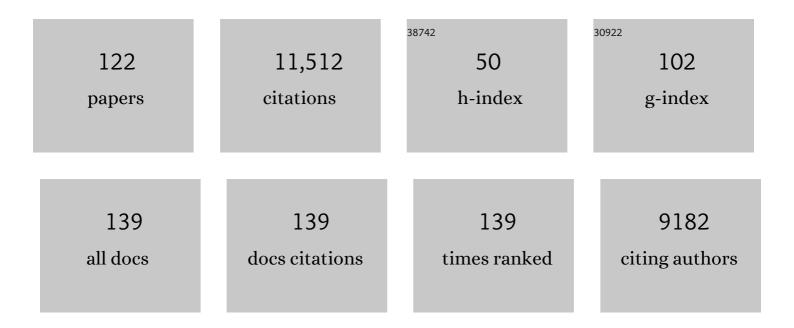
List of Publications by Year in descending order

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RELA NOVAK

#	Article	lF	CITATIONS
1	Mitotic kinase oscillation governs the latching of cell cycle switches. Current Biology, 2022, 32, 2780-2785.e2.	3.9	5
2	Time-keeping and decision-making inÂtheÂcell cycle. Interface Focus, 2022, 12, .	3.0	10
3	Mechanisms of signalling-memory governing progression through the eukaryotic cell cycle. Current Opinion in Cell Biology, 2021, 69, 7-16.	5.4	21
4	Computational modeling of chromosome re-replication in mutant strains of fission yeast. Molecular Biology of the Cell, 2021, 32, 830-841.	2.1	0
5	A Single Light-Responsive Sizer Can Control Multiple-Fission Cycles in Chlamydomonas. Current Biology, 2020, 30, 634-644.e7.	3.9	16
6	Cyclin A triggers Mitosis either via the Greatwall kinase pathway or Cyclin B. EMBO Journal, 2020, 39, e104419.	7.8	52
7	A Dynamical Paradigm for Molecular Cell Biology. Trends in Cell Biology, 2020, 30, 504-515.	7.9	53
8	CDK1-CCNB1 creates a spindle checkpoint–permissive state by enabling MPS1 kinetochore localization. Journal of Cell Biology, 2019, 218, 1182-1199.	5.2	45
9	Absolute quantification of cohesin, CTCF and their regulators in human cells. ELife, 2019, 8, .	6.0	79
10	Systems-level feedback regulation of cell cycle transitions in Ostreococcus tauri. Plant Physiology and Biochemistry, 2018, 126, 39-46.	5.8	2
11	A comprehensive model for the proliferation–quiescence decision in response to endogenous DNA damage in human cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2532-2537.	7.1	70
12	Genome stability during cell proliferation: A systems analysis of the molecular mechanisms controlling progression through the eukaryotic cell cycle. Current Opinion in Systems Biology, 2018, 9, 22-31.	2.6	13
13	Two Interlinked Bistable Switches Govern Mitotic Control in Mammalian Cells. Current Biology, 2018, 28, 3824-3832.e6.	3.9	62
14	Dilution and titration of cell-cycle regulators may control cell size in budding yeast. PLoS Computational Biology, 2018, 14, e1006548.	3.2	45
15	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
16	DNA damage during S-phase mediates the proliferation-quiescence decision in the subsequent G1 via p21 expression. Nature Communications, 2017, 8, 14728.	12.8	284
17	Cell-cycle transitions: a common role for stoichiometric inhibitors. Molecular Biology of the Cell, 2017, 28, 3437-3446.	2.1	16
18	Interlinked bistable mechanisms generate robust mitotic transitions. Cell Cycle, 2017, 16, 1885-1892.	2.6	23

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19	A Dynamical Framework for the All-or-None G1/S Transition. Cell Systems, 2016, 2, 27-37.	6.2	115
20	A PP2A-B55 recognition signal controls substrate dephosphorylation kinetics during mitotic exit. Journal of Cell Biology, 2016, 214, 539-554.	5.2	164
21	Two Bistable Switches Govern M Phase Entry. Current Biology, 2016, 26, 3361-3367.	3.9	72
22	Nutritional Control of Cell Size by the Greatwall-Endosulfine-PP2A·B55 Pathway. Current Biology, 2016, 26, 319-330.	3.9	87
23	Bistability, Oscillations, and Traveling Waves in Frog Egg Extracts. Bulletin of Mathematical Biology, 2015, 77, 796-816.	1.9	7
