

Kim Nasmyth

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

11,955
citations

87723

38
h-index

189595

50
g-index

59
all docs

59
docs citations

59
times ranked

7080
citing authors

#	ARTICLE	IF	CITATIONS
1	Cohesins: Chromosomal Proteins that Prevent Premature Separation of Sister Chromatids. <i>Cell</i> , 1997, 91, 35-45.	13.5	1,391
2	Cohesin: Its Roles and Mechanisms. <i>Annual Review of Genetics</i> , 2009, 43, 525-558.	3.2	869
3	Disseminating the Genome: Joining, Resolving, and Separating Sister Chromatids During Mitosis and Meiosis. <i>Annual Review of Genetics</i> , 2001, 35, 673-745.	3.2	752
4	A Central Role for Cohesins in Sister Chromatid Cohesion, Formation of Axial Elements, and Recombination during Yeast Meiosis. <i>Cell</i> , 1999, 98, 91-103.	13.5	702
5	Cohesin's Binding to Chromosomes Depends on a Separate Complex Consisting of Scc2 and Scc4 Proteins. <i>Molecular Cell</i> , 2000, 5, 243-254.	4.5	665
6	Molecular Architecture of SMC Proteins and the Yeast Cohesin Complex. <i>Molecular Cell</i> , 2002, 9, 773-788.	4.5	649
7	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. <i>Nature Methods</i> , 2008, 5, 409-415.	9.0	568
8	Chromosomal Cohesin Forms a Ring. <i>Cell</i> , 2003, 112, 765-777.	13.5	540
9	The cohesin ring concatenates sister DNA molecules. <i>Nature</i> , 2008, 454, 297-301.	13.7	434
10	Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. <i>Nature</i> , 2006, 441, 53-61.	13.7	419
11	Structure and Stability of Cohesin's Smc1-Kleisin Interaction. <i>Molecular Cell</i> , 2004, 15, 951-964.	4.5	289
12	Functional Genomics Identifies Monopolin. <i>Cell</i> , 2000, 103, 1155-1168.	13.5	286
13	Evidence that Loading of Cohesin Onto Chromosomes Involves Opening of Its SMC Hinge. <i>Cell</i> , 2006, 127, 523-537.	13.5	271
14	Closing the cohesin ring: Structure and function of its Smc3-kleisin interface. <i>Science</i> , 2014, 346, 963-967.	6.0	255
15	ATP Hydrolysis Is Required for Cohesin's Association with Chromosomes. <i>Current Biology</i> , 2003, 13, 1941-1953.	1.8	254
16	Cohesin: a catenase with separate entry and exit gates?. <i>Nature Cell Biology</i> , 2011, 13, 1170-1177.	4.6	252
17	Organization of Chromosomal DNA by SMC Complexes. <i>Annual Review of Genetics</i> , 2019, 53, 445-482.	3.2	236
18	Cohesin's DNA Exit Gate Is Distinct from Its Entrance Gate and Is Regulated by Acetylation. <i>Cell</i> , 2012, 150, 961-974.	13.5	230

