Kim Nasmyth

List of Publications by Year
in descending order

51	11,955	87888 38	189892 50
papers	citations	h-index	g-index

59	59	59	7080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cohesins: Chromosomal Proteins that Prevent Premature Separation of Sister Chromatids. Cell, 1997, 91, 35-45.	28.9	1,391
2	Cohesin: Its Roles and Mechanisms. Annual Review of Genetics, 2009, 43, 525-558.	7.6	869
3	Disseminating the Genome: Joining, Resolving, and Separating Sister Chromatids During Mitosis and Meiosis. Annual Review of Genetics, 2001, 35, 673-745.	7.6	752
4	A Central Role for Cohesins in Sister Chromatid Cohesion, Formation of Axial Elements, and Recombination during Yeast Meiosis. Cell, 1999, 98, 91-103.	28.9	702
5	Cohesin's Binding to Chromosomes Depends on a Separate Complex Consisting of Scc2 and Scc4 Proteins. Molecular Cell, 2000, 5, 243-254.	9.7	665
6	Molecular Architecture of SMC Proteins and the Yeast Cohesin Complex. Molecular Cell, 2002, 9, 773-788.	9.7	649
7	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. Nature Methods, 2008, 5, 409-415.	19.0	568
8	Chromosomal Cohesin Forms a Ring. Cell, 2003, 112, 765-777.	28.9	540
9	The cohesin ring concatenates sister DNA molecules. Nature, 2008, 454, 297-301.	27.8	434
10	Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. Nature, 2006, 441, 53-61.	27.8	419
11	Structure and Stability of Cohesin's Smc1-Kleisin Interaction. Molecular Cell, 2004, 15, 951-964.	9.7	289
12	Functional Genomics Identifies Monopolin. Cell, 2000, 103, 1155-1168.	28.9	286
13	Evidence that Loading of Cohesin Onto Chromosomes Involves Opening of Its SMC Hinge. Cell, 2006, 127, 523-537.	28.9	271
14	Closing the cohesin ring: Structure and function of its Smc3-kleisin interface. Science, 2014, 346, 963-967.	12.6	255
15	ATP Hydrolysis Is Required for Cohesin's Association with Chromosomes. Current Biology, 2003, 13, 1941-1953.	3.9	254
16	Cohesin: a catenase with separate entry and exit gates?. Nature Cell Biology, 2011, 13, 1170-1177.	10.3	252
17	Organization of Chromosomal DNA by SMC Complexes. Annual Review of Genetics, 2019, 53, 445-482.	7.6	236
18	Cohesinâ€™s DNA Exit Gate Is Distinct from Its Entrance Gate and Is Regulated by Acetylation. Cell, 2012, 150, 961-974.	28.9	230

