

# Rainer Kaufmann

## List of Publications by Citations

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37  
papers

1,711  
citations

21  
h-index

37  
g-index

37  
ext. papers

1,996  
ext. citations

6.2  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
37	SIMcheck: a Toolbox for Successful Super-resolution Structured Illumination Microscopy. <i>Scientific Reports</i> , <b>2015</b> , 5, 15915	4.9	190
36	SPDM: light microscopy with single-molecule resolution at the nanoscale. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 93, 1-12	1.9	137
35	Imaging cellular structures in super-resolution with SIM, STED and Localisation Microscopy: A practical comparison. <i>Scientific Reports</i> , <b>2016</b> , 6, 27290	4.9	116
34	Super-resolution microscopy using standard fluorescent proteins in intact cells under cryo-conditions. <i>Nano Letters</i> , <b>2014</b> , 14, 4171-5	11.5	92
33	High-precision correlative fluorescence and electron cryo microscopy using two independent alignment markers. <i>Ultramicroscopy</i> , <b>2014</b> , 143, 41-51	3.1	92
32	Dual color localization microscopy of cellular nanostructures. <i>Biotechnology Journal</i> , <b>2009</b> , 4, 927-38	5.6	78
31	Using conventional fluorescent markers for far-field fluorescence localization nanoscopy allows resolution in the 10-nm range. <i>Journal of Microscopy</i> , <b>2009</b> , 235, 163-71	1.9	76
30	Towards correlative super-resolution fluorescence and electron cryo-microscopy. <i>Biology of the Cell</i> , <b>2016</b> , 108, 245-58	3.5	73
29	Analysis of Her2/neu membrane protein clusters in different types of breast cancer cells using localization microscopy. <i>Journal of Microscopy</i> , <b>2011</b> , 242, 46-54	1.9	71
28	Structurally encoded intraclass differences in EphA clusters drive distinct cell responses. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 958-64	17.6	69
27	Correlative in-resin super-resolution and electron microscopy using standard fluorescent proteins. <i>Scientific Reports</i> , <b>2015</b> , 5, 9583	4.9	68
26	Localization microscopy reveals expression-dependent parameters of chromatin nanostructure. <i>Biophysical Journal</i> , <b>2010</b> , 99, 1358-67	2.9	66
25	Structural Basis for Plexin Activation and Regulation. <i>Neuron</i> , <b>2016</b> , 91, 548-60	13.9	66
24	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 443001	3	63
23	Fluorescence cryo-microscopy: current challenges and prospects. <i>Current Opinion in Chemical Biology</i> , <b>2014</b> , 20, 86-91	9.7	58
22	Superresolution imaging of biological nanostructures by spectral precision distance microscopy. <i>Biotechnology Journal</i> , <b>2011</b> , 6, 1037-51	5.6	55
21	Cryo-SOFI enabling low-dose super-resolution correlative light and electron cryo-microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 4804-4809	11.5	45

20	Visualization and quantitative analysis of reconstituted tight junctions using localization microscopy. <i>PLoS ONE</i> , <b>2012</b> , 7, e31128	3.7	45
19	Structural Basis of Teneurin-Latrophilin Interaction in Repulsive Guidance of Migrating Neurons. <i>Cell</i> , <b>2020</b> , 180, 323-339.e19	56.2	37
18	Radiation induced chromatin conformation changes analysed by fluorescent localization microscopy, statistical physics, and graph theory. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128555	3.7	29
17	COMBO-FISH enables high precision localization microscopy as a prerequisite for nanostructure analysis of genome loci. <i>International Journal of Molecular Sciences</i> , <b>2010</b> , 11, 4094-105	6.3	26
16	Superresolution imaging of transcription units on newt lampbrush chromosomes. <i>Chromosome Research</i> , <b>2012</b> , 20, 1009-15	4.4	21
15	Localization microscopy (SPDM) reveals clustered formations of P-glycoprotein in a human blood-brain barrier model. <i>PLoS ONE</i> , <b>2012</b> , 7, e44776	3.7	21
14	Accelerating Image Analysis for Localization Microscopy with FPGAs <b>2011</b> ,		21
13	A combined 3D-SIM/SMLM approach allows centriole proteins to be localized with a precision of ~4-5 nm. <i>Current Biology</i> , <b>2017</b> , 27, R1054-R1055	6.3	18
12	SPDM: single molecule superresolution of cellular nanostructures <b>2009</b> ,		18
11	Imaging label-free intracellular structures by localisation microscopy. <i>Micron</i> , <b>2011</b> , 42, 348-52	2.3	12
10	Spatial distribution and structural arrangement of a murine cytomegalovirus glycoprotein detected by SPDM localization microscopy. <i>Histochemistry and Cell Biology</i> , <b>2014</b> , 142, 61-7	2.4	10
9	Correlative In-Resin Super-Resolution Fluorescence and Electron Microscopy of Cultured Cells. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1663, 163-177	1.4	8
8	Preserving the photoswitching ability of standard fluorescent proteins for correlative in-resin super-resolution and electron microscopy. <i>Methods in Cell Biology</i> , <b>2017</b> , 140, 49-67	1.8	7
7	Quantitative analysis of individual hepatocyte growth factor receptor clusters in influenza A virus infected human epithelial cells using localization microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 1191-8	3.8	7
6	Application perspectives of localization microscopy in virology. <i>Histochemistry and Cell Biology</i> , <b>2014</b> , 142, 43-59	2.4	4
5	Far-Field Fluorescence Microscopy of Cellular Structures at Molecular Optical Resolution <b>2010</b> , 3-1-3-35		4
4	Entering the Nano-Cosmos of the Cell by Means of Spatial Position Determination Microscopy (SPDM): Implications for Medical Diagnostics and Radiation Research. <i>IFMBE Proceedings</i> , <b>2013</b> , 93-95	0.2	4
3	Super-resolution fluorescence microscopy of cryo-immobilized samples <b>2016</b> , 1017-1017		2

- 2 Correlative super-resolution fluorescence and electron cryo-microscopy based on cryo-SOFI.  
*Methods in Cell Biology*, **2021**, 162, 253-271 1.8 2
- 1 An integrated structural cell biology to unravel the vesicle and membrane coat formation  
mechanism at the inner nuclear envelope **2016**, 997-998