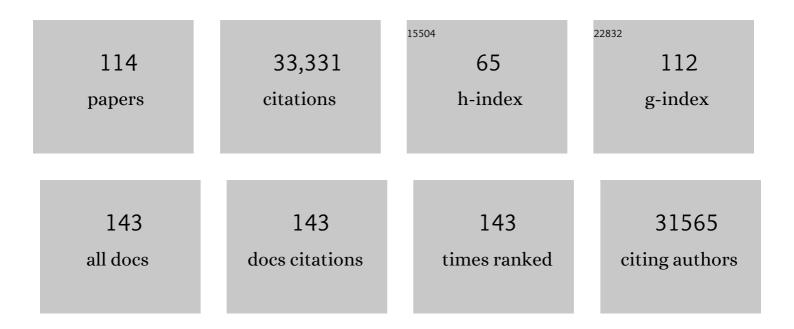
Marc W Kirschner

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Phylogenomic analyses of the genus <i>Drosophila</i> reveals genomic signals of climate adaptation. Molecular Ecology Resources, 2022, 22, 1559-1581.	4.8	15
2	Lack of age-related respiratory changes in Daphnia. Biogerontology, 2022, 23, 85-97.	3.9	4
3	The nonredundant nature of the Axin2 regulatory network in the canonical Wnt signaling pathway. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8
4	Intelligent highâ€ŧhroughput intervention testing platform in <i>Daphnia</i> . Aging Cell, 2022, 21, e13571.	6.7	9
5	Protein and lipid mass concentration measurement in tissues by stimulated Raman scattering microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117938119.	7.1	46
6	Noncanonical open reading frames encode functional proteins essential for cancer cell survival. Nature Biotechnology, 2021, 39, 697-704.	17.5	85
7	Genome-wide Screening Identifies SFMBT1 as an Oncogenic Driver in Cancer with VHL Loss. Molecular Cell, 2020, 77, 1294-1306.e5.	9.7	41
8	What makes the cell cycle tick? a celebration of the awesome power of biochemistry and the frog egg. Molecular Biology of the Cell, 2020, 31, 2874-2878.	2.1	0
9	Computationally enhanced quantitative phase microscopy reveals autonomous oscillations in mammalian cell growth. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27388-27399.	7.1	32
10	Single-molecule dynamics of Dishevelled at the plasma membrane and Wnt pathway activation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16690-16701.	7.1	42
11	A cell type annotation Jamboree—Revival of а communal science forum. Genesis, 2020, 58, e23383.	1.6	3
12	YAP regulates cell size and growth dynamics via non-cell autonomous mediators. ELife, 2020, 9, .	6.0	28
13	TBIO-26. NON-CANONICAL OPEN READING FRAMES ENCODE FUNCTIONAL PROTEINS ESSENTIAL FOR CANCER CELL SURVIVAL. Neuro-Oncology, 2020, 22, iii471-iii471.	1.2	0
14	Quantitative Proteomics Reveals Remodeling of Protein Repertoire Across Life Phases of <i>Daphnia pulex</i> . Proteomics, 2019, 19, e1900155.	2.2	2
15	The genome of the giant Nomura's jellyfish sheds light on the early evolution of active predation. BMC Biology, 2019, 17, 28.	3.8	38
16	The dynamics of gene expression in vertebrate embryogenesis at single-cell resolution. Science, 2018, 360, .	12.6	471
17	Size uniformity of animal cells is actively maintained by a p38 MAPK-dependent regulation of G1-length. ELife, 2018, 7, .	6.0	61
18	Cell size sensing in animal cells coordinates anabolic growth rates and cell cycle progression to maintain cell size uniformity. ELife, 2018, 7, .	6.0	93

