Kim Nasmyth

List of Publications by Year
in descending order

51	11,955	87843 38	189801 50
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	The magic and meaning of Mendelâ€™s miracle. Nature Reviews Genetics, 2022, 23, 447-452.	7.7	6
2	Folding of cohesinâ€™s coiled coil is important for Scc2/4-induced association with chromosomes. ELife, 2021, 10, .	2.8	37
3	MCPH1 inhibits Condensin II during interphase by regulating its SMC2-Kleisin interface. ELife, 2021, 10, .	2.8	21
4	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.	3.1	12
5	Cohesion is established during DNA replication utilising chromosome associated cohesin rings as well as those loaded de novo onto nascent DNAs. ELife, 2020, 9, .	2.8	36
6	Transport of DNA within cohesin involves clamping on top of engaged heads by Scc2 and entrapment within the ring by Scc3. ELife, 2020, 9, .	2.8	67
7	Organization of Chromosomal DNA by SMC Complexes. Annual Review of Genetics, 2019, 53, 445-482.	3.2	236
8	Sister DNA Entrapment between Juxtaposed Smc Heads and Kleisin of the Cohesin Complex. Molecular Cell, 2019, 75, 224-237.e5.	4.5	62
9	A folded conformation of MukBEF and cohesin. Nature Structural and Molecular Biology, 2019, 26, 227-236.	3.6	121
10	Scc2 counteracts a Wapl-independent mechanism that releases cohesin from chromosomes during G1. ELife, 2019, 8, .	2.8	33
11	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.	1.8	8
12	How are DNAs woven into chromosomes?. Science, 2017, 358, 589-590.	6.0	20
13	Scc2/Nipbl hops between chromosomal cohesin rings after loading. ELife, 2017, 6, .	2.8	84
14	Cohesin Releases DNA through Asymmetric ATPase-Driven Ring Opening. Molecular Cell, 2016, 61, 575-588.	4.5	88
15	Crystal Structure of the Cohesin Gatekeeper Pds5 and in Complex with Kleisin Scc1. Cell Reports, 2016, 14, 2108-2115.	2.9	52
16	Releasing Activity Disengages Cohesinâ€™s Smc3/Scc1 Interface in a Process Blocked by Acetylation. Molecular Cell, 2016, 61, 563-574.	4.5	110
17	Biological chromodynamics: a general method for measuring protein occupancy across the genome by calibrating ChIP-seq. Nucleic Acids Research, 2015, 43, gkv670.	6.5	131
18	A meiotic mystery: How sister kinetochores avoid being pulled in opposite directions during the first division. BioEssays, 2015, 37, 657-665.	1.2	19

