

Helder Maiato

List of Publications by Year in descending order

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107
papers

6,570
citations

87723

38
h-index

71532

76
g-index

124
all docs

124
docs citations

124
times ranked

5977
citing authors

#	ARTICLE	IF	CITATIONS
1	Stuck in Division or Passing through. <i>Developmental Cell</i> , 2004, 7, 637-651.	3.1	599
2	Asymmetric CLASP-Dependent Nucleation of Noncentrosomal Microtubules at the trans-Golgi Network. <i>Developmental Cell</i> , 2007, 12, 917-930.	3.1	481
3	Essential Roles of <i>Drosophila</i> Inner Centromere Protein (Incenp) and Aurora B in Histone H3 Phosphorylation, Metaphase Chromosome Alignment, Kinetochore Disjunction, and Chromosome Segregation. <i>Journal of Cell Biology</i> , 2001, 153, 865-880.	2.3	442
4	The dynamic kinetochore-microtubule interface. <i>Journal of Cell Science</i> , 2004, 117, 5461-5477.	1.2	346
5	Kinetochore-driven formation of kinetochore fibers contributes to spindle assembly during animal mitosis. <i>Journal of Cell Biology</i> , 2004, 167, 831-840.	2.3	284
6	Microtubule detyrosination guides chromosomes during mitosis. <i>Science</i> , 2015, 348, 799-803.	6.0	202
7	Human CLASP1 Is an Outer Kinetochore Component that Regulates Spindle Microtubule Dynamics. <i>Cell</i> , 2003, 113, 891-904.	13.5	199
8	<i>Drosophila</i> CLASP is required for the incorporation of microtubule subunits into fluxing kinetochore fibres. <i>Nature Cell Biology</i> , 2005, 7, 42-47.	4.6	176
9	Mechanisms of Chromosome Congression during Mitosis. <i>Biology</i> , 2017, 6, 13.	1.3	139
10	Mitotic spindle multipolarity without centrosome amplification. <i>Nature Cell Biology</i> , 2014, 16, 386-394.	4.6	134
11	Kinetochore motors drive congression of peripheral polar chromosomes by overcoming random arm-ejection forces. <i>Nature Cell Biology</i> , 2014, 16, 1249-1256.	4.6	128
12	CLASP1, astrin and Kif2b form a molecular switch that regulates kinetochore-microtubule dynamics to promote mitotic progression and fidelity. <i>EMBO Journal</i> , 2010, 29, 3531-3543.	3.5	123
13	MAST/Orbit has a role in microtubule-kinetochore attachment and is essential for chromosome alignment and maintenance of spindle bipolarity. <i>Journal of Cell Biology</i> , 2002, 157, 749-760.	2.3	121
14	Motor-Independent Targeting of CLASPs to Kinetochores by CENP-E Promotes Microtubule Turnover and Poleward Flux. <i>Current Biology</i> , 2009, 19, 1566-1572.	1.8	120
15	Mammalian CLASP1 and CLASP2 Cooperate to Ensure Mitotic Fidelity by Regulating Spindle and Kinetochore Function. <i>Molecular Biology of the Cell</i> , 2006, 17, 4526-4542.	0.9	116
16	Heterochromatin boundaries are hotspots for de novo kinetochore formation. <i>Nature Cell Biology</i> , 2011, 13, 799-808.	4.6	114
17	Spatiotemporal control of mitosis by the conserved spindle matrix protein Megator. <i>Journal of Cell Biology</i> , 2009, 184, 647-657.	2.3	111
18	Human chromokinesins promote chromosome congression and spindle microtubule dynamics during mitosis. <i>Journal of Cell Biology</i> , 2012, 198, 847-863.	2.3	111

