

Anthony A Hyman

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225
papers

36,408
citations

107
h-index

190
g-index

240
ext. papers

44,939
ext. citations

17.8
avg, IF

7.59
L-index

#	Paper	IF	Citations
225	Biomolecular condensates: organizers of cellular biochemistry. <i>Nature Reviews Molecular Cell Biology</i> , 2017 , 18, 285-298	48.7	2036
224	Germline P granules are liquid droplets that localize by controlled dissolution/condensation. <i>Science</i> , 2009 , 324, 1729-32	33.3	1476
223	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , 2015 , 162, 1066-77	56.2	1388
222	Liquid-liquid phase separation in biology. <i>Annual Review of Cell and Developmental Biology</i> , 2014 , 30, 39-58	12.6	1383
221	A human interactome in three quantitative dimensions organized by stoichiometries and abundances. <i>Cell</i> , 2015 , 163, 712-23	56.2	788
220	Functional genomic analysis of cell division in <i>C. elegans</i> using RNAi of genes on chromosome III. <i>Nature</i> , 2000 , 408, 331-6	50.4	753
219	Active liquid-like behavior of nucleoli determines their size and shape in <i>Xenopus laevis</i> oocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4334-9	11.5	725
218	A Molecular Grammar Governing the Driving Forces for Phase Separation of Prion-like RNA Binding Proteins. <i>Cell</i> , 2018 , 174, 688-699.e16	56.2	719
217	Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. <i>Nature</i> , 2010 , 464, 721-7	50.4	668
216	Dynamics and mechanics of the microtubule plus end. <i>Nature</i> , 2003 , 422, 753-8	50.4	586
215	Quantitative interaction proteomics and genome-wide profiling of epigenetic histone marks and their readers. <i>Cell</i> , 2010 , 142, 967-80	56.2	579
214	RNA buffers the phase separation behavior of prion-like RNA binding proteins. <i>Science</i> , 2018 , 360, 918-923	33.3	491
213	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. <i>Nature Methods</i> , 2008 , 5, 409-15	21.6	484
212	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. <i>Nature</i> , 2011 , 469, 226-30	50.4	453
211	Systematic analysis of human protein complexes identifies chromosome segregation proteins. <i>Science</i> , 2010 , 328, 593-9	33.3	419
210	ATP as a biological hydrotrope. <i>Science</i> , 2017 , 356, 753-756	33.3	417
209	Polarity controls forces governing asymmetric spindle positioning in the <i>Caenorhabditis elegans</i> embryo. <i>Nature</i> , 2001 , 409, 630-3	50.4	409

