

Hongtao Yu

List of Publications by Year in descending order

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96
papers

9,449
citations

36203

51
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45213

90
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112
all docs

112
docs citations

112
times ranked

9558
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncoding RNA NORAD Regulates Genomic Stability by Sequestering PUMILIO Proteins. <i>Cell</i> , 2016, 164, 69-80.	13.5	723
2	Human cohesin compacts DNA by loop extrusion. <i>Science</i> , 2019, 366, 1345-1349.	6.0	513
3	Direct Binding of CDC20 Protein Family Members Activates the Anaphase-Promoting Complex in Mitosis and G1. <i>Molecular Cell</i> , 1998, 2, 163-171.	4.5	466
4	Mad2-Independent Inhibition of APCCdc20 by the Mitotic Checkpoint Protein BubR1. <i>Developmental Cell</i> , 2001, 1, 227-237.	3.1	383
5	Regulation of APC/Cdc20 by the spindle checkpoint. <i>Current Opinion in Cell Biology</i> , 2002, 14, 706-714.	2.6	320
6	PP2A Is Required for Centromeric Localization of Sgo1 and Proper Chromosome Segregation. <i>Developmental Cell</i> , 2006, 10, 575-585.	3.1	320
7	Cdc20: A WD40 Activator for a Cell Cycle Degradation Machine. <i>Molecular Cell</i> , 2007, 27, 3-16.	4.5	313
8	The Mad2 Spindle Checkpoint Protein Undergoes Similar Major Conformational Changes Upon Binding to Either Mad1 or Cdc20. <i>Molecular Cell</i> , 2002, 9, 59-71.	4.5	290
9	The Mad2 spindle checkpoint protein has two distinct natively folded states. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 338-345.	3.6	263
10	Phosphorylation of Cdc20 by Bub1 Provides a Catalytic Mechanism for APC/C Inhibition by the Spindle Checkpoint. <i>Molecular Cell</i> , 2004, 16, 387-397.	4.5	257
11	Synergistic blockade of mitotic exit by two chemical inhibitors of the APC/C. <i>Nature</i> , 2014, 514, 646-649.	13.7	212
12	Mitotic transcription and waves of gene reactivation during mitotic exit. <i>Science</i> , 2017, 358, 119-122.	6.0	201
13	Structure of the Mad2 spindle assembly checkpoint protein and its interaction with Cdc20. <i>Nature Structural Biology</i> , 2000, 7, 224-229.	9.7	181
14	Conformation-specific binding of p31comet antagonizes the function of Mad2 in the spindle checkpoint. <i>EMBO Journal</i> , 2004, 23, 3133-3143.	3.5	177
15	Kinetochores attachment sensed by competitive Mps1 and microtubule binding to Ndc80C. <i>Science</i> , 2015, 348, 1260-1264.	6.0	175
16	p31comet Blocks Mad2 Activation through Structural Mimicry. <i>Cell</i> , 2007, 131, 744-755.	13.5	172
17	Cryo-EM structure of the human cohesin-NIPBL-DNA complex. <i>Science</i> , 2020, 368, 1454-1459.	6.0	171
18	Phosphorylation-enabled binding of SGO1/PP2A to cohesin protects sororin and centromeric cohesion during mitosis. <i>Nature Cell Biology</i> , 2013, 15, 40-49.	4.6	167

