J Richard Mcintosh

List of Publications by Citations

Source: https://exaly.com/author-pdf/5825124/j-richard-mcintosh-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

88 7,875 92 45 h-index g-index citations papers 8,860 5.86 98 10.7 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
92	The molecular architecture of axonemes revealed by cryoelectron tomography. <i>Science</i> , 2006 , 313, 944	- 8 3.3	649
91	A standardized kinesin nomenclature. <i>Journal of Cell Biology</i> , 2004 , 167, 19-22	7.3	570
90	Golgi structure in three dimensions: functional insights from the normal rat kidney cell. <i>Journal of Cell Biology</i> , 1999 , 144, 1135-49	7.3	536
89	New views of cells in 3D: an introduction to electron tomography. <i>Trends in Cell Biology</i> , 2005 , 15, 43-51	18.3	338
88	Unstable kinetochore-microtubule capture and chromosomal instability following deletion of CENP-E. <i>Developmental Cell</i> , 2002 , 3, 351-65	10.2	257
87	High-voltage electron tomography of spindle pole bodies and early mitotic spindles in the yeast Saccharomyces cerevisiae. <i>Molecular Biology of the Cell</i> , 1999 , 10, 2017-31	3.5	244
86	Force production by disassembling microtubules. <i>Nature</i> , 2005 , 438, 384-8	50.4	228
85	A cytoplasmic dynein heavy chain is required for oscillatory nuclear movement of meiotic prophase and efficient meiotic recombination in fission yeast. <i>Journal of Cell Biology</i> , 1999 , 145, 1233-49	7.3	219
84	Activation of the MKK/ERK pathway during somatic cell mitosis: direct interactions of active ERK with kinetochores and regulation of the mitotic 3F3/2 phosphoantigen. <i>Journal of Cell Biology</i> , 1998 , 142, 1533-45	7.3	203
83	Chromosome-microtubule interactions during mitosis. <i>Annual Review of Cell and Developmental Biology</i> , 2002 , 18, 193-219	12.6	202
82	Visualization of the structural polarity of microtubules. <i>Nature</i> , 1980 , 286, 517-9	50.4	193
81	Cryo-fluorescence microscopy facilitates correlations between light and cryo-electron microscopy and reduces the rate of photobleaching. <i>Journal of Microscopy</i> , 2007 , 227, 98-109	1.9	172
80	The distribution of spindle microtubules during mitosis in cultured human cells. <i>Journal of Cell Biology</i> , 1971 , 49, 468-97	7.3	164
79	Fibrils connect microtubule tips with kinetochores: a mechanism to couple tubulin dynamics to chromosome motion. <i>Cell</i> , 2008 , 135, 322-33	56.2	160
78	Minus-end-directed motion of kinesin-coated microspheres driven by microtubule depolymerization. <i>Nature</i> , 1995 , 373, 161-4	50.4	160
77	Organization of interphase microtubules in fission yeast analyzed by electron tomography. Developmental Cell, 2007 , 12, 349-61	10.2	145
76	cut11(+): A gene required for cell cycle-dependent spindle pole body anchoring in the nuclear envelope and bipolar spindle formation in Schizosaccharomyces pombe. <i>Molecular Biology of the Cell</i> , 1998 , 9, 2839-55	3.5	137

(1975-2008)

