

Christoph Cremer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3396639/publications.pdf>

Version: 2024-02-01

80
papers

5,340
citations

87888

38
h-index

88630

70
g-index

86
all docs

86
docs citations

86
times ranked

4388
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Maps of All Chromosomes in Human Male Fibroblast Nuclei and Prometaphase Rosettes. <i>PLoS Biology</i> , 2005, 3, e157.	5.6	683
2	Evolutionary conservation of chromosome territory arrangements in cell nuclei from higher primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4424-4429.	7.1	357
3	Non-random radial higher-order chromatin arrangements in nuclei of diploid human cells. <i>Chromosome Research</i> , 2001, 9, 541-567.	2.2	339
4	A fate map for the larval epidermis of <i>Drosophila melanogaster</i> : localized cuticle defects following irradiation of the blastoderm with an ultraviolet laser microbeam. <i>Developmental Biology</i> , 1979, 73, 239-255.	2.0	301
5	Chromatin domains and the interchromatin compartment form structurally defined and functionally interacting nuclear networks. <i>Chromosome Research</i> , 2006, 14, 707-733.	2.2	240
6	The 4D nucleome: Evidence for a dynamic nuclear landscape based on co-aligned active and inactive nuclear compartments. <i>FEBS Letters</i> , 2015, 589, 2931-2943.	2.8	211
7	Arrangements of macro- and microchromosomes in chicken cells. <i>Chromosome Research</i> , 2001, 9, 569-584.	2.2	188
8	Quantitative Motion Analysis of Subchromosomal Foci in Living Cells Using Four-Dimensional Microscopy. <i>Biophysical Journal</i> , 1999, 77, 2871-2886.	0.5	170
9	A dorso-ventral shift of embryonic primordia in a new maternal-effect mutant of <i>Drosophila</i> . <i>Nature</i> , 1980, 283, 474-476.	27.8	150
10	4D Super-Resolution Microscopy with Conventional Fluorophores and Single Wavelength Excitation in Optically Thick Cells and Tissues. <i>PLoS ONE</i> , 2011, 6, e20645.	2.5	133
11	Resolution enhancement techniques in microscopy. <i>European Physical Journal H</i> , 2013, 38, 281-344.	0.8	131
12	Light-Induced Dark States of Organic Fluochromes Enable 30 nm Resolution Imaging in Standard Media. <i>Biophysical Journal</i> , 2009, 96, L22-L24.	0.5	112
13	High-Resolution Colocalization of Single Dye Molecules by Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2002, 74, 3511-3517.	6.5	107
14	Unscheduled DNA synthesis after partial UV irradiation of the cell nucleus. <i>Experimental Cell Research</i> , 1979, 124, 111-119.	2.6	97
15	Functional Nuclear Architecture Studied by Microscopy. <i>International Review of Cell and Molecular Biology</i> , 2010, 282, 1-90.	3.2	91
16	Dual color localization microscopy of cellular nanostructures. <i>Biotechnology Journal</i> , 2009, 4, 927-938.	3.5	83
17	Single molecule localization microscopy of the distribution of chromatin using Hoechst and DAPI fluorescent probes. <i>Nucleus</i> , 2014, 5, 331-340.	2.2	78
18	Localization Microscopy Reveals Expression-Dependent Parameters of Chromatin Nanostructure. <i>Biophysical Journal</i> , 2010, 99, 1358-1367.	0.5	73