208	The spindle: a dynamic assembly of microtubules and motors. <i>Nature Cell Biology</i> , 2001 , 3, E28-34	23.4	399
207	Rab5 regulates motility of early endosomes on microtubules. <i>Nature Cell Biology</i> , 1999 , 1, 376-82	23.4	386
206	XMAP215 is a processive microtubule polymerase. <i>Cell</i> , 2008 , 132, 79-88	56.2	385
205	Binding of the adenomatous polyposis coli protein to microtubules increases microtubule stability and is regulated by GSK3 beta phosphorylation. <i>Current Biology</i> , 2001 , 11, 44-9	6.3	385
204	Functional analysis of kinetochore assembly in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2001 , 153, 1209-26	7.3	364
203	Cytoplasmic dynein is required for distinct aspects of MTOC positioning, including centrosome separation, in the one cell stage <i>Caenorhabditis elegans</i> embryo. <i>Journal of Cell Biology</i> , 1999 , 147, 135-50	7.3	362
202	Aurora-A kinase is required for centrosome maturation in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2001 , 155, 1109-16	7.3	354
201	Phase separation of a yeast prion protein promotes cellular fitness. <i>Science</i> , 2018 , 359,	33.3	344
200	Visualizing the molecular sociology at the HeLa cell nuclear periphery. <i>Science</i> , 2016 , 351, 969-72	33.3	344
199	Yeast kinesin-8 depolymerizes microtubules in a length-dependent manner. <i>Nature Cell Biology</i> , 2006 , 8, 957-62	23.4	340
198	The Centrosome Is a Selective Condensate that Nucleates Microtubules by Concentrating Tubulin. <i>Cell</i> , 2017 , 169, 1066-1077.e10	56.2	330
197	CYK-4: A Rho family gtpase activating protein (GAP) required for central spindle formation and cytokinesis. <i>Journal of Cell Biology</i> , 2000 , 149, 1391-404	7.3	309
196	Centriole assembly in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2006 , 444, 619-23	50.4	306
195	The distribution of active force generators controls mitotic spindle position. <i>Science</i> , 2003 , 301, 518-21	33.3	292
194	Ki-67 acts as a biological surfactant to disperse mitotic chromosomes. <i>Nature</i> , 2016 , 535, 308-12	50.4	269
193	A systematic mammalian genetic interaction map reveals pathways underlying ricin susceptibility. <i>Cell</i> , 2013 , 152, 909-22	56.2	264
192	SAS-4 is a <i>C. elegans</i> centriolar protein that controls centrosome size. <i>Cell</i> , 2003 , 112, 575-87	56.2	262
191	Live-cell imaging RNAi screen identifies PP2A-B55alpha and importin-beta1 as key mitotic exit regulators in human cells. <i>Nature Cell Biology</i> , 2010 , 12, 886-93	23.4	258

190	Sororin mediates sister chromatid cohesion by antagonizing Wapl. <i>Cell</i> , 2010 , 143, 737-49	56.2	255
189	Genome-scale RNAi profiling of cell division in human tissue culture cells. <i>Nature Cell Biology</i> , 2007 , 9, 1401-12	23.4	254
188	Morphogenetic properties of microtubules and mitotic spindle assembly. <i>Cell</i> , 1996 , 84, 401-10	56.2	251
187	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. <i>Cell</i> , 2020 , 181, 346-361.e17	56.2	243
186	An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. <i>EMBO Journal</i> , 2017 , 36, 1669-1687	13	237
185	Novel asymmetrically localizing components of human centrosomes identified by complementary proteomics methods. <i>EMBO Journal</i> , 2011 , 30, 1520-35	13	235
184	Microtubule polymerases and depolymerases. <i>Current Opinion in Cell Biology</i> , 2007 , 19, 31-5	9	230
183	Predictive models of molecular machines involved in <i>Caenorhabditis elegans</i> early embryogenesis. <i>Nature</i> , 2005 , 436, 861-5	50.4	225
182	Role of mitochondria in the pheromone- and amiodarone-induced programmed death of yeast. <i>Journal of Cell Biology</i> , 2005 , 168, 257-69	7.3	218
181	Polarization of PAR proteins by advective triggering of a pattern-forming system. <i>Science</i> , 2011 , 334, 1137-41	33.3	213
180	A requirement for Rho and Cdc42 during cytokinesis in <i>Xenopus</i> embryos. <i>Current Biology</i> , 1997 , 7, 12-23.3	36.3	213
179	Aurora A phosphorylation of TACC3/maskin is required for centrosome-dependent microtubule assembly in mitosis. <i>Journal of Cell Biology</i> , 2005 , 170, 1047-55	7.3	208
178	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. <i>Cell</i> , 2016 , 166, 1572-1584.e16	56.2	206
177	Asymmetric cell division in <i>C. elegans</i> : cortical polarity and spindle positioning. <i>Annual Review of Cell and Developmental Biology</i> , 2004 , 20, 427-53	12.6	194
176	Amyloid-like Self-Assembly of a Cellular Compartment. <i>Cell</i> , 2016 , 166, 637-650	56.2	194
175	Identification of essential components of the <i>S. cerevisiae</i> kinetochore. <i>Cell</i> , 1993 , 73, 761-74	56.2	193
174	Molecular requirements for bi-directional movement of phagosomes along microtubules. <i>Journal of Cell Biology</i> , 1997 , 137, 113-29	7.3	189
173	Two different microtubule-based motor activities with opposite polarities in kinetochores. <i>Nature</i> , 1991 , 351, 206-11	50.4	189