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19	Prolonged activation of innate immune pathways by a polyvalent STING agonist. <i>Nature Biomedical Engineering</i> , 2021, 5, 455-466.	11.6	157
20	Scc2 Is a Potent Activator of Cohesin's ATPase that Promotes Loading by Binding Scc1 without Pds5. <i>Molecular Cell</i> , 2018, 70, 1134-1148.e7.	4.5	141
21	Mitotic Transcription Installs Sgo1 at Centromeres to Coordinate Chromosome Segregation. <i>Molecular Cell</i> , 2015, 59, 426-436.	4.5	139
22	A sequential multi-target Mps1 phosphorylation cascade promotes spindle checkpoint signaling. <i>ELife</i> , 2017, 6, .	2.8	134
23	Protein Metamorphosis: The Two-State Behavior of Mad2. <i>Structure</i> , 2008, 16, 1616-1625.	1.6	133
24	Structure of cohesin subcomplex pinpoints direct shugoshin-Wapl antagonism in centromeric cohesion. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 864-870.	3.6	131
25	Tracking spindle checkpoint signals from kinetochores to APC/C. <i>Trends in Biochemical Sciences</i> , 2013, 38, 302-311.	3.7	124
26	Activation mechanism of the insulin receptor revealed by cryo-EM structure of the fully liganded receptor's ligand complex. <i>ELife</i> , 2019, 8, .	2.8	123
27	Phospho-H2A and Cohesin Specify Distinct Tension-Regulated Sgo1 Pools at Kinetochores and Inner Centromeres. <i>Current Biology</i> , 2013, 23, 1927-1933.	1.8	120
28	Structural insights into the TRIM family of ubiquitin E3 ligases. <i>Cell Research</i> , 2014, 24, 762-765.	5.7	118
29	Structural basis of the activation of type 1 insulin-like growth factor receptor. <i>Nature Communications</i> , 2019, 10, 4567.	5.8	117
30	Multiple assembly mechanisms anchor the KMN spindle checkpoint platform at human mitotic kinetochores. <i>Journal of Cell Biology</i> , 2015, 208, 181-196.	2.3	116
31	Structural Basis and IP6 Requirement for Pds5-Dependent Cohesin Dynamics. <i>Molecular Cell</i> , 2016, 62, 248-259.	4.5	106
32	Crystal structure of the cohesin loader Scc2 and insight into cohesinopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12444-12449.	3.3	104
33	The Smc complexes in DNA damage response. <i>Cell and Bioscience</i> , 2012, 2, 5.	2.1	102
34	The Bub1's Plk1 kinase complex promotes spindle checkpoint signalling through Cdc20 phosphorylation. <i>Nature Communications</i> , 2016, 7, 10818.	5.8	100
35	Structural activation of Mad2 in the mitotic spindle checkpoint: the two-state Mad2 model versus the Mad2 template model. <i>Journal of Cell Biology</i> , 2006, 173, 153-157.	2.3	97
36	Structure and Substrate Recruitment of the Human Spindle Checkpoint Kinase Bub1. <i>Molecular Cell</i> , 2008, 32, 394-405.	4.5	91

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37	Structure of human Mad1 C-terminal domain reveals its involvement in kinetochore targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6549-6554.	3.3	91
38	Mitotic Checkpoint Regulators Control Insulin Signaling and Metabolic Homeostasis. <i>Cell</i> , 2016, 166, 567-581.	13.5	89
39	Insights into Mad2 Regulation in the Spindle Checkpoint Revealed by the Crystal Structure of the Symmetric Mad2 Dimer. <i>PLoS Biology</i> , 2008, 6, e50.	2.6	86
40	Mutual regulation between the spindle checkpoint and APC/C. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 551-558.	2.3	79
41	Ska3 Phosphorylated by Cdk1 Binds Ndc80 and Recruits Ska to Kinetochores to Promote Mitotic Progression. <i>Current Biology</i> , 2017, 27, 1477-1484.e4.	1.8	78
42	Scc1 sumoylation by Mms21 promotes sister chromatid recombination through counteracting Wapl. <i>Genes and Development</i> , 2012, 26, 1473-1485.	2.7	72
43	The kinase activity of the Ser/Thr kinase BUB1 promotes TGF- β 2 signaling. <i>Science Signaling</i> , 2015, 8, ra1.	1.6	72
44	Mitotic regulators and the SHP2-MAPK pathway promote IR endocytosis and feedback regulation of insulin signaling. <i>Nature Communications</i> , 2019, 10, 1473.	5.8	71
45	Insulin receptor endocytosis in the pathophysiology of insulin resistance. <i>Experimental and Molecular Medicine</i> , 2020, 52, 911-920.	3.2	71
46	Structural basis of cohesin cleavage by separase. <i>Nature</i> , 2016, 532, 131-134.	13.7	67
47	PUMILIO hyperactivity drives premature aging of Norad-deficient mice. <i>ELife</i> , 2019, 8, .	2.8	65
48	The human SKA complex drives the metaphase-anaphase cell cycle transition by recruiting protein phosphatase 1 to kinetochores. <i>ELife</i> , 2016, 5, .	2.8	64
49	Structure of the human cohesin inhibitor Wapl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11355-11360.	3.3	62
50	Structure of guanine-nucleotide-exchange factor human Mss4 and identification of its Rab-interacting surface. <i>Nature</i> , 1995, 376, 788-791.	13.7	60
51	Structure of human GABAB receptor in an inactive state. <i>Nature</i> , 2020, 584, 304-309.	13.7	59
52	MCM2-7-dependent cohesin loading during S phase promotes sister-chromatid cohesion. <i>ELife</i> , 2018, 7, .	2.8	57
53	The Cdc20-binding Phe Box of the Spindle Checkpoint Protein BubR1 Maintains the Mitotic Checkpoint Complex During Mitosis. <i>Journal of Biological Chemistry</i> , 2015, 290, 2431-2443.	1.6	56
54	Familial STAG2 germline mutation defines a new human cohesinopathy. <i>Npj Genomic Medicine</i> , 2017, 2, 7.	1.7	56