#	ARTICLE	IF	CITATIONS
19	Superresolution imaging reveals structurally distinct periodic patterns of chromatin along pachytene chromosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14635-14640.	7.1	68
20	High-precision structural analysis of subnuclear complexes in fixed and live cells via spatially modulated illumination (SMI) microscopy. <i>Chromosome Research</i> , 2008, 16, 367-382.	2.2	67
21	The Interchromatin Compartment Participates in the Structural and Functional Organization of the Cell Nucleus. <i>BioEssays</i> , 2020, 42, e1900132.	2.5	65
22	Superresolution imaging of biological nanostructures by spectral precision distance microscopy. <i>Biotechnology Journal</i> , 2011, 6, 1037-1051.	3.5	63
23	Spatially modulated illumination microscopy allows axial distance resolution in the nanometer range. <i>Applied Optics</i> , 2002, 41, 80.	2.1	58
24	A transient ischemic environment induces reversible compaction of chromatin. <i>Genome Biology</i> , 2015, 16, 246.	8.8	56
25	Visualization and Quantitative Analysis of Reconstituted Tight Junctions Using Localization Microscopy. <i>PLoS ONE</i> , 2012, 7, e31128.	2.5	55
26	Measuring the Size of Biological Nanostructures with Spatially Modulated Illumination Microscopy. <i>Molecular Biology of the Cell</i> , 2004, 15, 2449-2455.	2.1	53
27	Laser UV microirradiation of interphase nuclei and post-treatment with caffeine. <i>Human Genetics</i> , 1976, 35, 83-89.	3.8	49
28	Localized ultraviolet laser microbeam irradiation of early <i>Drosophila</i> embryos: Fate maps based on location and frequency of adult defects. <i>Developmental Biology</i> , 1979, 68, 533-545.	2.0	49
29	Epigenetic regulation of promiscuous gene expression in thymic medullary epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19426-19431.	7.1	49
30	Super-resolution microscopy approaches to nuclear nanostructure imaging. <i>Methods</i> , 2017, 123, 11-32.	3.8	49
31	Screening of herbal extracts for TLR2- and TLR4-dependent anti-inflammatory effects. <i>PLoS ONE</i> , 2018, 13, e0203907.	2.5	48
32	COMBO-FISH: specific labeling of nondenatured chromatin targets by computer-selected DNA oligonucleotide probe combinations. <i>BioTechniques</i> , 2003, 35, 564-577.	1.8	47
33	Combination of structured illumination and single molecule localization microscopy in one setup. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 094003.	2.2	47
34	Light optical precision measurements of the active and inactive Prader-Willi syndrome imprinted regions in human cell nuclei. <i>Differentiation</i> , 2008, 76, 66-82.	1.9	45
35	Nanosizing of fluorescent objects by spatially modulated illumination microscopy. <i>Applied Optics</i> , 2002, 41, 7275.	2.1	44
36	Cellular Uptake of Gold Nanoparticles and Their Behavior as Labels for Localization Microscopy. <i>Biophysical Journal</i> , 2016, 110, 947-953.	0.5	41

#	ARTICLE	IF	CITATIONS
37	Nanostructure analysis using spatially modulated illumination microscopy. <i>Nature Protocols</i> , 2007, 2, 2640-2646.	12.0	40
38	Structured illumination microscopy of autofluorescent aggregations in human tissue. <i>Micron</i> , 2011, 42, 330-335.	2.2	40
39	Superresolution light microscopy shows nanostructure of carbon ion radiation-induced DNA double-strand break repair foci. <i>FASEB Journal</i> , 2016, 30, 2767-2776.	0.5	39
40	Immunocytochemical localization of chromatin regions UV-microirradiated in S phase or anaphase. <i>Experimental Cell Research</i> , 1983, 149, 257-269.	2.6	38
41	Combining FISH with localisation microscopy: Super-resolution imaging of nuclear genome nanostructures. <i>Chromosome Research</i> , 2011, 19, 5-23.	2.2	34
42	Challenges for Super-Resolution Localization Microscopy and Biomolecular Fluorescent Nano-Probing in Cancer Research. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2066.	4.1	33
43	COMBO-FISH Enables High Precision Localization Microscopy as a Prerequisite for Nanostructure Analysis of Genome Loci. <i>International Journal of Molecular Sciences</i> , 2010, 11, 4094-4105.	4.1	29
44	Imaging chromatin nanostructure with binding-activated localization microscopy based on DNA structure fluctuations. <i>Nucleic Acids Research</i> , 2017, 45, gkw1301.	14.5	29
45	Super-Resolution Localization Microscopy of γ -H2AX and Heterochromatin after Folate Deficiency. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1726.	4.1	29
46	Superresolution imaging of transcription units on newt lampbrush chromosomes. <i>Chromosome Research</i> , 2012, 20, 1009-1015.	2.2	28
47	Localization microscopy of DNA in situ using Vybrant $\text{DyeCycle}^{\text{®}}$ Violet fluorescent probe: A new approach to study nuclear nanostructure at single molecule resolution. <i>Experimental Cell Research</i> , 2016, 343, 97-106.	2.6	27
48	Localization Microscopy Analyses of MRE11 Clusters in 3D-Conserved Cell Nuclei of Different Cell Lines. <i>Cancers</i> , 2018, 10, 25.	3.7	25
49	Superresolution size determination in fluorescence microscopy: A comparison between spatially modulated illumination and confocal laser scanning microscopy. <i>Journal of Applied Physics</i> , 2004, 95, 8436-8443.	2.5	24
50	Nitration of Wheat Amylase Trypsin Inhibitors Increases Their Innate and Adaptive Immunostimulatory Potential in vitro. <i>Frontiers in Immunology</i> , 2018, 9, 3174.	4.8	24
51	Comparison of triple helical COMBO-FISH and standard FISH by means of quantitative microscopic image analysis of abl/bcr positions in cell nuclei. <i>Journal of Proteomics</i> , 2007, 70, 397-406.	2.4	23
52	Recollections of a scientific journey published in human genetics: from chromosome territories to interphase cytogenetics and comparative genome hybridization. <i>Human Genetics</i> , 2014, 133, 403-416.	3.8	22
53	Clustered localization of EGFRvIII in glioblastoma cells as detected by high precision localization microscopy. <i>Nanoscale</i> , 2016, 8, 20037-20047.	5.6	22
54	Single-Molecule Localization Microscopy allows for the analysis of cancer metastasis-specific miRNA distribution on the nanoscale. <i>Oncotarget</i> , 2015, 6, 44745-44757.	1.8	22