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19	Feedback control of chromosome separation by a midzone Aurora B gradient. <i>Science</i> , 2014, 345, 332-336.	6.0	111
20	Mast, a conserved microtubule-associated protein required for bipolar mitotic spindle organization. <i>EMBO Journal</i> , 2000, 19, 3668-3682.	3.5	106
21	Chromosome Segregation Is Biased by Kinetochore Size. <i>Current Biology</i> , 2018, 28, 1344-1356.e5.	1.8	94
22	Synchronizing chromosome segregation by flux-dependent force equalization at kinetochores. <i>Journal of Cell Biology</i> , 2009, 186, 11-26.	2.3	88
23	CLASPs prevent irreversible multipolarity by ensuring spindle-pole resistance to traction forces during chromosome alignment. <i>Nature Cell Biology</i> , 2012, 14, 295-303.	4.6	88
24	Cdk1 and Plk1 mediate a CLASP2 phospho-switch that stabilizes kinetochore-microtubule attachments. <i>Journal of Cell Biology</i> , 2012, 199, 285-301.	2.3	80
25	Differential regulation of transition zone and centriole proteins contributes to ciliary base diversity. <i>Nature Cell Biology</i> , 2018, 20, 928-941.	4.6	78
26	Microtubule-Associated Proteins and Their Essential Roles During Mitosis. <i>International Review of Cytology</i> , 2004, 241, 53-153.	6.2	66
27	Kinetochores Use a Novel Mechanism for Coordinating the Dynamics of Individual Microtubules. <i>Current Biology</i> , 2006, 16, 1217-1223.	1.8	65
28	Dual Role of Topoisomerase II in Centromere Resolution and Aurora B Activity. <i>PLoS Biology</i> , 2008, 6, e207.	2.6	65
29	Spindle assembly checkpoint robustness requires Tpr-mediated regulation of Mad1/Mad2 proteostasis. <i>Journal of Cell Biology</i> , 2013, 203, 883-893.	2.3	63
30	Genes involved in centrosome-independent mitotic spindle assembly in <i>Drosophila</i> S2 cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19808-19813.	3.3	62
31	The Tubulin Code: A Navigation System for Chromosomes during Mitosis. <i>Trends in Cell Biology</i> , 2016, 26, 766-775.	3.6	60
32	An organelle-exclusion envelope assists mitosis and underlies distinct molecular crowding in the spindle region. <i>Journal of Cell Biology</i> , 2015, 210, 695-704.	2.3	59
33	Microtubule poleward flux in human cells is driven by the coordinated action of four kinesins. <i>EMBO Journal</i> , 2020, 39, e105432.	3.5	59
34	The ultrastructure of the kinetochore and kinetochore fiber in <i>Drosophila</i> somatic cells. <i>Chromosoma</i> , 2006, 115, 469-480.	1.0	56
35	Aurora B spatially regulates EB3 phosphorylation to coordinate daughter cell adhesion with cytokinesis. <i>Journal of Cell Biology</i> , 2013, 201, 709-724.	2.3	54
36	Late mitotic functions of Aurora kinases. <i>Chromosoma</i> , 2017, 126, 93-103.	1.0	47

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37	Protein Phosphatase 1 inactivates Mps1 to ensure efficient Spindle Assembly Checkpoint silencing. <i>ELife</i> , 2017, 6, .	2.8	46
38	<i>Drosophila</i> Polo regulates the spindle assembly checkpoint through Mps1-dependent BubR1 phosphorylation. <i>EMBO Journal</i> , 2013, 32, 1761-1777.	3.5	44
39	Microtubule Cytoskeleton Remodeling by Acentriolar Microtubule-organizing Centers at the Entry and Exit from Mitosis in <i>Drosophila</i> Somatic Cells. <i>Molecular Biology of the Cell</i> , 2009, 20, 2796-2808.	0.9	39
40	The perpetual movements of anaphase. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 2251-2269.	2.4	39
41	The Tubulin Code in Mitosis and Cancer. <i>Cells</i> , 2020, 9, 2356.	1.8	39
42	Spatiotemporal control of mitotic exit during anaphase by an aurora B-Cdk1 crosstalk. <i>ELife</i> , 2019, 8, .	2.8	39
43	Dissecting mitosis by RNAi in <i>Drosophila</i> tissue culture cells. <i>Biological Procedures Online</i> , 2003, 5, 153-161.	1.4	37
44	Esperanto for histones: CENP-A, not CenH3, is the centromeric histone H3 variant. <i>Chromosome Research</i> , 2013, 21, 101-106.	1.0	37
45	Polar Ejection Forces Promote the Conversion from Lateral to End-on Kinetochore-Microtubule Attachments on Mono-oriented Chromosomes. <i>Cell Reports</i> , 2015, 13, 460-468.	2.9	36
46	The Microtubule Plus-End Tracking Protein CLASP2 Is Required for Hematopoiesis and Hematopoietic Stem Cell Maintenance. <i>Cell Reports</i> , 2012, 2, 781-788.	2.9	35
47	Robust gap repair in the contractile ring ensures timely completion of cytokinesis. <i>Journal of Cell Biology</i> , 2016, 215, 789-799.	2.3	35
48	A Regulatory Switch Alters Chromosome Motions at the Metaphase-to-Anaphase Transition. <i>Cell Reports</i> , 2016, 17, 1728-1738.	2.9	34
49	An anaphase surveillance mechanism prevents micronuclei formation from frequent chromosome segregation errors. <i>Cell Reports</i> , 2021, 37, 109783.	2.9	34
50	Chromokinesins. <i>Current Biology</i> , 2018, 28, R1131-R1135.	1.8	33
51	Maturation of the kinetochore-microtubule interface and the meaning of metaphase. <i>Chromosome Research</i> , 2012, 20, 563-577.	1.0	32
52	Modulation of Golgi-associated microtubule nucleation throughout the cell cycle. <i>Cytoskeleton</i> , 2013, 70, 32-43.	1.0	32
53	The dynamic spindle matrix. <i>Current Opinion in Cell Biology</i> , 2014, 28, 1-7.	2.6	32
54	Improved kymography tools and its applications to mitosis. <i>Methods</i> , 2010, 51, 214-219.	1.9	31

