

Jan Ellenberg

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

185 papers	20,787 citations	77 h-index	143 g-index
201 ext. papers	23,806 ext. citations	13.8 avg, IF	6.65 L-index

#	Paper	IF	Citations
185	RNF168 binds and amplifies ubiquitin conjugates on damaged chromosomes to allow accumulation of repair proteins. <i>Cell</i> , 2009 , 136, 435-46	56.2	683
184	Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. <i>Nature</i> , 2010 , 464, 721-7	50.4	668
183	Nuclear membrane dynamics and reassembly in living cells: targeting of an inner nuclear membrane protein in interphase and mitosis. <i>Journal of Cell Biology</i> , 1997 , 138, 1193-206	7.3	667
182	Cyclic, proteasome-mediated turnover of unliganded and liganded ERalpha on responsive promoters is an integral feature of estrogen signaling. <i>Molecular Cell</i> , 2003 , 11, 695-707	17.6	625
181	The quantitative proteome of a human cell line. <i>Molecular Systems Biology</i> , 2011 , 7, 549	12.2	586
180	Kinetic analysis of secretory protein traffic and characterization of golgi to plasma membrane transport intermediates in living cells. <i>Journal of Cell Biology</i> , 1998 , 143, 1485-503	7.3	510
179	Systematic analysis of human protein complexes identifies chromosome segregation proteins. <i>Science</i> , 2010 , 328, 593-9	33.3	419
178	Self-organization of MTOCs replaces centrosome function during acentrosomal spindle assembly in live mouse oocytes. <i>Cell</i> , 2007 , 130, 484-98	56.2	397
177	Nuclear envelope breakdown proceeds by microtubule-induced tearing of the lamina. <i>Cell</i> , 2002 , 108, 83-96	56.2	371
176	Mapping the dynamic organization of the nuclear pore complex inside single living cells. <i>Nature Cell Biology</i> , 2004 , 6, 1114-21	23.4	364
175	Minimizing the risk of reporting false positives in large-scale RNAi screens. <i>Nature Methods</i> , 2006 , 3, 777-9	21.6	362
174	Topologically associating domains and chromatin loops depend on cohesin and are regulated by CTCF, WAPL, and PDS5 proteins. <i>EMBO Journal</i> , 2017 , 36, 3573-3599	13	360
173	Nuclear pore complexes form immobile networks and have a very low turnover in live mammalian cells. <i>Journal of Cell Biology</i> , 2001 , 154, 71-84	7.3	340
172	High-throughput fluorescence microscopy for systems biology. <i>Nature Reviews Molecular Cell Biology</i> , 2006 , 7, 690-6	48.7	324
171	Molecular crowding affects diffusion and binding of nuclear proteins in heterochromatin and reveals the fractal organization of chromatin. <i>EMBO Journal</i> , 2009 , 28, 3785-98	13	320
170	High-throughput RNAi screening by time-lapse imaging of live human cells. <i>Nature Methods</i> , 2006 , 3, 385-90	21.6	320
169	A proposal for validation of antibodies. <i>Nature Methods</i> , 2016 , 13, 823-7	21.6	312

