

# Steffen J Sahl

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Optimal precision and accuracy in 4Pi-STORM using dynamic spline PSF models. <i>Nature Methods</i> , 2022, 19, 603-612.	19.0	21
2	Enhanced incorporation of subnanometer tags into cellular proteins for fluorescence nanoscopy via optimized genetic code expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	14
3	MINFLUX nanometer-scale 3D imaging and microsecond-range tracking on a common fluorescence microscope. <i>Nature Communications</i> , 2021, 12, 1478.	12.8	125
4	High-Resolution 3D Light Microscopy with STED and RESOLFT. , 2019, , 3-32.		14
5	Autonomous bioluminescence imaging of single mammalian cells with the bacterial bioluminescence system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26491-26496.	7.1	43
6	Superresolution Fluorescence Imaging of Mutant Huntingtin Aggregation in Cells. <i>Methods in Molecular Biology</i> , 2019, 1873, 241-251.	0.9	3
7	Fluorescence Microscopy with Nanometer Resolution. <i>Springer Handbooks</i> , 2019, , 1089-1143.	0.6	5
8	Novel reversibly switchable fluorescent proteins for RESOLFT and STED nanoscopy engineered from the bacterial photoreceptor YtvA. <i>Scientific Reports</i> , 2018, 8, 2724.	3.3	21
9	Strongly enhanced bacterial bioluminescence with the <i>ilux</i> operon for single-cell imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 962-967.	7.1	96
10	A Proximity Labeling Strategy Provides Insights into the Composition and Dynamics of Lipid Droplet Proteomes. <i>Developmental Cell</i> , 2018, 44, 97-112.e7.	7.0	240
11	Robust nanoscopy of a synaptic protein in living mice by organic-fluorophore labeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8047-E8056.	7.1	85
12	Ground State Depletion Nanoscopy Resolves Semiconductor Nanowire Barcode Segments at Room Temperature. <i>Nano Letters</i> , 2017, 17, 2652-2659.	9.1	20
13	Strong signal increase in STED fluorescence microscopy by imaging regions of subdiffraction extent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2125-2130.	7.1	93
14	Multicolour nanoscopy of fixed and living cells with a single STED beam and hyperspectral detection. <i>Scientific Reports</i> , 2017, 7, 46492.	3.3	50
15	Achromatic light patterning and improved image reconstruction for parallelized RESOLFT nanoscopy. <i>Scientific Reports</i> , 2017, 7, 44619.	3.3	25
16	Adaptive-illumination STED nanoscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9797-9802.	7.1	128
17	SRpHi ratiometric pH biosensors for super-resolution microscopy. <i>Nature Communications</i> , 2017, 8, 577.	12.8	50
18	Photobleaching in STED nanoscopy and its dependence on the photon flux applied for reversible silencing of the fluorophore. <i>Scientific Reports</i> , 2017, 7, 11354.	3.3	47

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19	Fluorescence nanoscopy in cell biology. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 685-701.	37.0	773
20	Comment on "Extended-resolution structured illumination imaging of endocytic and cytoskeletal dynamics". <i>Science</i> , 2016, 352, 527-527.	12.6	43
21	Delayed emergence of subdiffraction-sized mutant huntingtin fibrils following inclusion body formation. <i>Quarterly Reviews of Biophysics</i> , 2016, 49, e2.	5.7	39
22	Breaking the diffraction limit of light-sheet fluorescence microscopy by RESOLFT. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3442-3446.	7.1	72
23	STED nanoscopy with fluorescent quantum dots. <i>Nature Communications</i> , 2015, 6, 7127.	12.8	171
24	Ultrafast, temporally stochastic STED nanoscopy of millisecond dynamics. <i>Nature Methods</i> , 2015, 12, 827-830.	19.0	104
25	Lens-based fluorescence nanoscopy. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 178-243.	5.7	126
26	Single-molecule imaging of Hedgehog pathway protein Smoothed in primary cilia reveals binding events regulated by Patched1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8320-8325.	7.1	89
27	Precise Three-Dimensional Scan-Free Multiple-Particle Tracking over Large Axial Ranges with Tetrapod Point Spread Functions. <i>Nano Letters</i> , 2015, 15, 4194-4199.	9.1	210
28	A bisected pupil for studying single-molecule orientational dynamics and its application to three-dimensional super-resolution microscopy. <i>Applied Physics Letters</i> , 2014, 104, 193701.	3.3	68
29	High-Resolution Tracking of Single-Molecule Diffusion in Membranes by Confocalized and Spatially Differentiated Fluorescence Photon Stream Recording. <i>ChemPhysChem</i> , 2014, 15, 771-783.	2.1	16
30	Optimal Point Spread Function Design for 3D Imaging. <i>Physical Review Letters</i> , 2014, 113, 133902.	7.8	277
31	Super-resolution fluorescence imaging with single molecules. <i>Current Opinion in Structural Biology</i> , 2013, 23, 778-787.	5.7	127
32	The double-helix point spread function enables precise and accurate measurement of 3D single-molecule localization and orientation. <i>Proceedings of SPIE</i> , 2013, 8590, 85900.	0.8	25
33	Cellular Inclusion Bodies of Mutant Huntingtin Exon 1 Obscure Small Fibrillar Aggregate Species. <i>Scientific Reports</i> , 2012, 2, 895.	3.3	74
34	STED Microscopy with Optimized Labeling Density Reveals 9-Fold Arrangement of a Centriole Protein. <i>Biophysical Journal</i> , 2012, 102, 2926-2935.	0.5	106
35	Fast molecular tracking maps nanoscale dynamics of plasma membrane lipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6829-6834.	7.1	174