#	Article	IF	Citations
19	Rec8-containing cohesin maintains bivalents without turnover during the growing phase of mouse oocytes. Genes and Development, 2010, 24, 2505-2516.	5.9	225
20	Human Scc4 Is Required for Cohesin Binding to Chromatin, Sister-Chromatid Cohesion, and Mitotic Progression. Current Biology, 2006, 16, 863-874.	3.9	223
21	Resolution of Chiasmata in Oocytes Requires Separase-Mediated Proteolysis. Cell, 2006, 126, 135-146.	28.9	218
22	Structure and Function of the PP2A-Shugoshin Interaction. Molecular Cell, 2009, 35, 426-441.	9.7	201
23	Regulation of APC/C Activity in Oocytes by a Bub1-Dependent Spindle Assembly Checkpoint. Current Biology, 2009, 19, 369-380.	3.9	194
24	Rec8 Phosphorylation by Casein Kinase 1 and Cdc7-Dbf4 Kinase Regulates Cohesin Cleavage by Separase during Meiosis. Developmental Cell, 2010, 18, 397-409.	7.0	192
25	ATP Hydrolysis Is Required for Relocating Cohesin from Sites Occupied by Its Scc2/4 Loading Complex. Current Biology, 2011, 21, 12-24.	3.9	173
26	Biological chromodynamics: a general method for measuring protein occupancy across the genome by calibrating ChIP-seq. Nucleic Acids Research, 2015, 43, gkv670.	14.5	131
27	A folded conformation of MukBEF and cohesin. Nature Structural and Molecular Biology, 2019, 26, 227-236.	8.2	121
28	Releasing Activity Disengages Cohesinâ€™s Smc3/Scc1 Interface in a Process Blocked by Acetylation. Molecular Cell, 2016, 61, 563-574.	9.7	110
29	Pds5 promotes and protects cohesin acetylation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13020-13025.	7.1	108
30	Condensin confers the longitudinal rigidity ofÂchromosomes. Nature Cell Biology, 2015, 17, 771-781.	10.3	99
31	Spo13 Facilitates Monopolin Recruitment to Kinetochores and Regulates Maintenance of Centromeric Cohesion during Yeast Meiosis. Current Biology, 2004, 14, 2183-2196.	3.9	91
32	Cohesin Releases DNA through Asymmetric ATPase-Driven Ring Opening. Molecular Cell, 2016, 61, 575-588.	9.7	88
33	Scc2/Nipbl hops between chromosomal cohesin rings after loading. ELife, 2017, 6, .	6.0	84
34	Structure and function of cohesin's Scc3/SA regulatory subunit. FEBS Letters, 2014, 588, 3692-3702.	2.8	73
35	Transport of DNA within cohesin involves clamping on top of engaged heads by Scc2 and entrapment within the ring by Scc3. ELife, 2020, 9, .	6.0	67
36	Dependency of the Spindle Assembly Checkpoint on Cdk1 Renders the Anaphase Transition Irreversible. Current Biology, 2014, 24, 630-637.	3.9	63

#	Article	IF	Citations
37	Sister DNA Entrapment between Juxtaposed Smc Heads and Kleisin of the Cohesin Complex. Molecular Cell, 2019, 75, 224-237.e5.	9.7	62
38	Crystal Structure of the Cohesin Gatekeeper Pds5 and in Complex with Kleisin Scc1. Cell Reports, 2016, 14, 2108-2115.	6.4	52
39	Spindle Assembly Checkpoint of Oocytes Depends on a Kinetochore Structure Determined by Cohesin in Meiosis I. Current Biology, 2013, 23, 2534-2539.	3.9	41
40	Cyclin A2 Is Required for Sister Chromatid Segregation, But Not Separase Control, in Mouse Oocyte Meiosis. Cell Reports, 2012, 2, 1077-1087.	6.4	37
41	Folding of cohesinâ€™s coiled coil is important for Scc2/4-induced association with chromosomes. ELife, 2021, 10, .	6.0	37
42	Cohesion is established during DNA replication utilising chromosome associated cohesin rings as well as those loaded de novo onto nascent DNAs. ELife, 2020, 9, .	6.0	36
43	Scc2 counteracts a Wapl-independent mechanism that releases cohesin from chromosomes during G1. ELife, 2019, 8, .	6.0	33
44	Centromere-Independent Accumulation of Cohesin at Ectopic Heterochromatin Sites Induces Chromosome Stretching during Anaphase. PLoS Biology, 2014, 12, e1001962.	5.6	32
45	MCPH1 inhibits Condensin II during interphase by regulating its SMC2-Kleisin interface. ELife, 2021, 10, .	6.0	21
46	How are DNAs woven into chromosomes?. Science, 2017, 358, 589-590.	12.6	20
47	A meiotic mystery: How sister kinetochores avoid being pulled in opposite directions during the first division. BioEssays, 2015, 37, 657-665.	2.5	19
48	Loss of sister kinetochore co-orientation and peri-centromeric cohesin protection after meiosis I depends on cleavage of centromeric REC8. Developmental Cell, 2021, 56, 3100-3114.e4.	7.0	12
49	APC/CCdh1 Enables Removal of Shugoshin-2 from the Arms of Bivalent Chromosomes by Moderating Cyclin-Dependent Kinase Activity. Current Biology, 2017, 27, 1462-1476.e5.	3.9	8
50	The magic and meaning of Mendelâ€™s miracle. Nature Reviews Genetics, 2022, 23, 447-452.	16.3	6
51	How Far Will We See in the Future?. Molecular Biology of the Cell, 2010, 21, 3813-3814.	2.1	0