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19	Rec8-containing cohesin maintains bivalents without turnover during the growing phase of mouse oocytes. <i>Genes and Development</i> , 2010, 24, 2505-2516.	2.7	225
20	Human Scc4 Is Required for Cohesin Binding to Chromatin, Sister-Chromatid Cohesion, and Mitotic Progression. <i>Current Biology</i> , 2006, 16, 863-874.	1.8	223
21	Resolution of Chiasmata in Oocytes Requires Separase-Mediated Proteolysis. <i>Cell</i> , 2006, 126, 135-146.	13.5	218
22	Structure and Function of the PP2A-Shugoshin Interaction. <i>Molecular Cell</i> , 2009, 35, 426-441.	4.5	201
23	Regulation of APC/C Activity in Oocytes by a Bub1-Dependent Spindle Assembly Checkpoint. <i>Current Biology</i> , 2009, 19, 369-380.	1.8	194
24	Rec8 Phosphorylation by Casein Kinase 1 and Cdc7-Dbf4 Kinase Regulates Cohesin Cleavage by Separase during Meiosis. <i>Developmental Cell</i> , 2010, 18, 397-409.	3.1	192
25	ATP Hydrolysis Is Required for Relocating Cohesin from Sites Occupied by Its Scc2/4 Loading Complex. <i>Current Biology</i> , 2011, 21, 12-24.	1.8	173
26	Biological chromodynamics: a general method for measuring protein occupancy across the genome by calibrating ChIP-seq. <i>Nucleic Acids Research</i> , 2015, 43, gkv670.	6.5	131
27	A folded conformation of MukBEF and cohesin. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 227-236.	3.6	121
28	Releasing Activity Disengages Cohesin's Smc3/Scc1 Interface in a Process Blocked by Acetylation. <i>Molecular Cell</i> , 2016, 61, 563-574.	4.5	110
29	Pds5 promotes and protects cohesin acetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13020-13025.	3.3	108
30	Condensin confers the longitudinal rigidity of chromosomes. <i>Nature Cell Biology</i> , 2015, 17, 771-781.	4.6	99
31	Spo13 Facilitates Monopolin Recruitment to Kinetochores and Regulates Maintenance of Centromeric Cohesion during Yeast Meiosis. <i>Current Biology</i> , 2004, 14, 2183-2196.	1.8	91
32	Cohesin Releases DNA through Asymmetric ATPase-Driven Ring Opening. <i>Molecular Cell</i> , 2016, 61, 575-588.	4.5	88
33	Scc2/Nipbl hops between chromosomal cohesin rings after loading. <i>ELife</i> , 2017, 6, .	2.8	84
34	Structure and function of cohesin's Scc3/SA regulatory subunit. <i>FEBS Letters</i> , 2014, 588, 3692-3702.	1.3	73
35	Transport of DNA within cohesin involves clamping on top of engaged heads by Scc2 and entrapment within the ring by Scc3. <i>ELife</i> , 2020, 9, .	2.8	67
36	Dependency of the Spindle Assembly Checkpoint on Cdk1 Renders the Anaphase Transition Irreversible. <i>Current Biology</i> , 2014, 24, 630-637.	1.8	63

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37	Sister DNA Entrapment between Juxtaposed Smc Heads and Kleisin of the Cohesin Complex. <i>Molecular Cell</i> , 2019, 75, 224-237.e5.	4.5	62
38	Crystal Structure of the Cohesin Gatekeeper Pds5 and in Complex with Kleisin Scc1. <i>Cell Reports</i> , 2016, 14, 2108-2115.	2.9	52
39	Spindle Assembly Checkpoint of Oocytes Depends on a Kinetochores Structure Determined by Cohesin in Meiosis I. <i>Current Biology</i> , 2013, 23, 2534-2539.	1.8	41
40	Cyclin A2 Is Required for Sister Chromatid Segregation, But Not Separase Control, in Mouse Oocyte Meiosis. <i>Cell Reports</i> , 2012, 2, 1077-1087.	2.9	37
41	Folding of cohesin's coiled coil is important for Scc2/4-induced association with chromosomes. <i>ELife</i> , 2021, 10, .	2.8	37
42	Cohesion is established during DNA replication utilising chromosome associated cohesin rings as well as those loaded de novo onto nascent DNAs. <i>ELife</i> , 2020, 9, .	2.8	36
43	Scc2 counteracts a Wapl-independent mechanism that releases cohesin from chromosomes during G1. <i>ELife</i> , 2019, 8, .	2.8	33
44	Centromere-Independent Accumulation of Cohesin at Ectopic Heterochromatin Sites Induces Chromosome Stretching during Anaphase. <i>PLoS Biology</i> , 2014, 12, e1001962.	2.6	32
45	MCPH1 inhibits Condensin II during interphase by regulating its SMC2-Kleisin interface. <i>ELife</i> , 2021, 10, .	2.8	21
46	How are DNAs woven into chromosomes?. <i>Science</i> , 2017, 358, 589-590.	6.0	20
47	A meiotic mystery: How sister kinetochores avoid being pulled in opposite directions during the first division. <i>BioEssays</i> , 2015, 37, 657-665.	1.2	19
48	Loss of sister kinetochores co-orientation and peri-centromeric cohesin protection after meiosis I depends on cleavage of centromeric REC8. <i>Developmental Cell</i> , 2021, 56, 3100-3114.e4.	3.1	12
49	APC/CCdh1 Enables Removal of Shugoshin-2 from the Arms of Bivalent Chromosomes by Moderating Cyclin-Dependent Kinase Activity. <i>Current Biology</i> , 2017, 27, 1462-1476.e5.	1.8	8
50	The magic and meaning of Mendel's miracle. <i>Nature Reviews Genetics</i> , 2022, 23, 447-452.	7.7	6
51	How Far Will We See in the Future?. <i>Molecular Biology of the Cell</i> , 2010, 21, 3813-3814.	0.9	0