75	FcRn-mediated antibody transport across epithelial cells revealed by electron tomography. <i>Nature</i> , 2008 , 455, 542-6	50.4	131
74	Three-dimensional organization of basal bodies from wild-type and delta-tubulin deletion strains of Chlamydomonas reinhardtii. <i>Molecular Biology of the Cell</i> , 2003 , 14, 2999-3012	3.5	130
73	Morphologically distinct microtubule ends in the mitotic centrosome of Caenorhabditis elegans. <i>Journal of Cell Biology</i> , 2003 , 163, 451-6	7.3	126
72	Slk19p is a centromere protein that functions to stabilize mitotic spindles. <i>Journal of Cell Biology</i> , 1999 , 146, 415-25	7.3	122
71	Two related kinesins, klp5+ and klp6+, foster microtubule disassembly and are required for meiosis in fission yeast. <i>Molecular Biology of the Cell</i> , 2001 , 12, 3919-32	3.5	117
70	Kinesinsklp5+ andklp6+ are required for normal chromosome movement in mitosis. <i>Journal of Cell Science</i> , 2002 , 115, 931-940	5.3	113
69	Intermicrotubule bridges in mitotic spindle apparatus. Journal of Cell Biology, 1970, 45, 438-44	7.3	112
68	Structure of the Golgi and distribution of reporter molecules at 20 degrees C reveals the complexity of the exit compartments. <i>Molecular Biology of the Cell</i> , 2002 , 13, 2810-25	3.5	108
67	Kinesins klp5(+) and klp6(+) are required for normal chromosome movement in mitosis. <i>Journal of Cell Science</i> , 2002 , 115, 931-40	5.3	104
66	Microtubule depolymerization can drive poleward chromosome motion in fission yeast. <i>EMBO Journal</i> , 2006 , 25, 4888-96	13	98
65	pkl1(+)and klp2(+): Two kinesins of the Kar3 subfamily in fission yeast perform different functions in both mitosis and meiosis. <i>Molecular Biology of the Cell</i> , 2001 , 12, 3476-88	3.5	96
64	A molecular-mechanical model of the microtubule. <i>Biophysical Journal</i> , 2005 , 88, 3167-79	2.9	93
63	Electron microscopy of cells: a new beginning for a new century. Journal of Cell Biology, 2001, 153, F25-	37 .3	92
62	Biophysics of mitosis. <i>Quarterly Reviews of Biophysics</i> , 2012 , 45, 147-207	7	90
61	Augmin-dependent microtubule nucleation at microtubule walls in the spindle. <i>Journal of Cell Biology</i> , 2013 , 202, 25-33	7.3	81
60	Microtubules grow by the addition of bent guanosine triphosphate tubulin to the tips of curved protofilaments. <i>Journal of Cell Biology</i> , 2018 , 217, 2691-2708	7.3	80
59	The Dam1 ring binds microtubules strongly enough to be a processive as well as energy-efficient coupler for chromosome motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15423-8	11.5	78
58	Studies on the mechanism of mitosis. <i>Annals of the New York Academy of Sciences</i> , 1975 , 253, 407-27	6.5	71

57	Probing the macromolecular organization of cells by electron tomography. <i>Current Opinion in Cell Biology</i> , 2009 , 21, 89-96	9	70
56	In search of an optimal ring to couple microtubule depolymerization to processive chromosome motions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 196	0 17- 22	68
55	Kinesin-8 from fission yeast: a heterodimeric, plus-end-directed motor that can couple microtubule depolymerization to cargo movement. <i>Molecular Biology of the Cell</i> , 2009 , 20, 963-72	3.5	67
54	Tubulin depolymerization may be an ancient biological motor. <i>Journal of Cell Science</i> , 2010 , 123, 3425-3	345.3	66
53	Conserved and divergent features of kinetochores and spindle microtubule ends from five species. Journal of Cell Biology, 2013 , 200, 459-74	7.3	64
52	Identification and immunolocalization of cytoplasmic dynein in Dictyostelium. <i>Cytoskeleton</i> , 1990 , 15, 51-62		63
51	Mitosis. Cold Spring Harbor Perspectives in Biology, 2016 , 8,	10.2	60
50	A microtubule-associated protein in the mitotic spindle and the interphase nucleus. <i>Nature</i> , 1982 , 295, 248-50	50.4	57
49	Long tethers provide high-force coupling of the Dam1 ring to shortening microtubules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7708-13	11.5	52
48	Cryo-electron tomography and 3-D analysis of the intact flagellum in Trypanosoma brucei. <i>Journal of Structural Biology,</i> 2012 , 178, 189-98	3.4	47
47	The ultrastructure of Pyrsonympha and its associated microorganisms. <i>Journal of Morphology</i> , 1974 , 143, 77-105	1.6	43
46	Lattice structure of cytoplasmic microtubules in a cultured Mammalian cell. <i>Journal of Molecular Biology</i> , 2009 , 394, 177-82	6.5	41
45	Vitreous cryo-sectioning of cells facilitated by a micromanipulator. <i>Journal of Microscopy</i> , 2006 , 224, 129-34	1.9	39
44	Electron tomography of yeast cells. <i>Methods in Enzymology</i> , 2002 , 351, 81-95	1.7	39
43	The dynamic behavior of individual microtubules associated with chromosomes in vitro. <i>Molecular Biology of the Cell</i> , 1998 , 9, 2857-71	3.5	39
42	Centromere protein F includes two sites that couple efficiently to depolymerizing microtubules. <i>Journal of Cell Biology</i> , 2015 , 209, 813-28	7-3	36
41	Electron tomography reveals a flared morphology on growing microtubule ends. <i>Journal of Cell Science</i> , 2011 , 124, 693-8	5.3	36
40	Mitotic chromosome biorientation in fission yeast is enhanced by dynein and a minus-end-directed, kinesin-like protein. <i>Molecular Biology of the Cell</i> , 2007 , 18, 2216-25	3.5	35