168	Nuclear pore scaffold structure analyzed by super-resolution microscopy and particle averaging. <i>Science</i> , 2013 , 341, 655-8	33.3	307
167	Golgi membranes are absorbed into and reemerge from the ER during mitosis. <i>Cell</i> , 1999 , 99, 589-601	56.2	295
166	Roles of polo-like kinase 1 in the assembly of functional mitotic spindles. <i>Current Biology</i> , 2004 , 14, 1712-23	23	289
165	An evolutionarily conserved NPC subcomplex, which redistributes in part to kinetochores in mammalian cells. <i>Journal of Cell Biology</i> , 2001 , 154, 1147-60	7.3	276
164	Distinct functions of condensin I and II in mitotic chromosome assembly. <i>Journal of Cell Science</i> , 2004 , 117, 6435-45	5.3	272
163	Ki-67 acts as a biological surfactant to disperse mitotic chromosomes. <i>Nature</i> , 2016 , 535, 308-12	50.4	269
162	CellCognition: time-resolved phenotype annotation in high-throughput live cell imaging. <i>Nature Methods</i> , 2010 , 7, 747-54	21.6	256
161	Condensin I stabilizes chromosomes mechanically through a dynamic interaction in live cells. <i>Current Biology</i> , 2006 , 16, 333-44	6.3	249
160	Structure and nuclear import function of the C-terminal domain of influenza virus polymerase PB2 subunit. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 229-33	17.6	245
159	Live-cell imaging reveals a stable cohesin-chromatin interaction after but not before DNA replication. <i>Current Biology</i> , 2006 , 16, 1571-8	6.3	245
158	A new model for asymmetric spindle positioning in mouse oocytes. <i>Current Biology</i> , 2008 , 18, 1986-92	6.3	239
157	Global chromosome positions are transmitted through mitosis in mammalian cells. <i>Cell</i> , 2003 , 112, 751-64	56.2	237
156	A bromodomain protein, MCAP, associates with mitotic chromosomes and affects G(2)-to-M transition. <i>Molecular and Cellular Biology</i> , 2000 , 20, 6537-49	4.8	233
155	Dynamics and retention of misfolded proteins in native ER membranes. <i>Nature Cell Biology</i> , 2000 , 2, 288-95	25.4	232
154	Complete kinetochore tracking reveals error-prone homologous chromosome biorientation in mammalian oocytes. <i>Cell</i> , 2011 , 146, 568-81	56.2	231
153	The entire Nup107-160 complex, including three new members, is targeted as one entity to kinetochores in mitosis. <i>Molecular Biology of the Cell</i> , 2004 , 15, 3333-44	3.5	218
152	Retrograde transport of Golgi-localized proteins to the ER. <i>Journal of Cell Biology</i> , 1998 , 140, 1-15	7.3	213
151	Wapl is an essential regulator of chromatin structure and chromosome segregation. <i>Nature</i> , 2013 , 501, 564-8	50.4	211

150	MINFLUX nanoscopy delivers 3D multicolor nanometer resolution in cells. <i>Nature Methods</i> , 2020 , 17, 217-224	21.6	204
149	Systematic kinetic analysis of mitotic dis- and reassembly of the nuclear pore in living cells. <i>Journal of Cell Biology</i> , 2008 , 180, 857-65	7.3	197
148	Visualization of image data from cells to organisms. <i>Nature Methods</i> , 2010 , 7, S26-41	21.6	189
147	Regulation of sister chromatid cohesion between chromosome arms. <i>Current Biology</i> , 2004 , 14, 1187-93	6.3	188
146	Resolution of chiasmata in oocytes requires separase-mediated proteolysis. <i>Cell</i> , 2006 , 126, 135-46	56.2	186
145	A contractile nuclear actin network drives chromosome congression in oocytes. <i>Nature</i> , 2005 , 436, 812-850	4	186
144	Remodelling the walls of the nucleus. <i>Nature Reviews Molecular Cell Biology</i> , 2002 , 3, 487-97	48.7	184
143	LambdaN-GFP: an RNA reporter system for live-cell imaging. <i>Nature Methods</i> , 2007 , 4, 633-6	21.6	178
142	Automatic identification of subcellular phenotypes on human cell arrays. <i>Genome Research</i> , 2004 , 14, 1130-6	9.7	166
141	Reverse transfection on cell arrays for high content screening microscopy. <i>Nature Protocols</i> , 2007 , 2, 392-9	18.8	162
140	The transition from meiotic to mitotic spindle assembly is gradual during early mammalian development. <i>Journal of Cell Biology</i> , 2012 , 198, 357-70	7.3	152
139	LAP2alpha and BAF transiently localize to telomeres and specific regions on chromatin during nuclear assembly. <i>Journal of Cell Science</i> , 2004 , 117, 6117-28	5.3	151
138	Dissecting the contribution of diffusion and interactions to the mobility of nuclear proteins. <i>Biophysical Journal</i> , 2006 , 90, 1878-94	2.9	149
137	NuSAP, a novel microtubule-associated protein involved in mitotic spindle organization. <i>Journal of Cell Biology</i> , 2003 , 162, 1017-29	7.3	149
136	Dual-colour imaging with GFP variants. <i>Trends in Cell Biology</i> , 1999 , 9, 52-6	18.3	148
135	Maximal chromosome compaction occurs by axial shortening in anaphase and depends on Aurora kinase. <i>Nature Cell Biology</i> , 2007 , 9, 822-31	23.4	146
134	Genome-wide RNAi screening identifies human proteins with a regulatory function in the early secretory pathway. <i>Nature Cell Biology</i> , 2012 , 14, 764-74	23.4	141
133	A Nup133-dependent NPC-anchored network tethers centrosomes to the nuclear envelope in prophase. <i>Journal of Cell Biology</i> , 2011 , 192, 855-71	7.3	138