#	ARTICLE	IF	CITATIONS
55	SPDM: single molecule superresolution of cellular nanostructures. Proceedings of SPIE, 2009, , .	0.8	21
56	Quantitative super-resolution localization microscopy of DNA in situ using Vybrant® DyeCycle, Violet fluorescent probe. Data in Brief, 2016, 7, 157-171.	1.0	21
57	Perspectives in Super-Resolved Fluorescence Microscopy: What Comes Next?. Frontiers in Physics, 2016, 4, .	2.1	20
58	COMBO-FISH for focussed fluorescence labelling of gene domains: 3D-analysis of the genome architecture of abl and bcr in human blood cells. Cell Biology International, 2005, 29, 1038-1046.	3.0	17
59	Nanoscale distribution of TLR4 on primary human macrophages stimulated with LPS and ATL. Nanoscale, 2019, 11, 9769-9779.	5.6	16
60	Optics Far Beyond the Diffraction Limit. , 2012, , 1359-1397.		15
61	Patterned illumination single molecule localization microscopy (piSMLM): user defined blinking regions of interest. Optics Express, 2018, 26, 30009.	3.4	15
62	Subnuclear localization, rates and effectiveness of UVC-induced unscheduled DNA synthesis visualized by fluorescence widefield, confocal and super-resolution microscopy. Cell Cycle, 2016, 15, 1156-1167.	2.6	14
63	Axial tomography in live cell laser microscopy. Journal of Biomedical Optics, 2017, 22, 091505.	2.6	14
64	Imaging label-free intracellular structures by localisation microscopy. Micron, 2011, 42, 348-352.	2.2	13
65	Micro axial tomography: A miniaturized, versatile stage device to overcome resolution anisotropy in fluorescence light microscopy. Review of Scientific Instruments, 2011, 82, 093701.	1.3	13
66	Super-resolution binding activated localization microscopy through reversible change of DNA conformation. Nucleus, 2018, 9, 182-189.	2.2	13
67	The Influence of Formamide on Thermal Denaturation Profiles of DNA and Metaphase Chromosomes in Suspension. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2000, 55, 737-746.	1.4	12
68	Spatial distribution and structural arrangement of a murine cytomegalovirus glycoprotein detected by SPDM localization microscopy. Histochemistry and Cell Biology, 2014, 142, 61-67.	1.7	12
69	Sample drift estimation method based on speckle patterns formed by backscattered laser light. Biomedical Optics Express, 2019, 10, 6462.	2.9	12
70	Single Molecule Localization Microscopy of Mammalian Cell Nuclei on the Nanoscale. Frontiers in Genetics, 2016, 7, 114.	2.3	11
71	Super-resolution microscopy with very large working distance by means of distributed aperture illumination. Scientific Reports, 2017, 7, 3685.	3.3	10
72	PML-like subnuclear bodies, containing XRCC1, juxtaposed to DNA replication-based single-strand breaks. FASEB Journal, 2019, 33, 2301-2313.	0.5	8

#	ARTICLE	IF	CITATIONS
73	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> , 2014, 1838, 1191-1198.	2.6	7
74	Application perspectives of localization microscopy in virology. <i>Histochemistry and Cell Biology</i> , 2014, 142, 43-59.	1.7	6
75	Tackling Tumour Cell Heterogeneity at the Super-Resolution Level in Human Colorectal Cancer Tissue. <i>Cancers</i> , 2021, 13, 3692.	3.7	6
76	Efficient Small Extracellular Vesicles (EV) Isolation Method and Evaluation of EV-Associated DNA Role in Cell-Cell Communication in Cancer. <i>Cancers</i> , 2022, 14, 2068.	3.7	6
77	Lichtmikroskopie unterhalb des Abbe-Limits. <i>Lokalisationsmikroskopie. Physik in Unserer Zeit</i> , 2011, 42, 21-29.	0.0	4
78	Super-resolved linear fluorescence localization microscopy using photostable fluorophores: A virtual microscopy study. <i>Optics Communications</i> , 2017, 404, 42-50.	2.1	3
79	Structured illumination ophthalmoscope: super-resolution microscopy on the living human eye. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210151.	3.4	3
80	Spatially modulated illumination microscopy: application perspectives in nuclear nanostructure analysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210152.	3.4	3