(1994-2017)

39	Physical determinants of bipolar mitotic spindle assembly and stability in fission yeast. <i>Science Advances</i> , 2017 , 3, e1601603	14.3	32	
38	Single-strand DNA aptamers as probes for protein localization in cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2003 , 51, 797-808	3.4	32	
37	Three-Dimensional Structure of the Ultraoligotrophic Marine Bacterium "Candidatus Pelagibacter ubique". <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	28	
36	Letter. Crystal morphology of MV-1 magnetite. <i>American Mineralogist</i> , 2002 , 87, 1727-1730	2.9	28	
35	Contributions of Microtubule Dynamic Instability and Rotational Diffusion to Kinetochore Capture. <i>Biophysical Journal</i> , 2017 , 112, 552-563	2.9	26	
34	A freeze substitution fixation-based gold enlarging technique for EM studies of endocytosed Nanogold-labeled molecules. <i>Journal of Structural Biology</i> , 2007 , 160, 103-13	3.4	25	
33	Electron tomography reveals aspects of spindle structure important for mechanical stability at metaphase. <i>Molecular Biology of the Cell</i> , 2020 , 31, 184-195	3.5	25	
32	Kinesin-8 effects on mitotic microtubule dynamics contribute to spindle function in fission yeast. <i>Molecular Biology of the Cell</i> , 2016 , 27, 3490-3514	3.5	25	
31	CENP-meta, an Essential Kinetochore Kinesin Required for the Maintenance of Metaphase Chromosome Alignment in Drosophila. <i>Journal of Cell Biology</i> , 2000 , 150, 1-12	7.3	24	
30	A Brief History of Research on Mitotic Mechanisms. <i>Biology</i> , 2016 , 5,	4.9	22	
29	Regulation of microtubule dynamics, mechanics and function through the growing tip. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 777-795	48.7	22	
28	Mechanisms of microtubule dynamics and force generation examined with computational modeling and electron cryotomography. <i>Nature Communications</i> , 2020 , 11, 3765	17.4	21	
27	Dynamics of a fluorescent calmodulin analog in the mammalian mitotic spindle at metaphase. <i>Cytoskeleton</i> , 1988 , 9, 231-42		17	
26	Silver enhancement of Nanogold particles during freeze substitution for electron microscopy. Journal of Microscopy, 2008 , 230, 263-7	1.9	15	
25	Mechanisms of chromosome biorientation and bipolar spindle assembly analyzed by computational modeling. <i>ELife</i> , 2020 , 9,	8.9	15	
24	Assessing the Contributions of Motor Enzymes and Microtubule Dynamics to Mitotic Chromosome Motions. <i>Annual Review of Cell and Developmental Biology</i> , 2017 , 33, 1-22	12.6	14	
23	Life cycles of yeast spindle pole bodies: Getting microtubules into a closed nucleus. <i>Biology of the Cell</i> , 1999 , 91, 305-312	3.5	14	
22	Molecular characterization of a cytoplasmic dynein from Dictyostelium. <i>Journal of Eukaryotic Microbiology</i> , 1994 , 41, 645-51	3.6	12	

