Jan M Skotheim

List of Publications by Year
in descending order

64 papers	7,823 citations	101543 36 h-index	114465 63 g-index
89 all docs	89 docs citations	89 times ranked	10213 citing authors

#	Article	IF	Citations
1	The cargo adapter protein CLINT1 is phosphorylated by the Numb-associated kinase BIKE and mediates dengue virus infection. Journal of Biological Chemistry, 2022, 298, 101956.	3.4	2
2	Whi5 is diluted and protein synthesis does not dramatically increase in pre-Start G1. Molecular Biology of the Cell, 2022, 33, lt1.	2.1	13
3	Eukaryotic Cell Size Control and Its Relation to Biosynthesis and Senescence. Annual Review of Cell and Developmental Biology, 2022, 38, 291-319.	9.4	44
4	The DNA-to-cytoplasm ratio broadly activates zygotic gene expression in Xenopus. Current Biology, 2021, 31, 4269-4281.e8.	3.9	12
5	G ₁ cyclinâ€“Cdk promotes cell cycle entry through localized phosphorylation of RNA polymerase II. Science, 2021, 374, 347-351.	12.6	36
6	Cell-size control: Chromatin-based titration primes inhibitor dilution. Current Biology, 2021, 31, R1127-R1129.	3.9	6
7	Transcriptional and chromatin-based partitioning mechanisms uncouple protein scaling from cell size. Molecular Cell, 2021, 81, 4861-4875.e7.	9.7	42
8	RB depletion is required for the continuous growth of tumors initiated by loss of RB. PLoS Genetics, 2021, 17, e1009941.	3.5	6
9	Cell growth dilutes the cell cycle inhibitor Rb to trigger cell division. Science, 2020, 369, 466-471.	12.6	95
10	Integrating Old and New Paradigms of G1/S Control. Molecular Cell, 2020, 80, 183-192.	9.7	140
11	PP2ACdc55 dephosphorylates Pds1 and inhibits spindle elongation. Journal of Cell Science, 2020, 133, .	2.0	4
12	On the Molecular Mechanisms Regulating Animal Cell Size Homeostasis. Trends in Genetics, 2020, 36, 360-372.	6.7	48
13	A G1 Sizer Coordinates Growth and Division in the Mouse Epidermis. Current Biology, 2020, 30, 916-924.e2.	3.9	56
14	Long-range single-molecule mapping of chromatin accessibility in eukaryotes. Nature Methods, 2020, 17, 319-327.	19.0	93
15	Constitutive expression of a fluorescent protein reports the size of live human cells. Molecular Biology of the Cell, 2019, 30, 2985-2995.	2.1	21
16	Reversible Disruption of Specific Transcription Factor-DNA Interactions Using CRISPR/Cas9. Molecular Cell, 2019, 74, 622-633.e4.	9.7	45
17	Cell cycle, cell division, cell death. Molecular Biology of the Cell, 2019, 30, 732-732.	2.1	1
18	Cyclin D-Cdk4,6 Drives Cell-Cycle Progression via the Retinoblastoma Proteinâ€™s C-Terminal Helix. Molecular Cell, 2019, 74, 758-770.e4.	9.7	162

#	Article	IF	Citations
19	Multiple Layers of Phospho-Regulation Coordinate Metabolism and the Cell Cycle in Budding Yeast. Frontiers in Cell and Developmental Biology, 2019, 7, 338.	3.7	22
20	A Precise Cdk Activity Threshold Determines Passage through the Restriction Point. Molecular Cell, 2018, 69, 253-264.e5.	9.7	84
21	Chromatin-associated RNA sequencing (ChAR-seq) maps genome-wide RNA-to-DNA contacts. ELife, 2018, 7, .	6.0	121
22	Spatial and temporal signal processing and decision making by MAPK pathways. Journal of Cell Biology, 2017, 216, 317-330.	5.2	89
23	Form and function of topologically associating genomic domains in budding yeast. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3061-E3070.	7.1	67
24	Zygotic Genome Activation in Vertebrates. Developmental Cell, 2017, 42, 316-332.	7.0	292
25	The Adder Phenomenon Emerges from Independent Control of Pre- and Post-Start Phases of the Budding Yeast Cell Cycle. Current Biology, 2017, 27, 2774-2783.e3.	3.9	82
26	The Yeast Cyclin-Dependent Kinase Routes Carbon Fluxes to Fuel Cell Cycle Progression. Molecular Cell, 2016, 62, 532-545.	9.7	100
27	Switch-like Transitions Insulate Network Motifs to Modularize Biological Networks. Cell Systems, 2016, 3, 121-132.	6.2	23
28	Dissecting direct reprogramming from fibroblast to neuron using single-cell RNA-seq. Nature, 2016, 534, 391-395.	27.8	413
29	Cell-Size Control. Cold Spring Harbor Perspectives in Biology, 2016, 8, a019083.	5.5	142
30	Punctuated evolution and transitional hybrid network in an ancestral cell cycle of fungi. ELife, 2016, 5, .	6.0	52
31	The Biosynthetic Basis of Cell Size Control. Trends in Cell Biology, 2015, 25, 793-802.	7.9	129
32	Mitosis is swell. Journal of Cell Biology, 2015, 211, 733-735.	5.2	0
33	A genetically encoded FÃ¶rster resonance energy transfer sensor for monitoring in vivo trehalose-6-phosphate dynamics. Analytical Biochemistry, 2015, 474, 1-7.	2.4	28
34	Compartmentalization of a Bistable Switch Enables Memory to Cross a Feedback-Driven Transition. Cell, 2015, 160, 1182-1195.	28.9	45
35	Histone titration against the genome sets the DNA-to-cytoplasm threshold for the Xenopus midblastula transition. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1086-95.	7.1	144
36	Dilution of the cell cycle inhibitor Whi5 controls budding-yeast cell size. Nature, 2015, 526, 268-272.	27.8	344