132	Real-time 3D single-molecule localization using experimental point spread functions. <i>Nature Methods</i> , 2018 , 15, 367-369	21.6	133
131	Quantitative kinetic analysis of nucleolar breakdown and reassembly during mitosis in live human cells. <i>Journal of Cell Biology</i> , 2004 , 166, 787-800	7.3	130
130	Nuclear envelope breakdown in starfish oocytes proceeds by partial NPC disassembly followed by a rapidly spreading fenestration of nuclear membranes. <i>Journal of Cell Biology</i> , 2003 , 160, 1055-68	7.3	126
129	Automatic real-time three-dimensional cell tracking by fluorescence microscopy. <i>Journal of Microscopy</i> , 2004 , 216, 131-7	1.9	123
128	Molecular basis for the interaction of [Nle4,D-Phe7]melanocyte stimulating hormone with the human melanocortin-1 receptor. <i>Journal of Biological Chemistry</i> , 1997 , 272, 23000-10	5.4	113
127	High-throughput fluorescence correlation spectroscopy enables analysis of proteome dynamics in living cells. <i>Nature Biotechnology</i> , 2015 , 33, 384-9	44.5	112
126	The transmembrane domain of a carboxyl-terminal anchored protein determines localization to the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , 1997 , 272, 1970-5	5.4	112
125	Live imaging of single nuclear pores reveals unique assembly kinetics and mechanism in interphase. <i>Journal of Cell Biology</i> , 2010 , 191, 15-22	7.3	110
124	Calcium rises locally trigger focal adhesion disassembly and enhance residency of focal adhesion kinase at focal adhesions. <i>Journal of Biological Chemistry</i> , 2004 , 279, 28715-23	5.4	108
123	Micropilot: automation of fluorescence microscopy-based imaging for systems biology. <i>Nature Methods</i> , 2011 , 8, 246-9	21.6	107
122	Nuclear pore assembly proceeds by an inside-out extrusion of the nuclear envelope. <i>ELife</i> , 2016 , 5,	8.9	107
121	Nuclear pores as versatile reference standards for quantitative superresolution microscopy. <i>Nature Methods</i> , 2019 , 16, 1045-1053	21.6	105
120	Nuclear pore complex assembly through the cell cycle: regulation and membrane organization. <i>FEBS Letters</i> , 2008 , 582, 2004-16	3.8	105
119	Inverted light-sheet microscope for imaging mouse pre-implantation development. <i>Nature Methods</i> , 2016 , 13, 139-42	21.6	102
118	Real-Time Imaging of a Single Gene Reveals Transcription-Initiated Local Confinement. <i>Biophysical Journal</i> , 2017 , 113, 1383-1394	2.9	98
117	Modified aptamers enable quantitative sub-10-nm cellular DNA-PAINT imaging. <i>Nature Methods</i> , 2018 , 15, 685-688	21.6	98
116	NuSAP, a mitotic RanGTP target that stabilizes and cross-links microtubules. <i>Molecular Biology of the Cell</i> , 2006 , 17, 2646-60	3.5	93
115	A quantitative map of human Condensins provides new insights into mitotic chromosome architecture. <i>Journal of Cell Biology</i> , 2018 , 217, 2309-2328	7.3	89

