

Sebastian Malkusch

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,232
citations

516710

16
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

1763
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple method to estimate the average localization precision of a single-molecule localization microscopy experiment. <i>Histochemistry and Cell Biology</i> , 2014, 141, 629-638.	1.7	200
2	Coordinate-based colocalization analysis of single-molecule localization microscopy data. <i>Histochemistry and Cell Biology</i> , 2012, 137, 1-10.	1.7	171
3	Super-Resolution Microscopy Reveals Specific Recruitment of HIV-1 Envelope Proteins to Viral Assembly Sites Dependent on the Envelope C-Terminal Tail. <i>PLoS Pathogens</i> , 2013, 9, e1003198.	4.7	131
4	Extracting quantitative information from single-molecule super-resolution imaging data with LAMA –“ LocAlization Microscopy Analyzer. <i>Scientific Reports</i> , 2016, 6, 34486.	3.3	103
5	Chemically Induced Photoswitching of Fluorescent Probes –“A General Concept for Super-Resolution Microscopy. <i>Molecules</i> , 2011, 16, 3106-3118.	3.8	92
6	Correlative Light- and Electron Microscopy with chemical tags. <i>Journal of Structural Biology</i> , 2014, 186, 205-213.	2.8	83
7	Single-molecule imaging reveals the oligomeric state of functional TNF α -induced plasma membrane TNFR1 clusters in cells. <i>Science Signaling</i> , 2020, 13, .	3.6	67
8	Single-molecule coordinate-based analysis of the morphology of HIV-1 assembly sites with near-molecular spatial resolution. <i>Histochemistry and Cell Biology</i> , 2013, 139, 173-179.	1.7	57
9	Correlative Single-Molecule FRET and DNA-PAINT Imaging. <i>Nano Letters</i> , 2018, 18, 4626-4630.	9.1	47
10	Quantitative single-molecule localization microscopy combined with rule-based modeling reveals ligand-induced TNF-R1 reorganization toward higher-order oligomers. <i>Histochemistry and Cell Biology</i> , 2014, 142, 91-101.	1.7	35
11	TNF- α influences the lateral dynamics of TNF receptor I in living cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 1984-1989.	4.1	27
12	Quantitative morphological analysis of arrestin2 clustering upon G protein-coupled receptor stimulation by super-resolution microscopy. <i>Journal of Structural Biology</i> , 2013, 184, 329-334.	2.8	27
13	Coordinate-based co-localization-mediated analysis of arrestin clustering upon stimulation of the C α chemokine receptor 5 with RANTES/CCL5 analogues. <i>Histochemistry and Cell Biology</i> , 2014, 142, 69-77.	1.7	24
14	Single-Molecule Super-Resolution Microscopy Reveals Heteromeric Complexes of MET and EGFR upon Ligand Activation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2803.	4.1	24
15	A hydrophilic gel matrix for single-molecule super-resolution microscopy. <i>Optical Nanoscopy</i> , 2013, 2, .	4.0	19
16	Model-based identification of TNF α -induced IKK β -mediated and I κ B β -mediated regulation of NF κ B signal transduction as a tool to quantify the impact of drug-induced liver injury compounds. <i>Npj Systems Biology and Applications</i> , 2018, 4, 23.	3.0	19
17	Super-resolution imaging and estimation of protein copy numbers at single synapses with DNA-point accumulation for imaging in nanoscale topography. <i>Neurophotonics</i> , 2019, 6, 1.	3.3	19
18	Quantitative single-molecule imaging of TNFR1 reveals zafirlukast as antagonist of TNFR1 clustering and TNF α -induced NF κ B signaling. <i>Journal of Leukocyte Biology</i> , 2021, 109, 363-371.	3.3	14

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19	Molecule counts in complex oligomers with single-molecule localization microscopy. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 474002.	2.8	12
20	Interpretation of cluster structures in pain-related phenotype data using explainable artificial intelligence (XAI). <i>European Journal of Pain</i> , 2021, 25, 442-465.	2.8	11
21	Drugs and Epigenetic Molecular Functions. A Pharmacological Data Scientometric Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7250.	4.1	10
22	Optimal distribution-preserving downsampling of large biomedical data sets (opdisDownsampling). <i>PLoS ONE</i> , 2021, 16, e0255838.	2.5	10
23	Single-particle tracking uncovers dynamics of glutamate-induced retrograde transport of NF- κ B p65 in living neurons. <i>Neurophotonics</i> , 2016, 3, 041804.	3.3	9
24	Quantitative Single-Molecule Localization Microscopy (qSMLM) of Membrane Proteins Based on Kinetic Analysis of Fluorophore Blinking Cycles. <i>Methods in Molecular Biology</i> , 2017, 1663, 115-126.	0.9	6
25	Molecular counting of membrane receptor subunits with single-molecule localization microscopy. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
26	Visually guided preprocessing of bioanalytical laboratory data using an interactive R notebook (<i>ipgulMP</i>). <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2021, 10, 1371-1381.	2.5	4
27	Machine-Learned Association of Next-Generation Sequencing-Derived Variants in Thermosensitive Ion Channels Genes with Human Thermal Pain Sensitivity Phenotypes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4367.	4.1	2
28	Extraction of diffusion state transitions in single-particle tracking data of membrane receptors. , 2022, , .		2
29	Lateral Dynamics of TNF Receptor I in Living Cells Studied with Single-Particle Tracking and Photoactivatable Fluorescent Probes. <i>Biophysical Journal</i> , 2012, 102, 31a.	0.5	1
30	Computational Functional Genomics-Based AmpliSeq [®] Panel for Next-Generation Sequencing of Key Genes of Pain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 878.	4.1	1
31	Correlating DNA-PAINT and single-molecule FRET for multiplexed super-resolution imaging. , 2020, , .		1
32	Quantifying Actin mRNA Expression with Super Resolution Fluorescence Microscopy. <i>Biophysical Journal</i> , 2012, 102, 484a.	0.5	0
33	Signal Transduction through the Met Receptor Studied at the Single-Molecule Level. <i>Biophysical Journal</i> , 2012, 102, 668a.	0.5	0
34	Improved Super-Resolution Imaging in Heavy Water. <i>Biophysical Journal</i> , 2014, 106, 399a.	0.5	0
35	Studying the Interaction of Receptor Tyrosine Kinases and Adaptor Proteins at the Single-Molecule Level with Single-Particle Tracking. <i>Biophysical Journal</i> , 2020, 118, 97a.	0.5	0
36	Quantification of membrane receptor complexes with single-molecule localization microscopy. , 2019, , .		0

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37	Quantitative single-molecule localization microscopy reports on protein numbers in signaling protein complexes. , 2020, , .		0
38	Receptor tyrosine kinase MET ligand-interaction classified via machine learning from single-particle tracking data. Molecular Biology of the Cell, 2022, , mbcE21100496.	2.1	0