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55	The BUB3-BUB1 Complex Promotes Telomere DNA Replication. <i>Molecular Cell</i> , 2018, 70, 395-407.e4.	4.5	54
56	Structural basis of tubulin detyrosination by vasohibins. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 583-591.	3.6	50
57	Defining pathways of spindle checkpoint silencing: functional redundancy between Cdc20 ubiquitination and p31 ^{comet} . <i>Molecular Biology of the Cell</i> , 2011, 22, 4227-4235.	0.9	47
58	Structural Insight into DNA-Dependent Activation of Human Metalloprotease Spartan. <i>Cell Reports</i> , 2019, 26, 3336-3346.e4.	2.9	42
59	Interaction of the Warsaw breakage syndrome DNA helicase DDX11 with the replication fork-protection factor Timeless promotes sister chromatid cohesion. <i>PLoS Genetics</i> , 2018, 14, e1007622.	1.5	40
60	Genome-wide si RNA screen reveals coupling between mitotic apoptosis and adaptation. <i>EMBO Journal</i> , 2014, 33, 1960-1976.	3.5	39
61	Mechanistic insight into TRIP13-catalyzed Mad2 structural transition and spindle checkpoint silencing. <i>Nature Communications</i> , 2017, 8, 1956.	5.8	38
62	The Transcription Factor TFII-I Promotes DNA Translesion Synthesis and Genomic Stability. <i>PLoS Genetics</i> , 2014, 10, e1004419.	1.5	37
63	Control of APC/C-dependent ubiquitin chain elongation by reversible phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1540-1545.	3.3	36
64	Structure of an intermediate conformer of the spindle checkpoint protein Mad2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11252-11257.	3.3	31
65	Substrate-Specific Activation of the Mitotic Kinase Bub1 through Intramolecular Autophosphorylation and Kinetochore Targeting. <i>Structure</i> , 2014, 22, 1616-1627.	1.6	29
66	Releasing the cohesin ring: A rigid scaffold model for opening the DNA exit gate by Pds5 and Wapl. <i>BioEssays</i> , 2017, 39, 1600207.	1.2	28
67	Functional Analysis of the Spindle-Checkpoint Proteins Using an In Vitro Ubiquitination Assay. , 2004, 281, 227-242.		27
68	Sumoylation promotes optimal APC/C activation and timely anaphase. <i>ELife</i> , 2018, 7, .	2.8	26
69	Regulation of sister chromatid cohesion during the mitotic cell cycle. <i>Science China Life Sciences</i> , 2015, 58, 1089-1098.	2.3	24
70	Cryo-EM structure of VASH1-SVBP bound to microtubules. <i>ELife</i> , 2020, 9, .	2.8	23
71	The chromatin remodeler RSF1 controls centromeric histone modifications to coordinate chromosome segregation. <i>Nature Communications</i> , 2018, 9, 3848.	5.8	20
72	Shaping of the 3D genome by the ATPase machine cohesin. <i>Experimental and Molecular Medicine</i> , 2020, 52, 1891-1897.	3.2	19