114	Four-dimensional imaging and quantitative reconstruction to analyse complex spatiotemporal processes in live cells. <i>Nature Cell Biology</i> , 2001 , 3, 852-5	23.4	89
113	A cell-based model system links chromothripsis with hyperploidy. <i>Molecular Systems Biology</i> , 2015 , 11, 828	12.2	88
112	A fractal model for nuclear organization: current evidence and biological implications. <i>Nucleic Acids Research</i> , 2012 , 40, 8783-92	20.1	82
111	Dynamics of nuclear pore complex organization through the cell cycle. <i>Current Opinion in Cell Biology</i> , 2004 , 16, 314-21	9	81
110	A new model for nuclear envelope breakdown. <i>Molecular Biology of the Cell</i> , 2001 , 12, 503-10	3.5	81
109	RanBP2/Nup358 provides a major binding site for NXF1-p15 dimers at the nuclear pore complex and functions in nuclear mRNA export. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1155-67	4.8	79
108	Dual-spindle formation in zygotes keeps parental genomes apart in early mammalian embryos. <i>Science</i> , 2018 , 361, 189-193	33.3	72
107	Fluorescence perturbation techniques to study mobility and molecular dynamics of proteins in live cells: FRAP, photoactivation, photoconversion, and FLIP. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.top90	1.3	70
106	Sun1 forms immobile macromolecular assemblies at the nuclear envelope. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008 , 1783, 2415-26	4.9	69
105	Work flow for multiplexing siRNA assays by solid-phase reverse transfection in multiwell plates. <i>Journal of Biomolecular Screening</i> , 2008 , 13, 575-80		67
104	A quantitative liposome microarray to systematically characterize protein-lipid interactions. <i>Nature Methods</i> , 2014 , 11, 47-50	21.6	66
103	Nuclear import and assembly of influenza A virus RNA polymerase studied in live cells by fluorescence cross-correlation spectroscopy. <i>Journal of Virology</i> , 2010 , 84, 1254-64	6.6	66
102	Fluorophores for live cell imaging of AGT fusion proteins across the visible spectrum. <i>BioTechniques</i> , 2006 , 41, 167-70, 172, 174-5	2.5	65
101	Experimental and computational framework for a dynamic protein atlas of human cell division. <i>Nature</i> , 2018 , 561, 411-415	50.4	65
100	Ribonucleoprotein-dependent localization of the yeast class V myosin Myo4p. <i>Journal of Cell Biology</i> , 2002 , 159, 971-82	7.3	61
99	A call for public archives for biological image data. <i>Nature Methods</i> , 2018 , 15, 849-854	21.6	61
98	Mechanisms of HsSAS-6 assembly promoting centriole formation in human cells. <i>Journal of Cell Biology</i> , 2014 , 204, 697-712	7.3	59
97	Determining cellular CTCF and cohesin abundances to constrain 3D genome models. <i>ELife</i> , 2019 , 8,	8.9	59

96	Sister chromatid resolution is an intrinsic part of chromosome organization in prophase. <i>Nature Cell Biology</i> , 2016 , 18, 692-9	23.4	59
95	Two-color green fluorescent protein time-lapse imaging. <i>BioTechniques</i> , 1998 , 25, 838-42, 844-6	2.5	58
94	Generation and validation of homozygous fluorescent knock-in cells using CRISPR-Cas9 genome editing. <i>Nature Protocols</i> , 2018 , 13, 1465-1487	18.8	58
93	Direct Visualization of Single Nuclear Pore Complex Proteins Using Genetically-Encoded Probes for DNA-PAINT. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13004-13008	16.4	57
92	Mechanisms of nuclear pore complex assembly - two different ways of building one molecular machine. <i>FEBS Letters</i> , 2018 , 592, 475-488	3.8	57
91	Myo19 ensures symmetric partitioning of mitochondria and coupling of mitochondrial segregation to cell division. <i>Current Biology</i> , 2014 , 24, 2598-605	6.3	56
90	LifeTime and improving European healthcare through cell-based interceptive medicine. <i>Nature</i> , 2020 , 587, 377-386	50.4	56
89	Multiple requirements of PLK1 during mouse oocyte maturation. <i>PLoS ONE</i> , 2015 , 10, e0116783	3.7	55
88	Intracellular transport by an anchored homogeneously contracting F-actin meshwork. <i>Current Biology</i> , 2011 , 21, 606-11	6.3	55
87	EGF-induced centrosome separation promotes mitotic progression and cell survival. <i>Developmental Cell</i> , 2013 , 25, 229-40	10.2	54
86	Nucleoporin NUP153 guards genome integrity by promoting nuclear import of 53BP1. <i>Cell Death and Differentiation</i> , 2012 , 19, 798-807	12.7	54
85	Postmitotic nuclear pore assembly proceeds by radial dilation of small membrane openings. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 21-28	17.6	53
84	Live imaging and modeling of inner nuclear membrane targeting reveals its molecular requirements in mammalian cells. <i>Journal of Cell Biology</i> , 2015 , 209, 705-20	7.3	53
83	Dynamics and mobility of nuclear envelope proteins in interphase and mitotic cells revealed by green fluorescent protein chimeras. <i>Methods</i> , 1999 , 19, 362-72	4.6	53
82	The protein phosphatase 1 regulator PNUTS is a new component of the DNA damage response. <i>EMBO Reports</i> , 2010 , 11, 868-75	6.5	52
81	ZAP-70 association with T cell receptor zeta (TCRzeta): fluorescence imaging of dynamic changes upon cellular stimulation. <i>Journal of Cell Biology</i> , 1998 , 143, 613-24	7.3	52
80	Mitotic lamin disassembly is triggered by lipid-mediated signaling. <i>Journal of Cell Biology</i> , 2012 , 198, 981-90	7.3	50
79	Hypophosphorylated SR splicing factors transiently localize around active nucleolar organizing regions in telophase daughter nuclei. <i>Journal of Cell Biology</i> , 2004 , 167, 51-63	7.3	50