24	Cell Cycle Control by a Minimal Cdk Network. PLoS Computational Biology, 2015, 11, e1004056.	3.2	49
25	Model scenarios for switchâ€ŀike mitotic transitions. FEBS Letters, 2015, 589, 667-671.	2.8	21
26	Kinetochore–microtubule error correction is driven by differentially regulated interaction modes. Nature Cell Biology, 2015, 17, 421-433.	10.3	63
27	Human Chromosome Segregation Involves Multi-Layered Regulation of Separase by the Peptidyl-Prolyl-Isomerase Pin1. Molecular Cell, 2015, 58, 495-506.	9.7	49
28	Premature Sister Chromatid Separation Is Poorly Detected by the Spindle Assembly Checkpoint as a Result of System-Level Feedback. Cell Reports, 2015, 13, 469-478.	6.4	21
29	Models in biology: lessons from modeling regulation of the eukaryotic cell cycle. BMC Biology, 2015, 13, 46.	3.8	61
30	A Model for the Epigenetic Switch Linking Inflammation to Cell Transformation: Deterministic and Stochastic Approaches. PLoS Computational Biology, 2014, 10, e1003455.	3.2	17
31	PP2A/B55 and Fcp1 Regulate Greatwall and Ensa Dephosphorylation during Mitotic Exit. PLoS Genetics, 2014, 10, e1004004.	3.5	55
32	Control of cell growth, division and death: information processing in living cells. Interface Focus, 2014, 4, 20130070.	3.0	31
33	Dependency of the Spindle Assembly Checkpoint on Cdk1 Renders the Anaphase Transition Irreversible. Current Biology, 2014, 24, 630-637.	3.9	63
34	Dynamical Scenarios for Chromosome Bi-orientation. Biophysical Journal, 2013, 104, 2595-2606.	0.5	15
35	Minimal Models for Cell-Cycle Control Based on Competitive Inhibition andÂMultisite Phosphorylations of Cdk Substrates. Biophysical Journal, 2013, 104, 1367-1379.	0.5	13
36	The BEG (PP2A-B55/ENSA/Greatwall) Pathway Ensures Cytokinesis follows Chromosome Separation. Molecular Cell, 2013, 52, 393-405.	9.7	136

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37	Role for regulated phosphatase activity in generating mitotic oscillations in <i>Xenopus</i> cell-free extracts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20539-20544.	7.1	7
38	The role of APC/C inhibitor Emi2/XErp1 in oscillatory dynamics of early embryonic cell cycles. Biophysical Chemistry, 2013, 177-178, 1-6.	2.8	16
39	Irreversible Transitions, Bistability and Checkpoint Controls in the Eukaryotic Cell Cycle. , 2013, , 265-285.		13
40	Molecular mechanisms creating bistable switches at cell cycle transitions. Open Biology, 2013, 3, 120179.	3.6	62
41	Robust mitotic entry is ensured by a latching switch. Biology Open, 2013, 2, 924-931.	1.2	17
42	Pom1 is not the size ruler. Cell Cycle, 2013, 12, 3463-3464.	2.6	1
43	microRNA as a Potential Vector for the Propagation of Robustness in Protein Expression and Oscillatory Dynamics within a ceRNA Network. PLoS ONE, 2013, 8, e83372.	2.5	15
44	Cell Cycle Dynamics, Bistability and Oscillations. , 2013, , 263-270.		1
45	CDK-Dependent Nuclear Localization of B-Cyclin Clb1 Promotes FEAR Activation during Meiosis I in Budding Yeast. PLoS ONE, 2013, 8, e79001.	2.5	9
46	Cell Cycle Transitions, Mitotic Exit. , 2013, , 333-336.		0
47	Cell Cycle Dynamics, Irreversibility. , 2013, , 270-273.		0
48	Cell Cycle, Budding Yeast. , 2013, , 337-341.		2