172	Reconstitution of physiological microtubule dynamics using purified components. <i>Science</i> , 2001 , 294, 1340-3	33.3	187
171	HAUS, the 8-subunit human Augmin complex, regulates centrosome and spindle integrity. <i>Current Biology</i> , 2009 , 19, 816-26	6.3	186
170	The <i>Caenorhabditis elegans</i> centrosomal protein SPD-2 is required for both pericentriolar material recruitment and centriole duplication. <i>Current Biology</i> , 2004 , 14, 863-73	6.3	186
169	Coupling cell division and cell death to microtubule dynamics. <i>Current Opinion in Cell Biology</i> , 1997 , 9, 807-14	9	184
168	Pericentriolar material structure and dynamics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	183
167	Stoichiometry of chromatin-associated protein complexes revealed by label-free quantitative mass spectrometry-based proteomics. <i>Nucleic Acids Research</i> , 2013 , 41, e28	20.1	183
166	Growth and division of active droplets provides a model for protocells. <i>Nature Physics</i> , 2017 , 13, 408-413	16.2	182
165	A genome-scale resource for in vivo tag-based protein function exploration in <i>C. elegans</i> . <i>Cell</i> , 2012 , 150, 855-66	56.2	181
164	Local Nucleation of Microtubule Bundles through Tubulin Concentration into a Condensed Tau Phase. <i>Cell Reports</i> , 2017 , 20, 2304-2312	10.6	180
163	Cell biology. Beyond oil and water--phase transitions in cells. <i>Science</i> , 2012 , 337, 1047-9	33.3	180
162	The kinetically dominant assembly pathway for centrosomal asters in <i>Caenorhabditis elegans</i> is gamma-tubulin dependent. <i>Journal of Cell Biology</i> , 2002 , 157, 591-602	7.3	178
161	A cytokinesis furrow is positioned by two consecutive signals. <i>Nature</i> , 2005 , 436, 731-4	50.4	177
160	Centrosomes direct cell polarity independently of microtubule assembly in <i>C. elegans</i> embryos. <i>Nature</i> , 2004 , 431, 92-6	50.4	175
159	Identification and characterization of factors required for microtubule growth and nucleation in the early <i>C. elegans</i> embryo. <i>Developmental Cell</i> , 2005 , 9, 223-36	10.2	170
158	Spindle positioning by cortical pulling forces. <i>Developmental Cell</i> , 2005 , 8, 461-5	10.2	168
157	Diverse transcription factor binding features revealed by genome-wide ChIP-seq in <i>C. elegans</i> . <i>Genome Research</i> , 2011 , 21, 245-54	9.7	167
156	BICD2, dynactin, and LIS1 cooperate in regulating dynein recruitment to cellular structures. <i>Molecular Biology of the Cell</i> , 2012 , 23, 4226-41	3.5	163
155	A protein domain-based interactome network for <i>C. elegans</i> early embryogenesis. <i>Cell</i> , 2008 , 134, 534-45	56.2	161