78	Automatic analysis of dividing cells in live cell movies to detect mitotic delays and correlate phenotypes in time. <i>Genome Research</i> , 2009 , 19, 2113-24	9.7	49
77	An RNAi screening platform to identify secretion machinery in mammalian cells. <i>Journal of Biotechnology</i> , 2007 , 129, 352-65	3.7	47
76	Correlative live and super-resolution imaging reveals the dynamic structure of replication domains. <i>Journal of Cell Biology</i> , 2018 , 217, 1973-1984	7.3	45
75	Lipid Cooperativity as a General Membrane-Recruitment Principle for PH Domains. <i>Cell Reports</i> , 2015 , 12, 1519-30	10.6	44
74	Absolute quantification of cohesin, CTCF and their regulators in human cells. <i>ELife</i> , 2019 , 8,	8.9	44
73	Automatic identification and clustering of chromosome phenotypes in a genome wide RNAi screen by time-lapse imaging. <i>Journal of Structural Biology</i> , 2010 , 170, 1-9	3.4	42
72	Measuring structural dynamics of chromosomes in living cells by fluorescence microscopy. <i>Methods</i> , 2007 , 41, 158-67	4.6	42
71	Quantitative mapping of fluorescently tagged cellular proteins using FCS-calibrated four-dimensional imaging. <i>Nature Protocols</i> , 2018 , 13, 1445-1464	18.8	41
70	GTSE1 is a microtubule plus-end tracking protein that regulates EB1-dependent cell migration. <i>PLoS ONE</i> , 2012 , 7, e51259	3.7	40
69	SNW1 enables sister chromatid cohesion by mediating the splicing of sororin and APC2 pre-mRNAs. <i>EMBO Journal</i> , 2014 , 33, 2643-58	13	39
68	A system for imaging the regulatory noncoding Xist RNA in living mouse embryonic stem cells. <i>Molecular Biology of the Cell</i> , 2011 , 22, 2634-45	3.5	39
67	Nuclear envelope dynamics in oocytes: from germinal vesicle breakdown to mitosis. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 88-95	9	39
66	Comparative assessment of fluorescent transgene methods for quantitative imaging in human cells. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3610-8	3.5	38
65	Light microscopy of echinoderm embryos. <i>Methods in Cell Biology</i> , 2004 , 74, 371-409	1.8	37
64	FRET analyses of the U2AF complex localize the U2AF35/U2AF65 interaction in vivo and reveal a novel self-interaction of U2AF35. <i>Rna</i> , 2005 , 11, 1201-14	5.8	37
63	Gain of CTCF-Anchored Chromatin Loops Marks the Exit from Naive Pluripotency. <i>Cell Systems</i> , 2018 , 7, 482-495.e10	10.6	37
62	Integration of biological data by kernels on graph nodes allows prediction of new genes involved in mitotic chromosome condensation. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2522-36	3.5	36
61	Chromophore-assisted laser inactivation of alpha- and gamma-tubulin SNAP-tag fusion proteins inside living cells. <i>ACS Chemical Biology</i> , 2009 , 4, 127-38	4.9	36