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19	VHL substrate transcription factor ZHX2 as an oncogenic driver in clear cell renal cell carcinoma. Science, 2018, 361, 290-295.	12.6	134
20	Anteroposterior axis patterning by early canonical Wnt signaling during hemichordate development. PLoS Biology, 2018, 16, e2003698.	5.6	60
21	The APC/C E3 Ligase Complex Activator FZR1 Restricts BRAF Oncogenic Function. Cancer Discovery, 2017, 7, 424-441.	9.4	57
22	Hippo pathway mediates resistance to cytotoxic drugs. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3729-E3738.	7.1	57
23	Proteomic and Metabolomic Characterization of a Mammalian Cellular Transition from Quiescence to Proliferation. Cell Reports, 2017, 20, 721-736.	6.4	41
24	Conformational Landscape of the p28-Bound Human Proteasome Regulatory Particle. Molecular Cell, 2017, 67, 322-333.e6.	9.7	35
25	Proteomics of phosphorylation and protein dynamics during fertilization and meiotic exit in the <i>Xenopus</i> egg. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10838-E10847.	7.1	43
26	Mouse embryonic stem cells can differentiate via multiple paths to the same state. ELife, 2017, 6, .	6.0	63
27	Kinesin superfamily protein Kif26b links Wnt5a-Ror signaling to the control of cell and tissue behaviors in vertebrates. ELife, 2017, 6, .	6.0	33
28	Preprints for the life sciences. Science, 2016, 352, 899-901.	12.6	119
29	The Gonium pectorale genome demonstrates co-option of cell cycle regulation during the evolution of multicellularity. Nature Communications, 2016, 7, 11370.	12.8	125
30	Structural basis for dynamic regulation of the human 26S proteasome. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12991-12996.	7.1	147
31	Dual RING E3 Architectures Regulate Multiubiquitination and Ubiquitin Chain Elongation by APC/C. Cell, 2016, 165, 1440-1453.	28.9	126
32	Droplet Barcoding for Single-Cell Transcriptomics Applied to Embryonic Stem Cells. Cell, 2015, 161, 1187-1201.	28.9	2,857
33	Addressing systemic problems in the biomedical research enterprise. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1912-1913.	7.1	50
34	On being the right (cell) size. Science, 2015, 348, 1245075.	12.6	325
35	Specificity of the anaphase-promoting complex: A single-molecule study. Science, 2015, 348, 1248737.	12.6	69
36	Substrate degradation by the proteasome: A single-molecule kinetic analysis. Science, 2015, 348, 1250834.	12.6	188

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37	The Nuclear Proteome of a Vertebrate. Current Biology, 2015, 25, 2663-2671.	3.9	117
38	Resonant microchannel volume and mass measurements show that suspended cells swell during mitosis. Journal of Cell Biology, 2015, 211, 757-763.	5.2	123
39	On the Relationship of Protein and mRNA Dynamics in Vertebrate Embryonic Development. Developmental Cell, 2015, 35, 383-394.	7.0	182
40	Hemichordate genomes and deuterostome origins. Nature, 2015, 527, 459-465.	27.8	217
41	Postâ€īranslational Modification Profiling—a Highâ€Content Assay for Identifying Protein Modifications in Mammalian Cellular Systems. Current Protocols in Protein Science, 2014, 77, 27.8.1-27.8.13.	2.8	3
42	Exploiting polypharmacology for drug target deconvolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5048-5053.	7.1	95
43	Cell-cycle-regulated activation of Akt kinase by phosphorylation at its carboxyl terminus. Nature, 2014, 508, 541-545.	27.8	285
44	A Noncanonical Frizzled2 Pathway Regulates Epithelial-Mesenchymal Transition and Metastasis. Cell, 2014, 159, 844-856.	28.9	296
45	Quantitative Lys-ïµ-Gly-Gly (diGly) Proteomics Coupled with Inducible RNAi Reveals Ubiquitin-mediated Proteolysis of DNA Damage-inducible Transcript 4 (DDIT4) by the E3 Ligase HUWE1. Journal of Biological Chemistry, 2014, 289, 28942-28955.	3.4	57
46	A nontranscriptional role for Oct4 in the regulation of mitotic entry. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15768-15773.	7.1	35
47	Deep Proteomics of the Xenopus laevis Egg using an mRNA-Derived Reference Database. Current Biology, 2014, 24, 1467-1475.	3.9	234
48	Molecular ties between the cell cycle and differentiation in embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9503-9508.	7.1	67
49	APCCdc20 Suppresses Apoptosis through Targeting Bim for Ubiquitination and Destruction. Developmental Cell, 2014, 29, 377-391.	7.0	110
50	The master cell cycle regulator APC-Cdc20 regulates ciliary length and disassembly of the primary cilium. ELife, 2014, 3, e03083.	6.0	71
51	Multiple phases of chondrocyte enlargement underlie differences in skeletal proportions. Nature, 2013, 495, 375-378.	27.8	318
52	Dynamics extracted from fixed cells reveal feedback linking cell growth to cell cycle. Nature, 2013, 494, 480-483.	27.8	275
53	Phosphoinositides and membrane curvature switch the mode of actin polymerization via selective recruitment of toca-1 and Snx9. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7193-7198.	7.1	56
54	Emi1 preferentially inhibits ubiquitin chain elongation by the anaphase-promoting complex. Nature Cell Biology, 2013, 15, 797-806.	10.3	64