#	Article	IF	Citations
37	Modularity and predictability in cell signaling and decision making. Molecular Biology of the Cell, 2014, 25, 3445-3450.	2.1	21
38	Docking Interactions: Cell-Cycle Regulation and Beyond. Current Biology, 2014, 24, R647-R649.	3.9	4
39	Daughter-Specific Transcription Factors Regulate Cell Size Control in Budding Yeast. , 2014, , 1-39.		0
40	Nuclear Repulsion Enables Division Autonomy in a Single Cytoplasm. Current Biology, 2013, 23, 1999-2010.	3.9	57
41	Start and the restriction point. Current Opinion in Cell Biology, 2013, 25, 717-723.	5.4	114
42	Control of cell cycle transcription during G1 and S phases. Nature Reviews Molecular Cell Biology, 2013, 14, 518-528.	37.0	1,095
43	CONSTRAINTS ON THE ADULT-OFFSPRING SIZE RELATIONSHIP IN PROTISTS. Evolution; International Journal of Organic Evolution, 2013, 67, 3537-3544.	2.3	8
44	Feedforward Regulation Ensures Stability and Rapid Reversibility of a Cellular State. Molecular Cell, 2013, 50, 856-868.	9.7	55
45	A SHIFT IN THE LONG-TERM MODE OF FORAMINIFERAN SIZE EVOLUTION CAUSED BY THE END-PERMIAN MASS EXTINCTION. Evolution; International Journal of Organic Evolution, 2013, 67, 816-827.	2.3	17
46	An Algorithm to Automate Yeast Segmentation and Tracking. PLoS ONE, 2013, 8, e57970.	2.5	62
47	Cell Size Control in Yeast. Current Biology, 2012, 22, R350-R359.	3.9	277
48	LATE PALEOZOIC FUSULINOIDEAN GIGANTISM DRIVEN BY ATMOSPHERIC HYPEROXIA. Evolution; International Journal of Organic Evolution, 2012, 66, 2929-2939.	2.3	31
49	Commitment to a Cellular Transition Precedes Genome-wide Transcriptional Change. Molecular Cell, 2011, 43, 515-527.	9.7	78
50	Distinct Interactions Select and Maintain a Specific Cell Fate. Molecular Cell, 2011, 43, 528-539.	9.7	123
51	Evolution of networks and sequences in eukaryotic cell cycle control. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3532-3544.	4.0	121
52	Daughter-Specific Transcription Factors Regulate Cell Size Control in Budding Yeast. PLoS Biology, 2009, 7, e1000221.	5.6	102
53	To Divide or Not to Divide. Science, 2009, 324, 476-477.	12.6	0
54	Positive feedback of G1 cyclins ensures coherent cell cycle entry. Nature, 2008, 454, 291-296.	27.8	325

#	Article	IF	Citations
55	Settling and Swimming of Flexible Fluid-Lubricated Foils. Physical Review Letters, 2007, 99, 224503.	7.8	28
56	Red Blood Cells and Other Nonspherical Capsules in Shear Flow: Oscillatory Dynamics and the Tank-Treading-to-Tumbling Transition. Physical Review Letters, 2007, 98, 078301.	7.8	224
57	The effects of molecular noise and size control on variability in the budding yeast cell cycle. Nature, 2007, 448, 947-951.	27.8	440
58	How the Venus flytrap snaps. Nature, 2005, 433, 421-425.	27.8	879
59	Soft lubrication: The elastohydrodynamics of nonconforming and conforming contacts. Physics of Fluids, 2005, 17, 092101.	4.0	115
60	Gravitational Collapse of Colloidal Gels. Physical Review Letters, 2005, 94, 218302.	7.8	100
61	Physical Limits and Design Principles for Plant and Fungal Movements. Science, 2005, 308, 1308-1310.	12.6	278
62	Soft Lubrication. Physical Review Letters, 2004, 92, 245509.	7.8	98
63	Dynamics of poroelastic filaments. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2004, 460, 1995-2020.	2.1	31
64	On the instability of a falling film due to localized heating. Journal of Fluid Mechanics, 2003, 475, 1-19.	3.4	93