic imaging of flourescence resonance energy transfer in highly light scattering media. Proceedings of SPIE, 2010, , . | 0.8 | 1 |
| 38 | Förster resonance energy transfer imaging in vivo with approximated radiative transfer equation. Applied Optics, 2011, 50, 6583. | 2.1 | 1 |
| 39 | tomoFLIM - fluorescence lifetime projection tomography. , 2010, , . | | 0 |
| 40 | Förster Resonance Energy Transfer Reconstruction from Optical Backprojections in Turbid Media. , 2010, , . | | 0 |