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19	Condensin confers the longitudinal rigidity ofÂchromosomes. Nature Cell Biology, 2015, 17, 771-781.	4.6	99
20	Structure and function of cohesin's Scc3/SA regulatory subunit. FEBS Letters, 2014, 588, 3692-3702.	1.3	73
21	Centromere-Independent Accumulation of Cohesin at Ectopic Heterochromatin Sites Induces Chromosome Stretching during Anaphase. PLoS Biology, 2014, 12, e1001962.	2.6	32
22	Closing the cohesin ring: Structure and function of its Smc3-kleisin interface. Science, 2014, 346, 963-967.	6.0	255
23	Dependency of the Spindle Assembly Checkpoint on Cdk1 Renders the Anaphase Transition Irreversible. Current Biology, 2014, 24, 630-637.	1.8	63
24	Spindle Assembly Checkpoint of Oocytes Depends on a Kinetochore Structure Determined by Cohesin in Meiosis I. Current Biology, 2013, 23, 2534-2539.	1.8	41
25	Pds5 promotes and protects cohesin acetylation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13020-13025.	3.3	108
26	Cohesinâ€™s DNA Exit Gate Is Distinct from Its Entrance Gate and Is Regulated by Acetylation. Cell, 2012, 150, 961-974.	13.5	230
27	Cyclin A2 Is Required for Sister Chromatid Segregation, But Not Separase Control, in Mouse Oocyte Meiosis. Cell Reports, 2012, 2, 1077-1087.	2.9	37
28	ATP Hydrolysis Is Required for Relocating Cohesin from Sites Occupied by Its Scc2/4 Loading Complex. Current Biology, 2011, 21, 12-24.	1.8	173
29	Cohesin: a catenase with separate entry and exit gates?. Nature Cell Biology, 2011, 13, 1170-1177.	4.6	252
30	How Far Will We See in the Future?. Molecular Biology of the Cell, 2010, 21, 3813-3814.	0.9	0
31	Rec8-containing cohesin maintains bivalents without turnover during the growing phase of mouse oocytes. Genes and Development, 2010, 24, 2505-2516.	2.7	225
32	Rec8 Phosphorylation by Casein Kinase 1 and Cdc7-Dbf4 Kinase Regulates Cohesin Cleavage by Separase during Meiosis. Developmental Cell, 2010, 18, 397-409.	3.1	192
33	Regulation of APC/C Activity in Oocytes by a Bub1-Dependent Spindle Assembly Checkpoint. Current Biology, 2009, 19, 369-380.	1.8	194
34	Cohesin: Its Roles and Mechanisms. Annual Review of Genetics, 2009, 43, 525-558.	3.2	869
35	Structure and Function of the PP2A-Shugoshin Interaction. Molecular Cell, 2009, 35, 426-441.	4.5	201
36	The cohesin ring concatenates sister DNA molecules. Nature, 2008, 454, 297-301.	13.7	434

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37	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. Nature Methods, 2008, 5, 409-415.	9.0	568
38	Resolution of Chiasmata in Oocytes Requires Separase-Mediated Proteolysis. Cell, 2006, 126, 135-146.	13.5	218
39	Evidence that Loading of Cohesin Onto Chromosomes Involves Opening of Its SMC Hinge. Cell, 2006, 127, 523-537.	13.5	271
40	Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. Nature, 2006, 441, 53-61.	13.7	419
41	Human Scc4 Is Required for Cohesin Binding to Chromatin, Sister-Chromatid Cohesion, and Mitotic Progression. Current Biology, 2006, 16, 863-874.	1.8	223
42	Spo13 Facilitates Monopolin Recruitment to Kinetochores and Regulates Maintenance of Centromeric Cohesion during Yeast Meiosis. Current Biology, 2004, 14, 2183-2196.	1.8	91
43	Structure and Stability of Cohesin's Smc1-Kleisin Interaction. Molecular Cell, 2004, 15, 951-964.	4.5	289
44	ATP Hydrolysis Is Required for Cohesin's Association with Chromosomes. Current Biology, 2003, 13, 1941-1953.	1.8	254
45	Chromosomal Cohesin Forms a Ring. Cell, 2003, 112, 765-777.	13.5	540
46	Molecular Architecture of SMC Proteins and the Yeast Cohesin Complex. Molecular Cell, 2002, 9, 773-788.	4.5	649
47	Disseminating the Genome: Joining, Resolving, and Separating Sister Chromatids During Mitosis and Meiosis. Annual Review of Genetics, 2001, 35, 673-745.	3.2	752
48	Cohesin's Binding to Chromosomes Depends on a Separate Complex Consisting of Scc2 and Scc4 Proteins. Molecular Cell, 2000, 5, 243-254.	4.5	665
49	Functional Genomics Identifies Monopolin. Cell, 2000, 103, 1155-1168.	13.5	286
50	A Central Role for Cohesins in Sister Chromatid Cohesion, Formation of Axial Elements, and Recombination during Yeast Meiosis. Cell, 1999, 98, 91-103.	13.5	702
51	Cohesins: Chromosomal Proteins that Prevent Premature Separation of Sister Chromatids. Cell, 1997, 91, 35-45.	13.5	1,391