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55	Size homeostasis in adherent cells studied by synthetic phase microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16687-16692.	7.1	92
56	Kinetic Responses of \hat{I}^2 -Catenin Specify the Sites of Wnt Control. Science, 2012, 338, 1337-1340.	12.6	126
57	Accurate Multiplexed Proteomics at the MS2 Level Using the Complement Reporter Ion Cluster. Analytical Chemistry, 2012, 84, 9214-9221.	6.5	138
58	Gap 1 phase length and mouse embryonic stem cell self-renewal. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12550-12555.	7.1	69
59	Direct observation of mammalian cell growth and size regulation. Nature Methods, 2012, 9, 910-912.	19.0	197
60	Metabolite Profiling Identifies a Key Role for Glycine in Rapid Cancer Cell Proliferation. Science, 2012, 336, 1040-1044.	12.6	1,201
61	Optimizing Optical Flow Cytometry for Cell Volume-Based Sorting and Analysis. PLoS ONE, 2011, 6, e16053.	2.5	164
62	Mapping Gene Expression in Two Xenopus Species: Evolutionary Constraints and Developmental Flexibility. Developmental Cell, 2011, 20, 483-496.	7.0	187
63	Protein microarrays for genome-wide posttranslational modification analysis. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2011, 3, 347-356.	6.6	23
64	Cell cycle-regulated multi-site phosphorylation of Neurogenin 2 coordinates cell cycling with differentiation during neurogenesis. Development (Cambridge), 2011, 138, 4267-4277.	2.5	151
65	Remodeling of the Metabolome during Early Frog Development. PLoS ONE, 2011, 6, e16881.	2.5	59
66	Using buoyant mass to measure the growth of single cells. Nature Methods, 2010, 7, 387-390.	19.0	338
67	UBE2S drives elongation of K11-linked ubiquitin chains by the Anaphase-Promoting Complex. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1355-1360.	7.1	204
68	Cell Biology as a World View. Molecular Biology of the Cell, 2010, 21, 3803-3803.	2.1	1
69	Self-Assembly of Filopodia-Like Structures on Supported Lipid Bilayers. Science, 2010, 329, 1341-1345.	12.6	153
70	Large-scale detection of ubiquitination substrates using cell extracts and protein microarrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2543-2548.	7.1	87
71	The mechanism and pattern of yolk consumption provide insight into embryonic nutrition in <i>Xenopus</i> . Development (Cambridge), 2009, 136, 1539-1548.	2.5	64
72	Cell Growth and Size Homeostasis in Proliferating Animal Cells. Science, 2009, 325, 167-171.	12.6	370

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73	Bruce Alberts, <i>Science</i> 's New Editor. Science, 2008, 319, 1199-1199.	12.6	Ο
74	An Actin-Based Wave Generator Organizes Cell Motility. PLoS Biology, 2007, 5, e221.	5.6	371
75	The Processivity of Multiubiquitination by the APC Determines the Order of Substrate Degradation. Cell, 2006, 124, 89-103.	28.9	256
76	Hem-1 Complexes Are Essential for Rac Activation, Actin Polymerization, and Myosin Regulation during Neutrophil Chemotaxis. PLoS Biology, 2006, 4, e38.	5.6	154
77	Domain structure of separase and its binding to securin as determined by EM. Nature Structural and Molecular Biology, 2005, 12, 552-553.	8.2	50
78	Identification of Ubiquitin Ligase Substrates by In Vitro Expression Cloning. Methods in Enzymology, 2005, 399, 404-414.	1.0	23
79	Stable isotope-free relative and absolute quantitation of protein phosphorylation stoichiometry by MS. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3948-3953.	7.1	202
80	The Meaning of Systems Biology. Cell, 2005, 121, 503-504.	28.9	300
81	Toca-1 Mediates Cdc42-Dependent Actin Nucleation by Activating the N-WASP-WIP Complex. Cell, 2004, 118, 203-216.	28.9	394
82	The Roles of APC and Axin Derived from Experimental and Theoretical Analysis of the Wnt Pathway. PLoS Biology, 2003, 1, e10.	5.6	556
83	Anaphase specific auto-cleavage of separase. FEBS Letters, 2002, 528, 246-250.	2.8	49
84	Corrigendum to: Anaphase specific auto-cleavage of separase (FEBS 26464). FEBS Letters, 2002, 531, 381-381.	2.8	1
85	Dual Inhibition of Sister Chromatid Separation at Metaphase. Cell, 2001, 107, 715-726.	28.9	417
86	Physiological regulation of β-catenin stability by Tcf3 and CK1ϵ. Journal of Cell Biology, 2001, 154, 983-994.	5.2	142
87	Structure of the Mad2 spindle assembly checkpoint protein and its interaction with Cdc20. Nature Structural Biology, 2000, 7, 224-229.	9.7	181
88	Mechanism of N-Wasp Activation by Cdc42 and Phosphatidylinositol 4,5-Bisphosphate. Journal of Cell Biology, 2000, 150, 1299-1310.	5.2	546
89	The KEN box: an APC recognition signal distinct from the D box targeted by Cdh1. Genes and Development, 2000, 14, 655-665.	5.9	601
90	Quantitative measurement of the catastrophe rate of dynamic microtubules. Cytoskeleton, 1999, 43, 43-51.	4.4	10