154	Are aberrant phase transitions a driver of cellular aging?. <i>BioEssays</i> , 2016 , 38, 959-68	4.1	160
153	CDK1 inactivation regulates anaphase spindle dynamics and cytokinesis in vivo. <i>Journal of Cell Biology</i> , 1997 , 138, 385-93	7.3	160
152	A high-resolution <i>C. elegans</i> essential gene network based on phenotypic profiling of a complex tissue. <i>Cell</i> , 2011 , 145, 470-82	56.2	155
151	Building a spindle of the correct length in human cells requires the interaction between TPX2 and Aurora A. <i>Journal of Cell Biology</i> , 2008 , 182, 289-300	7.3	147
150	The conserved protein DCN-1/Dcn1p is required for cullin neddylation in <i>C. elegans</i> and <i>S. cerevisiae</i> . <i>Nature</i> , 2005 , 435, 1257-61	50.4	147
149	Limiting amounts of centrosome material set centrosome size in <i>C. elegans</i> embryos. <i>Current Biology</i> , 2011 , 21, 1259-67	6.3	143
148	The mammalian SPD-2 ortholog Cep192 regulates centrosome biogenesis. <i>Current Biology</i> , 2008 , 18, 136-41	6.3	143
147	Spindle oscillations during asymmetric cell division require a threshold number of active cortical force generators. <i>Current Biology</i> , 2006 , 16, 2111-22	6.3	143
146	CPAP promotes timely cilium disassembly to maintain neural progenitor pool. <i>EMBO Journal</i> , 2016 , 35, 803-19	13	141
145	Centrosome size sets mitotic spindle length in <i>Caenorhabditis elegans</i> embryos. <i>Current Biology</i> , 2010 , 20, 353-8	6.3	140
144	Impaired DNA damage response signaling by FUS-NLS mutations leads to neurodegeneration and FUS aggregate formation. <i>Nature Communications</i> , 2018 , 9, 335	17.4	139
143	Growth, fluctuation and switching at microtubule plus ends. <i>Nature Reviews Molecular Cell Biology</i> , 2009 , 10, 569-74	48.7	135
142	Regulating the yeast kinetochore by ubiquitin-dependent degradation and Skp1p-mediated phosphorylation. <i>Cell</i> , 1997 , 91, 491-500	56.2	133
141	Genome-wide identification of binding sites defines distinct functions for <i>Caenorhabditis elegans</i> PHA-4/FOXA in development and environmental response. <i>PLoS Genetics</i> , 2010 , 6, e1000848	6	132
140	Organelle growth control through limiting pools of cytoplasmic components. <i>Current Biology</i> , 2012 , 22, R330-9	6.3	131
139	Aurora A activates D-TACC-Msps complexes exclusively at centrosomes to stabilize centrosomal microtubules. <i>Journal of Cell Biology</i> , 2005 , 170, 1039-46	7.3	128
138	Morphologically distinct microtubule ends in the mitotic centrosome of <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2003 , 163, 451-6	7.3	126
137	Centrosomes. Regulated assembly of a supramolecular centrosome scaffold in vitro. <i>Science</i> , 2015 , 348, 808-12	33.3	125