49	A Structural Systems Biology Approach for Quantifying the Systemic Consequences of Missense Mutations in Proteins. PLoS Computational Biology, 2012, 8, e1002738.	3.2	19
50	A General G1/S-Phase Cell-Cycle Control Module in the Flowering Plant Arabidopsis thaliana. PLoS Genetics, 2012, 8, e1002847.	3.5	103
51	Multisite phosphoregulation of Cdc25 activity refines the mitotic entrance and exit switches. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9899-9904.	7.1	19
52	Meiotic Prophase Requires Proteolysis of M Phase Regulators Mediated by the Meiosis-Specific APC/CAma1. Cell, 2012, 151, 603-618.	28.9	93
53	Interplay of transcriptional and proteolytic regulation in driving robust cell cycle progression. Molecular BioSystems, 2012, 8, 863.	2.9	5
54	Phosphorylation network dynamics in the control of cell cycle transitions. Journal of Cell Science, 2012, 125, 4703-4711.	2.0	138

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55	Mathematical Model for Growth Regulation of Fission Yeast Schizosaccharomyces pombe. PLoS ONE, 2012, 7, e49675.	2.5	6
56	Spatiotemporal dynamics of Spc105 regulates the assembly of the Drosophila kinetochore. Open Biology, 2012, 2, 110032.	3.6	47
57	Protein Phosphatase 2A Controls the Order and Dynamics of Cell-Cycle Transitions. Molecular Cell, 2011, 44, 437-450.	9.7	47
58	Overexpression limits of fission yeast cellâ€cycle regulators <i>in vivo</i> and <i>in silico</i> . Molecular Systems Biology, 2011, 7, 556.	7.2	14
59	Cell cycle commitment in budding yeast emerges from the cooperation of multiple bistable switches. Open Biology, 2011, 1, 110009.	3.6	14
60	Cell Cycle: Who Turns the Crank?. Current Biology, 2011, 21, R185-R187.	3.9	9
61	The cell cycle. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3494-3497.	4.0	47
62	Computational modelling of mitotic exit in budding yeast: the role of separase and Cdc14 endocycles. Journal of the Royal Society Interface, 2011, 8, 1128-1141.	3.4	24
63	Switches and latches: a biochemical tug-of-war between the kinases and phosphatases that control mitosis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3584-3594.	4.0	95
64	System-level feedbacks make the anaphase switch irreversible. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10016-10021.	7.1	55
65	Systems-level feedback in cell-cycle control. Biochemical Society Transactions, 2010, 38, 1242-1246.	3.4	12
66	Hypoxia-dependent sequestration of an oxygen sensor by a widespread structural motif can shape the hypoxic response - a predictive kinetic model. BMC Systems Biology, 2010, 4, 139.	3.0	44
67	Regulated protein kinases and phosphatases in cell cycle decisions. Current Opinion in Cell Biology, 2010, 22, 801-808.	5.4	54
68	Restriction point control of the mammalian cell cycle via the cyclin E/Cdk2:p27 complex. FEBS Journal, 2010, 277, 357-367.	4.7	44
69	The regulatory network of cell-cycle progression is fundamentally different in plants versus yeast or metazoans. Plant Signaling and Behavior, 2010, 5, 1613-1618.	2.4	24
70	CULLIN 4-RING FINGER-LIGASE plays a key role in the control of endoreplication cycles in Arabidopsis trichomes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15275-15280.	7.1	44
71	Different effects of redundant feedback loops on a bistable switch. Chaos, 2010, 20, 045120.	2.5	17