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73	TP53 promotes lineage commitment of human embryonic stem cells through ciliogenesis and sonic hedgehog signaling. <i>Cell Reports</i> , 2022, 38, 110395.	2.9	17
74	Chk1: A Double Agent in Cell Cycle Checkpoints. <i>Developmental Cell</i> , 2007, 12, 167-168.	3.1	13
75	Opposing Functions of the N-terminal Acetyltransferases Naa50 and NatA in Sister-chromatid Cohesion. <i>Journal of Biological Chemistry</i> , 2016, 291, 19079-19091.	1.6	12
76	Mps1 regulates spindle morphology through MCRC1 to promote chromosome alignment. <i>Molecular Biology of the Cell</i> , 2019, 30, 1060-1068.	0.9	11
77	Spindle Checkpoint Regulators in Insulin Signaling. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 161.	1.8	10
78	Cryo-EM structures of human p97 double hexamer capture potentiated ATPase-competent state. <i>Cell Discovery</i> , 2022, 8, 19.	3.1	10
79	Magic Acts with the Cohesin Ring. <i>Molecular Cell</i> , 2016, 61, 489-491.	4.5	9
80	A Protective Chaperone for the Kinetochore Adaptor Bub3. <i>Developmental Cell</i> , 2014, 28, 223-224.	3.1	6
81	Partner switching for Ran during the mitosis dance. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 89-90.	1.5	6
82	Cyclin A Turns on Bora to Light the Path to Mitosis. <i>Developmental Cell</i> , 2018, 45, 542-543.	3.1	4
83	A Method for SUMO Modification of Proteins in vitro. <i>Bio-protocol</i> , 2018, 8, .	0.2	4
84	Tango between Ubiquitin Ligase and Deubiquitinase Keeps Cyclin A Tag Free. <i>Molecular Cell</i> , 2011, 42, 409-410.	4.5	3
85	PP2A as a mercenary for warring kinases in the egg. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17245-17246.	3.3	2
86	Chromosome Biology: Wapl Spreads Its Wings. <i>Current Biology</i> , 2013, 23, R923-R925.	1.8	2
87	Biochemical and Functional Assays of Human Cohesin-Releasing Factor Wapl. <i>Methods in Molecular Biology</i> , 2017, 1515, 37-53.	0.4	2
88	The complexity of life and death decisions in mitosis. <i>Molecular and Cellular Oncology</i> , 2015, 2, e969658.	0.3	1
89	CENP-T bears the load in mitosis. <i>Nature Cell Biology</i> , 2018, 20, 1335-1337.	4.6	1
90	Molecular Mechanism of the Spindle Checkpoint. <i>FASEB Journal</i> , 2007, 21, A209.	0.2	1

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91	A mad partner for Shugoshin in meiosis. EMBO Journal, 2011, 30, 2759-2761.	3.5	0
92	The SMC5/6 Complex Maintains Telomere Length in ALT Cancer Cells through Sumoylation of Telomereâ€¢Binding Proteins. FASEB Journal, 2007, 21, A655.	0.2	0
93	Scc1 sumoylation by Mms21 promotes sister chromatid recombination through counteracting Wapl. FASEB Journal, 2012, 26, 539.5.	0.2	0
94	Structure of Human Mad1 Câ€¢terminal Domain Reveals Its Kinetochoreâ€¢Targeting Function. FASEB Journal, 2012, 26, 934.3.	0.2	0
95	NIP45 Promotes Telomere Targeting to PML Bodies in ALT Cells. FASEB Journal, 2012, 26, 933.6.	0.2	0
96	Functional redundancy between Cdc20 ubiquitination and p31 comet. FASEB Journal, 2012, 26, .	0.2	0