60	EML3 is a nuclear microtubule-binding protein required for the correct alignment of chromosomes in metaphase. <i>Journal of Cell Science</i> , 2008 , 121, 1718-26	5.3	35
59	Monitoring the permeability of the nuclear envelope during the cell cycle. <i>Methods</i> , 2006 , 38, 17-24	4.6	35
58	Automatic quantification of microtubule dynamics enables RNAi-screening of new mitotic spindle regulators. <i>Cytoskeleton</i> , 2011 , 68, 266-78	2.4	33
57	Profiling DNA damage response following mitotic perturbations. <i>Nature Communications</i> , 2016 , 7, 13887	17.4	33
56	Chemogenetic Control of Nanobodies. <i>Nature Methods</i> , 2020 , 17, 279-282	21.6	27
55	The replicative helicase MCM recruits cohesin acetyltransferase ESCO2 to mediate centromeric sister chromatid cohesion. <i>EMBO Journal</i> , 2018 , 37,	13	26
54	Crowded chromatin is not sufficient for heterochromatin formation and not required for its maintenance. <i>Journal of Structural Biology</i> , 2013 , 184, 445-53	3.4	26
53	Dynamics of chromosome positioning during the cell cycle. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 664-71	7.1	24
52	Histone H3 phosphorylation during <i>Xenopus</i> oocyte maturation: regulation by the MAP kinase/p90Rsk pathway and uncoupling from DNA condensation. <i>FEBS Letters</i> , 2002 , 518, 23-8	3.8	22
51	4D imaging to assay complex dynamics in live specimens. <i>Nature Cell Biology</i> , 2003 , Suppl, S14-9	23.4	22
50	Formation of the nuclear envelope permeability barrier studied by sequential photoswitching and flux analysis. <i>Biophysical Journal</i> , 2009 , 97, 1891-7	2.9	21
49	Automated analysis of the mitotic phases of human cells in 3D fluorescence microscopy image sequences. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 840-8	0.9	21
48	Nucleocytoplasmic transport: diffusion channel or phase transition?. <i>Current Biology</i> , 2001 , 11, R551-4	6.3	21
47	Photoactivation of silicon rhodamines via a light-induced protonation. <i>Nature Communications</i> , 2019 , 10, 4580	17.4	19
46	Chromosomal association of Ran during meiotic and mitotic divisions. <i>Journal of Cell Science</i> , 2002 , 115, 4685-93	5.3	19
45	A protocol for the systematic and quantitative measurement of protein-lipid interactions using the liposome-microarray-based assay. <i>Nature Protocols</i> , 2016 , 11, 1021-38	18.8	18
44	Integrating Imaging and Omics: Computational Methods and Challenges. <i>Annual Review of Biomedical Data Science</i> , 2019 , 2, 175-197	5.6	17
43	The cellular microscopy phenotype ontology. <i>Journal of Biomedical Semantics</i> , 2016 , 7, 28	2.2	17