72	A model of yeast cell ycle regulation based on multisite phosphorylation. Molecular Systems Biology, 2010. 6. 405.	7.2	97

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73	Functional Motifs in Biochemical Reaction Networks. Annual Review of Physical Chemistry, 2010, 61, 219-240.	10.8	257
74	Cell cycle regulation by feedâ€forward loops coupling transcription and phosphorylation. Molecular Systems Biology, 2009, 5, 236.	7.2	44
75	Mitotic exit in mammalian cells. Molecular Systems Biology, 2009, 5, 324.	7.2	15
76	The Influence of Catalysis on Mad2 Activation Dynamics. PLoS Biology, 2009, 7, e1000010.	5.6	97
77	Control of Cell Proliferation, Organ Growth, and DNA Damage Response Operate Independently of Dephosphorylation of the <i>Arabidopsis</i> Cdk1 Homolog CDKA;1 Â. Plant Cell, 2009, 21, 3641-3654.	6.6	106
78	Bistability by multiple phosphorylation of regulatory proteins. Progress in Biophysics and Molecular Biology, 2009, 100, 47-56.	2.9	74
79	Regulation of APC/C Activity in Oocytes by a Bub1-Dependent Spindle Assembly Checkpoint. Current Biology, 2009, 19, 369-380.	3.9	194
80	Systemâ€level feedbacks control cell cycle progression. FEBS Letters, 2009, 583, 3992-3998.	2.8	38
81	Irreversibility of mitotic exit is the consequence of systems-level feedback. Nature, 2009, 459, 592-595.	27.8	91
82	Spatial controls for growth zone formation during the fission yeast cell cycle. Yeast, 2008, 25, 59-69.	1.7	31
83	Analysis of a budding yeast cell cycle model using the shapes of local sensitivity functions. International Journal of Chemical Kinetics, 2008, 40, 710-720.	1.6	17
84	Antagonism and bistability in protein interaction networks. Journal of Theoretical Biology, 2008, 250, 209-218.	1.7	66
85	Design principles of biochemical oscillators. Nature Reviews Molecular Cell Biology, 2008, 9, 981-991.	37.0	970
86	Temporal Organization of the Cell Cycle. Current Biology, 2008, 18, R759-R768.	3.9	165
87	Reverse Engineering Models of Cell Cycle Regulation. Advances in Experimental Medicine and Biology, 2008, 641, 88-97.	1.6	15
88	Microtubules offset growth site from the cell centre in fission yeast. Journal of Cell Science, 2007, 120, 2205-2213.	2.0	27
89	Dynamical modeling of syncytial mitotic cycles in <i>Drosophila</i> embryos. Molecular Systems Biology, 2007, 3, 131.	7.2	41
90	Mitotic exit in two dimensions. Journal of Theoretical Biology, 2007, 248, 560-573.	1.7	21

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91	Irreversible cell-cycle transitions are due to systems-level feedback. Nature Cell Biology, 2007, 9, 724-728.	10.3	178
92	Modeling the septation initiation network (SIN) in fission yeast cells. Current Genetics, 2007, 51, 245-255.	1.7	27
93	Analysis of a Generic Model of Eukaryotic Cell-Cycle Regulation. Biophysical Journal, 2006, 90, 4361-4379.	0.5	226
94	Downregulation of PP2ACdc55 Phosphatase by Separase Initiates Mitotic Exit in Budding Yeast. Cell, 2006, 125, 719-732.	28.9	230
95	Time scale and dimension analysis of a budding yeast cell cycle model. BMC Bioinformatics, 2006, 7, 494.	2.6	34
96	Steady States and Oscillations in the p53/Mdm2 Network. Cell Cycle, 2005, 4, 488-493.	2.6	221
97	Rewiring the Exit from Mitosis. Cell Cycle, 2005, 4, 4107-4112.	2.6	17
