

Christian Hring

List of Publications by Year in Descending Order

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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.

45
papers

4,313
citations

28
h-index

49
g-index

49
ext. papers

5,381
ext. citations

17.2
avg. IF

5.82
L-index

#	Paper	IF	Citations
45	A hold-and-feed mechanism drives directional DNA loop extrusion by condensin. <i>Science</i> , 2022 , 376, 1087-1094	35.3	194
44	DNA-loop extruding condensin complexes can traverse one another. <i>Nature</i> , 2020 , 579, 438-442	50.4	55
43	The condensin holocomplex cycles dynamically between open and collapsed states. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1134-1141	17.6	29
42	Cryo-EM structures of holo condensin reveal a subunit flip-flop mechanism. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 743-751	17.6	47
41	Structural insights into DNA loop extrusion by SMC protein complexes. <i>Current Opinion in Structural Biology</i> , 2020 , 65, 102-109	8.1	8
40	Structural Basis of an Asymmetric Condensin ATPase Cycle. <i>Molecular Cell</i> , 2019 , 74, 1175-1188.e9	17.6	41
39	Twist to disentangle. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 252-253	17.6	1
38	Solution structure and flexibility of the condensin HEAT-repeat subunit Ycg1. <i>Journal of Biological Chemistry</i> , 2019 , 294, 13822-13829	5.4	7
37	Distinct Roles for Condensin's Two ATPase Sites in Chromosome Condensation. <i>Molecular Cell</i> , 2019 , 76, 724-737.e5	17.6	20
36	Real-time imaging of DNA loop extrusion by condensin. <i>Science</i> , 2018 , 360, 102-105	33.3	357
35	Control of mitotic chromosome condensation by the fission yeast transcription factor Zas1. <i>Journal of Cell Biology</i> , 2018 , 217, 2383-2401	7.3	3
34	Structural basis for Scc3-dependent cohesin recruitment to chromatin. <i>ELife</i> , 2018 , 7,	8.9	43
33	Condensin controls cellular RNA levels through the accurate segregation of chromosomes instead of directly regulating transcription. <i>ELife</i> , 2018 , 7,	8.9	16
32	Towards a Unified Model of SMC Complex Function. <i>Current Biology</i> , 2018 , 28, R1266-R1281	6.3	111
31	Structural Basis for a Safety-Belt Mechanism That Anchors Condensin to Chromosomes. <i>Cell</i> , 2017 , 171, 588-600.e24	56.2	101
30	Two independent modes of chromatin organization revealed by cohesin removal. <i>Nature</i> , 2017 , 551, 51-56	50.4	589
29	The condensin complex is a mechanochemical motor that translocates along DNA. <i>Science</i> , 2017 , 358, 672-676	33.3	197

28	Real-time detection of condensin-driven DNA compaction reveals a multistep binding mechanism. <i>EMBO Journal</i> , 2017 , 36, 3448-3457	13	55
27	A Protocol for Measuring Mitotic Chromosome Condensation Quantitatively in Fission Yeast Cells. <i>Methods in Molecular Biology</i> , 2017 , 1515, 245-255	1.4	1
26	Condensin Smc2-Smc4 Dimers Are Flexible and Dynamic. <i>Cell Reports</i> , 2016 , 14, 1813-8	10.6	69
25	SnapShot: SMC Protein Complexes Part I. <i>Cell</i> , 2016 , 164, 326-326.e1	56.2	29
24	Structure of the Pds5-Scc1 Complex and Implications for Cohesin Function. <i>Cell Reports</i> , 2016 , 14, 2116-2126	11.6	29
23	Nucleosome eviction in mitosis assists condensin loading and chromosome condensation. <i>EMBO Journal</i> , 2016 , 35, 1565-81	13	31
22	Control of chromosome interactions by condensin complexes. <i>Current Opinion in Cell Biology</i> , 2015 , 34, 94-100	9	11
21	Shaping mitotic chromosomes: From classical concepts to molecular mechanisms. <i>BioEssays</i> , 2015 , 37, 755-66	4.1	65
20	Association of condensin with chromosomes depends on DNA binding by its HEAT-repeat subunits. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 560-8	17.6	86
19	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
18	Entrapment of chromosomes by condensin rings prevents their breakage during cytokinesis. <i>Developmental Cell</i> , 2013 , 27, 469-78	10.2	36
17	Condensin: crafting the chromosome landscape. <i>Chromosoma</i> , 2013 , 122, 175-90	2.8	32
16	Quantitative analysis of chromosome condensation in fission yeast. <i>Molecular and Cellular Biology</i> , 2013 , 33, 984-98	4.8	48
15	Cohesin in determining chromosome architecture. <i>Experimental Cell Research</i> , 2012 , 318, 1386-93	4.2	29
14	Deciphering condensin action during chromosome segregation. <i>Trends in Cell Biology</i> , 2011 , 21, 552-9	18.3	52
13	Condensin engages chromatin. <i>ChemBioChem</i> , 2011 , 12, 2399-401	3.8	
12	Condensin structures chromosomal DNA through topological links. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 894-901	17.6	161
11	Foreword: the many fascinating functions of SMC protein complexes. <i>Chromosome Research</i> , 2009 , 17, 127-9	4.4	3

10	Cohesin: its roles and mechanisms. <i>Annual Review of Genetics</i> , 2009 , 43, 525-58	14.5	723
9	The cohesin ring concatenates sister DNA molecules. <i>Nature</i> , 2008 , 454, 297-301	50.4	351
8	Structure and stability of cohesin's Smc1-kleisin interaction. <i>Molecular Cell</i> , 2004 , 15, 951-64	17.6	246
7	Molecular architecture of SMC proteins and the yeast cohesin complex. <i>Molecular Cell</i> , 2002 , 9, 773-88	17.6	565
6	A hold-and-feed mechanism drives directional DNA loop extrusion by condensin		3
5	Real-time detection of condensin-driven DNA compaction reveals a multistep binding mechanism		3
4	AFM images of open and collapsed states of yeast condensin suggest a scrunching model for DNA loop extrusion		4
3	Condensin-ATPase Machinery Drives and Dampens Mitotic Chromosome Condensation		4
2	Condensin II inactivation in interphase does not affect chromatin folding or gene expression		7
1	DNA-loop extruding condensin complexes can traverse one another		4