42	Multivariate Control of Transcript to Protein Variability in Single Mammalian Cells. <i>Cell Systems</i> , 2018 , 7, 398-411.e6	10.6	17
41	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. <i>Nature Methods</i> , 2021 , 18, 1418-1422	21.6	16
40	ARHGEF17 is an essential spindle assembly checkpoint factor that targets Mps1 to kinetochores. <i>Journal of Cell Biology</i> , 2016 , 212, 647-59	7.3	14
39	Direct Visualization of Single Nuclear Pore Complex Proteins Using Genetically-Encoded Probes for DNA-PAINT. <i>Angewandte Chemie</i> , 2019 , 131, 13138-13142	3.6	13
38	MAP1S controls microtubule stability throughout the cell cycle in human cells. <i>Journal of Cell Science</i> , 2014 , 127, 5007-13	5.3	11
37	Imaging the assembly, structure, and function of the nuclear pore inside cells. <i>Methods in Cell Biology</i> , 2014 , 122, 219-38	1.8	11
36	Mysteries in embryonic development: How can errors arise so frequently at the beginning of mammalian life?. <i>PLoS Biology</i> , 2019 , 17, e3000173	9.7	10
35	Dynamical modelling of phenotypes in a genome-wide RNAi live-cell imaging assay. <i>BMC Bioinformatics</i> , 2013 , 14, 308	3.6	10
34	Phenotypic profiling of the human genome reveals gene products involved in plasma membrane targeting of SRC kinases. <i>Genome Research</i> , 2011 , 21, 1955-68	9.7	9
33	FUN-L: gene prioritization for RNAi screens. <i>Bioinformatics</i> , 2015 , 31, 2052-3	7.2	8
32	CTCF, WAPL and PDS5 proteins control the formation of TADs and loops by cohesin		8
31	An actin-dependent spindle position checkpoint ensures the asymmetric division in mouse oocytes. <i>Nature Communications</i> , 2015 , 6, 7784	17.4	7
30	Three-dimensional superresolution fluorescence microscopy maps the variable molecular architecture of the nuclear pore complex. <i>Molecular Biology of the Cell</i> , 2021 , 32, 1523-1533	3.5	7
29	Live imaging of cell division in preimplantation mouse embryos using inverted light-sheet microscopy. <i>Methods in Cell Biology</i> , 2018 , 145, 279-292	1.8	6
28	Quantitative live and super-resolution microscopy of mitotic chromosomes. <i>Methods in Cell Biology</i> , 2018 , 145, 65-90	1.8	5
27	High-throughput microscopy using live mammalian cells. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.top84		5
26	Nuclear envelope. <i>Current Biology</i> , 2007 , 17, R154-6	6.3	5
25	Dual spindles assemble in bovine zygotes despite the presence of paternal centrosomes. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	5

24	Nuclear actin: a lack of export allows formation of filaments. <i>Current Biology</i> , 2006 , 16, R321-3	6.3	4
23	Generation and validation of homozygous fluorescent knock-in cells using CRISPR/Cas9 genome editing		4
22	Quantitative mapping of fluorescently tagged cellular proteins using FCS-calibrated four dimensional imaging		4
21	Nuclear pores as versatile reference standards for quantitative superresolution microscopy		4
20	MINFLUX nanoscopy delivers multicolor nanometer 3D-resolution in (living) cells		4
19	Visualization of loop extrusion by DNA nanoscale tracing in single human cells		4
18	A Bromodomain Protein, MCAP, Associates with Mitotic Chromosomes and Affects G2-to-M Transition. <i>Molecular and Cellular Biology</i> , 2000 , 20, 6537-6549	4.8	3
17	Non-rodent mammalian zygotes assemble dual spindles despite the presence of paternal centrosomes		3
16	Experimental and computational framework for a dynamic protein atlas of human cell division		3
15	Chemogenetic Control of Nanobodies		3
14	Super-Resolution Spatial Proximity Detection with Proximity-PAINT. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 716-720	16.4	3
13	Compensation of global movement for improved tracking of cells in time-lapse confocal microscopy image sequences 2007 ,		2
12	A quantitative map of human Condensins provides new insights into mitotic chromosome architecture		2
11	Real-time chromatin dynamics at the single gene level during transcription activation		2
10	A quantitative map of nuclear pore assembly reveals two distinct mechanisms		2
9	ChromoTrace: Computational reconstruction of 3D chromosome configurations for super-resolution microscopy. <i>PLoS Computational Biology</i> , 2018 , 14, e1006002	5	1
8	Automated Analysis of Mitotic Phenotypes in Fluorescence Microscopy Images of Human Cells 2006 , 374-378		1
7	ChromoTrace: Computational Reconstruction of 3D Chromosome Configurations for Super-Resolution Microscopy		1

- 6 Fast, robust and precise 3D localization for arbitrary point spread functions 1
- 5 3D super-resolution fluorescence microscopy maps the variable molecular architecture of the Nuclear Pore Complex 1
- 4 Dual spindle formation in zygotes keeps parental genomes apart in early mammalian embryos 1
- 3 Rapid generation of homozygous fluorescent knock-in human cells using CRISPR/Cas9 genome editing and validation by automated imaging and digital PCR screening 1
- 2 Dynamics of Nuclear Envelope Proteins During the Cell Cycle in Mammalian Cells **2002**, 15-28 1
- 1 Superaufgelöste Erkennung räumlicher Nähe mit Proximity-PAINT. *Angewandte Chemie*, **2021**, 133, 726-731 3.6