# Steffen J Sahl

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8577855/publications.pdf

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|---|---|---|---|
| 35 papers | 3,578 citations | 236925 25 h-index | 377865 34 g-index |
| 38 all docs | 38 docs citations | 38 times ranked | 4692 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fluorescence nanoscopy in cell biology. Nature Reviews Molecular Cell Biology, 2017, 18, 685-701. | 37.0 | 773 |
| 2 | Optimal Point Spread Function Design for 3D Imaging. Physical Review Letters, 2014, 113, 133902. | 7.8 | 277 |
| 3 | A Proximity Labeling Strategy Provides Insights into the Composition and Dynamics of Lipid Droplet Proteomes. Developmental Cell, 2018, 44, 97-112.e7. | 7.0 | 240 |
| 4 | Precise Three-Dimensional Scan-Free Multiple-Particle Tracking over Large Axial Ranges with Tetrapod Point Spread Functions. Nano Letters, 2015, 15, 4194-4199. | 9.1 | 210 |
| 5 | Fast molecular tracking maps nanoscale dynamics of plasma membrane lipids. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6829-6834. | 7.1 | 174 |
| 6 | STED nanoscopy with fluorescent quantum dots. Nature Communications, 2015, 6, 7127. | 12.8 | 171 |
| 7 | Adaptive-illumination STED nanoscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9797-9802. | 7.1 | 128 |
| 8 | Super-resolution fluorescence imaging with single molecules. Current Opinion in Structural Biology, 2013, 23, 778-787. | 5.7 | 127 |
| 9 | Lens-based fluorescence nanoscopy. Quarterly Reviews of Biophysics, 2015, 48, 178-243. | 5.7 | 126 |
| 10 | MINFLUX nanometer-scale 3D imaging and microsecond-range tracking on a common fluorescence microscope. Nature Communications, 2021, 12, 1478. | 12.8 | 125 |
| 11 | STED Microscopy with Optimized Labeling Density Reveals 9-Fold Arrangement of a Centriole Protein. Biophysical Journal, 2012, 102, 2926-2935. | 0.5 | 106 |
| 12 | Ultrafast, temporally stochastic STED nanoscopy of millisecond dynamics. Nature Methods, 2015, 12, 827-830. | 19.0 | 104 |
| 13 | Strongly enhanced bacterial bioluminescence with the ilux operon for single-cell imaging. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 962-967. | 7.1 | 96 |
| 14 | Strong signal increase in STED fluorescence microscopy by imaging regions of subdiffraction extent. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2125-2130. | 7.1 | 93 |
| 15 | Single-molecule imaging of Hedgehog pathway protein Smoothened in primary cilia reveals binding events regulated by Patched1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8320-8325. | 7.1 | 89 |
| 16 | Robust nanoscopy of a synaptic protein in living mice by organic-fluorophore labeling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8047-E8056. | 7.1 | 85 |
| 17 | Cellular Inclusion Bodies of Mutant Huntingtin Exon 1 Obscure Small Fibrillar Aggregate Species. Scientific Reports, 2012, 2, 895. | 3.3 | 74 |
| 18 | Breaking the diffraction limit of light-sheet fluorescence microscopy by RESOLFT. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3442-3446. | 7.1 | 72 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A bisected pupil for studying single-molecule orientational dynamics and its application to three-dimensional super-resolution microscopy. Applied Physics Letters, 2014, 104, 193701. | 3.3 | 68 |
| 20 | Multicolour nanoscopy of fixed and living cells with a single STED beam and hyperspectral detection. Scientific Reports, 2017, 7, 46492. | 3.3 | 50 |
| 21 | SRpHi ratiometric pH biosensors for super-resolution microscopy. Nature Communications, 2017, 8, 577. | 12.8 | 50 |
| 22 | Photobleaching in STED nanoscopy and its dependence on the photon flux applied for reversible silencing of the fluorophore. Scientific Reports, 2017, 7, 11354. | 3.3 | 47 |
| 23 | Comment on â€œExtended-resolution structured illumination imaging of endocytic and cytoskeletal dynamicsâ€. Science, 2016, 352, 527-527. | 12.6 | 43 |
| 24 | Autonomous bioluminescence imaging of single mammalian cells with the bacterial bioluminescence system. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26491-26496. | 7.1 | 43 |
| 25 | Delayed emergence of subdiffraction-sized mutant huntingtin fibrils following inclusion body formation. Quarterly Reviews of Biophysics, 2016, 49, e2. | 5.7 | 39 |
| 26 | The double-helix point spread function enables precise and accurate measurement of 3D single-molecule localization and orientation. Proceedings of SPIE, 2013, 8590, 85900. | 0.8 | 25 |
| 27 | Achromatic light patterning and improved image reconstruction for parallelized RESOLFT nanoscopy. Scientific Reports, 2017, 7, 44619. | 3.3 | 25 |
| 28 | Novel reversibly switchable fluorescent proteins for RESOLFT and STED nanoscopy engineered from the bacterial photoreceptor YtvA. Scientific Reports, 2018, 8, 2724. | 3.3 | 21 |
| 29 | Optimal precision and accuracy in 4Pi-STORM using dynamic spline PSF models. Nature Methods, 2022, 19, 603-612. | 19.0 | 21 |
| 30 | Ground State Depletion Nanoscopy Resolves Semiconductor Nanowire Barcode Segments at Room Temperature. Nano Letters, 2017, 17, 2652-2659. | 9.1 | 20 |
| 31 | Highâ€Resolution Tracking of Singleâ€Molecule Diffusion in Membranes by Confocalized and Spatially Differentiated Fluorescence Photon Stream Recording. ChemPhysChem, 2014, 15, 771-783. | 2.1 | 16 |
| 32 | High-Resolution 3D Light Microscopy with STED and RESOLFT. , 2019, , 3-32. | | 14 |
| 33 | Enhanced incorporation of subnanometer tags into cellular proteins for fluorescence nanoscopy via optimized genetic code expansion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 14 |
| 34 | Fluorescence Microscopy with Nanometer Resolution. Springer Handbooks, 2019, , 1089-1143. | 0.6 | 5 |
| 35 | Superresolution Fluorescence Imaging of Mutant Huntingtin Aggregation in Cells. Methods in Molecular Biology, 2019, 1873, 241-251. | 0.9 | 3 |