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91	Identification of a Vertebrate Sister-Chromatid Separation Inhibitor Involved in Transformation and Tumorigenesis. Science, 1999, 285, 418-422.	12.6	761
92	E-Publication Proposal. Science, 1999, 285, 1013-1013.	12.6	0
93	Direct Binding of CDC20 Protein Family Members Activates the Anaphase-Promoting Complex in Mitosis and G1. Molecular Cell, 1998, 2, 163-171.	9.7	466
94	Geminin, an Inhibitor of DNA Replication, Is Degraded during Mitosis. Cell, 1998, 93, 1043-1053.	28.9	825
95	Identification of a Cullin Homology Region in a Subunit of the Anaphase-Promoting Complex. Science, 1998, 279, 1219-1222.	12.6	234
96	FUNCTIONAL GENOMICS: Expression Cloning in the Test Tube. Science, 1997, 277, 973-974.	12.6	44
97	Proteolysis and DNA Replication: The CDC34 Requirement in the Xenopus Egg Cell Cycle. Science, 1997, 277, 1672-1676.	12.6	66
98	The surface contraction waves of Xenopus eggs reflect the metachronous cell-cycle state of the cytoplasm. Current Biology, 1997, 7, 451-454.	3.9	57
99	In Memory of Harold Weintraub. Molecular Biology of the Cell, 1995, 6, 757-758.	2.1	0
100	Separate domains of p21 involved in the inhibition of Cdk kinase and PCNA. Nature, 1995, 374, 386-388.	27.8	545
101	A 20s complex containing CDC27 and CDC16 catalyzes the mitosis-specific conjugation of ubiquitin to cyclin B. Cell, 1995, 81, 279-288.	28.9	932
102	Cyclin is degraded by the ubiquitin pathway. Nature, 1991, 349, 132-138.	27.8	2,321
103	Cyclin synthesis drives the early embryonic cell cycle. Nature, 1989, 339, 275-280.	27.8	1,236
104	The role of cyclin synthesis and degradation in the control of maturation promoting factor activity. Nature, 1989, 339, 280-286.	27.8	1,141
105	New features of microtubule behaviour observed in vivo. Nature, 1988, 334, 356-359.	27.8	197
106	Polewards chromosome movement driven by microtubule depolymerization in vitro. Nature, 1988, 331, 499-504.	27.8	403
107	Phosphorylation changes associated with the early cell cycle in Xenopus eggs. Developmental Biology, 1987, 119, 442-453.	2.0	123
108	Sites of microtubule assembly and disassembly in the mitotic spindle. Cell, 1986, 45, 515-527.	28.9	406

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109	Homologies in both primary and secondary structure between nuclear envelope and intermediate filament proteins. Nature, 1986, 319, 463-468.	27.8	836
110	Microtubule assembly nucleated by isolated centrosomes. Nature, 1984, 312, 232-237.	27.8	772
111	Dynamic instability of microtubule growth. Nature, 1984, 312, 237-242.	27.8	2,950
112	Temporal and spatial regulation of fibronectin in early Xenopus development. Cell, 1984, 36, 729-740.	28.9	229
113	A major developmental transition in early xenopus embryos: II. control of the onset of transcription. Cell, 1982, 30, 687-696.	28.9	1,043
114	A major developmental transition in early xenopus embryos: I. characterization and timing of cellular changes at the midblastula stage. Cell, 1982, 30, 675-686.	28.9	1,619