98	Rewiring the exit from mitosis. Cell Cycle, 2005, 4, 1107-12.	2.6	8
99	Modelling the fission yeast cell cycle. Briefings in Functional Genomics & Proteomics, 2004, 2, 298-307.	3.8	36
100	Integrative Analysis of Cell Cycle Control in Budding Yeast. Molecular Biology of the Cell, 2004, 15, 3841-3862.	2.1	584
101	A model for restriction point control of the mammalian cell cycle. Journal of Theoretical Biology, 2004, 230, 563-579.	1.7	272
102	Sniffers, buzzers, toggles and blinkers: dynamics of regulatory and signaling pathways in the cell. Current Opinion in Cell Biology, 2003, 15, 221-231.	5.4	1,423
103	Mathematical model of the morphogenesis checkpoint in budding yeast. Journal of Cell Biology, 2003, 163, 1243-1254.	5.2	78
104	Modelling the controls of the eukaryotic cell cycle. Biochemical Society Transactions, 2003, 31, 1526-1529.	3.4	65
105	The dynamics of cell cycle regulation. BioEssays, 2002, 24, 1095-1109.	2.5	277
106	Morphogenetic checkpoint in fission yeast? Yes!. Microbiology (United Kingdom), 2002, 148, 2270-2271.	1.8	2
107	Mathematical model of the cell division cycle of fission yeast. Chaos, 2001, 11, 277.	2.5	144
108	A stochastic, molecular model of the fission yeast cell cycle: role of the nucleocytoplasmic ratio in cycle time regulation. Biophysical Chemistry, 2001, 92, 1-15.	2.8	56

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109	Regulation of the Eukaryotic Cell Cycle: Molecular Antagonism, Hysteresis, and Irreversible Transitions. Journal of Theoretical Biology, 2001, 210, 249-263.	1.7	328
110	Network dynamics and cell physiology. Nature Reviews Molecular Cell Biology, 2001, 2, 908-916.	37.0	481
111	Kinetic Analysis of a Molecular Model of the Budding Yeast Cell Cycle. Molecular Biology of the Cell, 2000, 11, 369-391.	2.1	437
112	Modeling the fission yeast cell cycle: Quantized cycle times in wee1- cdc25Delta mutant cells. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7865-7870.	7.1	117
113	Finishing the Cell Cycle. Journal of Theoretical Biology, 1999, 199, 223-233.	1.7	50
114	A Simple Model of Circadian Rhythms Based on Dimerization and Proteolysis of PER and TIM. Biophysical Journal, 1999, 77, 2411-2417.	0.5	168
115	Modeling M-phase control in Xenopus oocyte extracts: the surveillance mechanism for unreplicated DNA. Biophysical Chemistry, 1998, 72, 169-184.	2.8	57
116	Mathematical model of the fission yeast cell cycle with checkpoint controls at the G1/S, G2/M and metaphase/anaphase transitions. Biophysical Chemistry, 1998, 72, 185-200.	2.8	121
117	Modeling the control of DNA replication in fission yeast. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 9147-9152.	7.1	165
118	Chemical kinetic theory: understanding cell-cycle regulation. Trends in Biochemical Sciences, 1996, 21, 89-96.	7.5	92
119	Quantitative analysis of a molecular model of mitotic control in fission yeast. Journal of Theoretical Biology, 1995, 173, 283-305.	1.7	93
120	Checkpoints in the cell cycle from a modeler $\hat{a} \in \mathbb{M}$ s perspective. , 1995, 1, 1-8.		29
121	Modeling the Cell Division Cycle: M-phase Trigger, Oscillations, and Size Control. Journal of Theoretical Biology, 1993, 165, 101-134.	1.7	142
122	Systems biology of the yeast cell cycle engine. , 0, , 305-324.		4