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55	A chromosome separation checkpoint. <i>BioEssays</i> , 2015, 37, 257-266.	1.2	30
56	Î±-Tubulin detyrosination impairs mitotic error correction by suppressing MCAK centromeric activity. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	30
57	Coherent-hybrid STED: high contrast sub-diffraction imaging using a bi-vortex depletion beam. <i>Optics Express</i> , 2019, 27, 8092.	1.7	29
58	Kinetochoresâ€™ microtubule interactions during cell division. <i>Chromosome Research</i> , 2004, 12, 585-597.	1.0	28
59	How Do Kinetochores CLASP Dynamic Microtubules?. <i>Cell Cycle</i> , 2003, 2, 511-514.	1.3	26
60	Chromator is required for proper microtubule spindle formation and mitosis in <i>Drosophila</i> . <i>Developmental Biology</i> , 2009, 334, 253-263.	0.9	26
61	A nuclear-derived proteinaceous matrix embeds the microtubule spindle apparatus during mitosis. <i>Molecular Biology of the Cell</i> , 2012, 23, 3532-3541.	0.9	26
62	Mitch â€™ a rapidly evolving component of the Ndc80 kinetochore complex required for correct chromosome segregation in <i>Drosophila</i> . <i>Journal of Cell Science</i> , 2007, 120, 3522-3533.	1.2	25
63	Imidazole-grafted chitosan-mediated gene delivery: <i>in vitro</i> study on transfection, intracellular trafficking and degradation. <i>Nanomedicine</i> , 2011, 6, 1499-1512.	1.7	25
64	Establishment and mitotic characterization of new <i>Drosophila</i> acentriolar cell lines from DSas-4 mutant. <i>Biology Open</i> , 2013, 2, 314-323.	0.6	24
65	Dissecting the role of the tubulin code in mitosis. <i>Methods in Cell Biology</i> , 2018, 144, 33-74.	0.5	23
66	Centrosomeâ€™ nuclear axis repositioning drives the assembly of a bipolar spindle scaffold to ensure mitotic fidelity. <i>Molecular Biology of the Cell</i> , 2020, 31, 1675-1690.	0.9	23
67	Dynein and Mast/Orbit/CLASP have antagonistic roles in regulating kinetochore-microtubule plus-end dynamics. <i>Journal of Cell Science</i> , 2009, 122, 2543-2553.	1.2	22
68	Microtubule Plus-End Tracking Proteins and Their Roles in Cell Division. <i>International Review of Cell and Molecular Biology</i> , 2014, 309, 59-140.	1.6	22
69	Acto-myosin force organization modulates centriole separation and PLK4 recruitment to ensure centriole fidelity. <i>Nature Communications</i> , 2019, 10, 52.	5.8	22
70	The tumour suppressor DLC2 ensures mitotic fidelity by coordinating spindle positioning and cellâ€™ cell adhesion. <i>Nature Communications</i> , 2014, 5, 5826.	5.8	20
71	CLASP2 binding to curved microtubule tips promotes flux and stabilizes kinetochore attachments. <i>Journal of Cell Biology</i> , 2020, 219, jcb.201905080.	2.3	20
72	The equatorial position of the metaphase plate ensures symmetric cell divisions. <i>ELife</i> , 2015, 4, .	2.8	19