21	Chromosome segregation in fission yeast with mutations in the tubulin folding cofactor D. <i>Current Genetics</i> , 2006 , 50, 281-94	2.9	11
20	Dynamics of tubulin and calmodulin in the mammalian mitotic spindle. <i>Annals of the New York Academy of Sciences</i> , 1986 , 466, 566-79	6.5	11
19	Two distinct isoforms of sea urchin egg dynein. <i>Cytoskeleton</i> , 1992 , 21, 281-92		10
18	A screen for genes involved in the anaphase proteolytic pathway identifies tsm1(+), a novel Schizosaccharomyces pombe gene important for microtubule integrity. <i>Genetics</i> , 1998 , 149, 1251-64	4	9
17	Preparing Fission Yeast for Electron Microscopy. Cold Spring Harbor Protocols, 2017, 2017,	1.2	6
16	Regulation of chromosome speeds in mitosis. <i>Cellular and Molecular Bioengineering</i> , 2013 , 6, 418-430	3.9	6
15	Novel interactions of fission yeast kinesin 8 revealed through in vivo expression of truncation alleles. <i>Cytoskeleton</i> , 2008 , 65, 626-40		6
14	Large-Scale Electron Tomography of Cells Using SerialEM and IMOD 2018 , 95-116		4
13	An introduction to microtubules. <i>Journal of Supramolecular Structure</i> , 1974 , 2, 385-92		4
12	Motors or dynamics: what really moves chromosomes?. <i>Nature Cell Biology</i> , 2012 , 14, 1234	23.4	3
12	Motors or dynamics: what really moves chromosomes?. <i>Nature Cell Biology</i> , 2012 , 14, 1234 Anaphase A. <i>Seminars in Cell and Developmental Biology</i> , 2021 , 117, 118-126	23.4 7.5	3
11	Anaphase A. Seminars in Cell and Developmental Biology, 2021 , 117, 118-126	7.5	3
11	Anaphase A. Seminars in Cell and Developmental Biology, 2021, 117, 118-126 Ultrastructural Analysis of Microtubule Ends. Methods in Molecular Biology, 2020, 2101, 191-209	7.5	3 3 2
11 10	Anaphase A. Seminars in Cell and Developmental Biology, 2021, 117, 118-126 Ultrastructural Analysis of Microtubule Ends. Methods in Molecular Biology, 2020, 2101, 191-209 Electron Microscopy of Fission Yeast. Cold Spring Harbor Protocols, 2017, 2017,	7.5	3 3 2
11 10 9	Anaphase A. Seminars in Cell and Developmental Biology, 2021, 117, 118-126 Ultrastructural Analysis of Microtubule Ends. Methods in Molecular Biology, 2020, 2101, 191-209 Electron Microscopy of Fission Yeast. Cold Spring Harbor Protocols, 2017, 2017, Mechanisms of chromosome biorientation and bipolar spindle assembly analyzed by computational models.	7.5 1.4 1.2	3 2 2
11 10 9 8	Anaphase A. Seminars in Cell and Developmental Biology, 2021, 117, 118-126 Ultrastructural Analysis of Microtubule Ends. Methods in Molecular Biology, 2020, 2101, 191-209 Electron Microscopy of Fission Yeast. Cold Spring Harbor Protocols, 2017, 2017, Mechanisms of chromosome biorientation and bipolar spindle assembly analyzed by computational model. Mitosis futures: the past is prologue. Molecular Biology of the Cell, 2011, 22, 3933-5	7.5 1.4 1.2	3 3 2 2

LIST OF PUBLICATIONS

3 A brief scientific biography of Prof. Alan J. Hunt. *Cellular and Molecular Bioengineering*, **2013**, 6, 356-360 3.9

2	Resources for the Study of Cellular Structure by High Voltage Electron Tomography, Serial Thin Sectioning, Specific Labeling, and Image Analysis. <i>Microscopy and Microanalysis</i> , 1997 , 3, 273-274	0.5
1	Regulation of Mitotic Microtubule Dynamic Instability in Monopolar Spindles by Bundling and Kinetochore Attachment. <i>FASEB Journal</i> . 2017 . 31. 932.6	0.9