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73	Dissecting Mitosis with Laser Microsurgery and RNAi in Drosophila Cells. <i>Methods in Molecular Biology</i> , 2009, 545, 145-164.	0.4	18
74	Mitotic progression, arrest, exit or death relies on centromere structural integrity, rather than de novo transcription. <i>ELife</i> , 2018, 7, .	2.8	18
75	Dynein prevents erroneous kinetochore-microtubule attachments in mitosis. <i>Cell Cycle</i> , 2015, 14, 3356-3361.	1.3	17
76	Augmin-dependent microtubule self-organization drives kinetochore fiber maturation in mammals. <i>Cell Reports</i> , 2022, 39, 110610.	2.9	14
77	Drosophila S2 Cells as a Model System to Investigate Mitotic Spindle Dynamics, Architecture, and Function. <i>Methods in Cell Biology</i> , 2010, 97, 243-257.	0.5	12
78	Closing the tubulin detyrosination cycle. <i>Science</i> , 2017, 358, 1381-1382.	6.0	12
79	Prometaphase. <i>Seminars in Cell and Developmental Biology</i> , 2021, 117, 52-61.	2.3	12
80	Measurement of Microtubule Half-Life and Poleward Flux in the Mitotic Spindle by Photoactivation of Fluorescent Tubulin. <i>Methods in Molecular Biology</i> , 2020, 2101, 235-246.	0.4	11
81	Reed-Sternberg Cells Form by Abscission Failure in the Presence of Functional Aurora B Kinase. <i>PLoS ONE</i> , 2015, 10, e0124629.	1.1	11
82	Prevention and Correction Mechanisms behind Anaphase Synchrony: Implications for the Genesis of Aneuploidy. <i>Cytogenetic and Genome Research</i> , 2011, 133, 243-253.	0.6	9
83	Plk1 puts a (Has)pin on the mitotic histone code. <i>EMBO Reports</i> , 2014, 15, 203-204.	2.0	9
84	N-terminus-modified Hec1 suppresses tumour growth by interfering with kinetochore-microtubule dynamics. <i>Oncogene</i> , 2015, 34, 3325-3335.	2.6	9
85	No chromosome left behind: The importance of metaphase alignment for mitotic fidelity. <i>Journal of Cell Biology</i> , 2019, 218, 1086-1088.	2.3	9
86	Fluorescent Speckle Microscopy in Cultured Cells. <i>Methods in Enzymology</i> , 2012, 504, 147-161.	0.4	6
87	Motor-Dependent and -Independent Roles of CENP-E at Kinetochores: The Cautionary Tale of UA62784. <i>Chemistry and Biology</i> , 2011, 18, 679-680.	6.2	5
88	Selective tracking of template DNA strands after induction of mitosis with unreplicated genomes (MUGs) in Drosophila S2 cells. <i>Chromosome Research</i> , 2013, 21, 329-337.	1.0	5
89	Conformational Mechanism for the Stability of Microtubule-Kinetochore Attachments. <i>Biophysical Journal</i> , 2014, 107, 289-300.	0.2	5
90	Inducible fluorescent speckle microscopy. <i>Journal of Cell Biology</i> , 2016, 212, 245-255.	2.3	4

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91	Cracking the (tubulin) code of mitosis. <i>Oncotarget</i> , 2015, 6, 19356-19357.	0.8	4
92	Functional Dissection of Mitosis Using Immortalized Fibroblasts from the Indian Muntjac, a Placental Mammal with Only Three Chromosomes. <i>Methods in Molecular Biology</i> , 2020, 2101, 247-266.	0.4	3
93	Mitosis: wisdom, knowledge, and information. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 2141-2143.	2.4	2
94	Spatial control of the anaphase-telophase transition. <i>Cell Cycle</i> , 2014, 13, 2985-2986.	1.3	2
95	Cell Division: NuMA Bears the Load in the Spindle. <i>Current Biology</i> , 2017, 27, R765-R767.	1.8	2
96	Aurora Mitochondrialis Drives Fission during Mitosis. <i>Developmental Cell</i> , 2011, 21, 387-388.	3.1	1
97	Unbiased about chromosome segregation: give me a mechanism and I will make you "immortal". <i>Chromosome Research</i> , 2013, 21, 189-191.	1.0	1
98	Membrane-based mechanisms of mitotic spindle assembly. <i>Communicative and Integrative Biology</i> , 2015, 8, e1112473.	0.6	1
99	Actin divides to conquer. <i>Science</i> , 2017, 357, 756-757.	6.0	1
100	SOGA1 and SOGA2/MTCL1 are CLASP-interacting proteins required for faithful chromosome segregation in human cells. <i>Chromosome Research</i> , 2021, 29, 159-173.	1.0	1
101	Chromosomal instability: Stretching the role of checkpoint silencing. <i>Current Biology</i> , 2021, 31, R386-R389.	1.8	1
102	Mitosis: Kinetochores determined against random search-and-capture. <i>Current Biology</i> , 2022, 32, R231-R234.	1.8	1
103	Helder Maiato: Hot (+)TIPs on mitosis. <i>Journal of Cell Biology</i> , 2013, 202, 722-723.	2.3	0
104	Miguel Mota (1922-2016) "the kinetochore engine(er)". <i>Chromosome Research</i> , 2016, 24, 281-283.	1.0	0
105	Let there be light. <i>Nature Chemical Biology</i> , 2017, 13, 1058-1059.	3.9	0
106	Helder Maiato. <i>Current Biology</i> , 2019, 29, R1165-R1168.	1.8	0
107	Mitosis under the microscope. <i>Seminars in Cell and Developmental Biology</i> , 2021, 117, 1-5.	2.3	0