136	Katanin disrupts the microtubule lattice and increases polymer number in <i>C. elegans</i> meiosis. <i>Current Biology</i> , 2006 , 16, 1944-9	6.3	123
135	Biomolecular condensates at the nexus of cellular stress, protein aggregation disease and ageing. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 196-213	48.7	123
134	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. <i>Biophysical Journal</i> , 2016 , 110, 860-9	2.9	122
133	Centrosomes are autocatalytic droplets of pericentriolar material organized by centrioles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2636-45	11.5	122
132	Functional repurposing revealed by comparing <i>S. pombe</i> and <i>S. cerevisiae</i> genetic interactions. <i>Cell</i> , 2012 , 149, 1339-52	56.2	122
131	Different Material States of Pub1 Condensates Define Distinct Modes of Stress Adaptation and Recovery. <i>Cell Reports</i> , 2018 , 23, 3327-3339	10.6	121
130	Partitioning of cancer therapeutics in nuclear condensates. <i>Science</i> , 2020 , 368, 1386-1392	33.3	120
129	EB1 recognizes the nucleotide state of tubulin in the microtubule lattice. <i>PLoS ONE</i> , 2009 , 4, e7585	3.7	119
128	XMAP215: a key component of the dynamic microtubule cytoskeleton. <i>Trends in Cell Biology</i> , 2002 , 12, 267-73	18.3	117
127	Mitotic chromatin regulates phosphorylation of Stathmin/Op18. <i>Nature</i> , 1997 , 389, 640-3	50.4	115
126	Proliferating versus differentiating stem and cancer cells exhibit distinct midbody-release behaviour. <i>Nature Communications</i> , 2011 , 2, 503	17.4	112
125	XMAP215 polymerase activity is built by combining multiple tubulin-binding TOG domains and a basic lattice-binding region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2741-6	11.5	111
124	Spatial organization of the cell cytoplasm by position-dependent phase separation. <i>Physical Review Letters</i> , 2013 , 111, 088101	7.4	110
123	CDC-42 and RHO-1 coordinate actomyosin contractility and PAR protein localization during polarity establishment in <i>C. elegans</i> embryos. <i>Development (Cambridge)</i> , 2006 , 133, 3507-16	6.6	109
122	Organization and Function of Non-dynamic Biomolecular Condensates. <i>Trends in Biochemical Sciences</i> , 2018 , 43, 81-94	10.3	109
121	A User's Guide for Phase Separation Assays with Purified Proteins. <i>Journal of Molecular Biology</i> , 2018 , 430, 4806-4820	6.5	109
120	Synergy between XMAP215 and EB1 increases microtubule growth rates to physiological levels. <i>Nature Cell Biology</i> , 2013 , 15, 688-93	23.4	107
119	Beyond stereospecificity: liquids and mesoscale organization of cytoplasm. <i>Developmental Cell</i> , 2011 , 21, 14-6	10.2	107

118	APC15 mediates CDC20 autoubiquitylation by APC/C(MCC) and disassembly of the mitotic checkpoint complex. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 1116-23	17.6	106
117	Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , 2014 , 4, 6213	4.9	105
116	Phase Transitions Drive the Formation of Vesicular Stomatitis Virus Replication Compartments. <i>MBio</i> , 2018 , 9,	7.8	105
115	Cdk1-dependent mitotic enrichment of cortical myosin II promotes cell rounding against confinement. <i>Nature Cell Biology</i> , 2015 , 17, 148-59	23.4	102
114	Structural transitions at microtubule ends correlate with their dynamic properties in <i>Xenopus</i> egg extracts. <i>Journal of Cell Biology</i> , 2000 , 149, 767-74	7.3	97
113	A focused ion beam milling and lift-out approach for site-specific preparation of frozen-hydrated lamellas from multicellular organisms. <i>Journal of Structural Biology</i> , 2015 , 192, 262-9	3.4	96
112	The Rho GTPase-activating proteins RGA-3 and RGA-4 are required to set the initial size of PAR domains in <i>Caenorhabditis elegans</i> one-cell embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14976-81	11.5	96
111	An essential function of the <i>C. elegans</i> ortholog of TPX2 is to localize activated aurora A kinase to mitotic spindles. <i>Developmental Cell</i> , 2005 , 9, 237-48	10.2	94
110	One-step purification of assembly-competent tubulin from diverse eukaryotic sources. <i>Molecular Biology of the Cell</i> , 2012 , 23, 4393-401	3.5	91
109	Acto-myosin reorganization and PAR polarity in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2007 , 134, 1035-43	3.6	89
108	Stress generation and filament turnover during actin ring constriction. <i>PLoS ONE</i> , 2007 , 2, e696	3.7	88
107	<i>Caenorhabditis elegans</i> TAC-1 and ZYG-9 form a complex that is essential for long astral and spindle microtubules. <i>Current Biology</i> , 2003 , 13, 1506-11	6.3	88
106	XMAP215 activity sets spindle length by controlling the total mass of spindle microtubules. <i>Nature Cell Biology</i> , 2013 , 15, 1116-22	23.4	87
105	A genomic toolkit to investigate kinesin and myosin motor function in cells. <i>Nature Cell Biology</i> , 2013 , 15, 325-34	23.4	87
104	PAR proteins diffuse freely across the anterior-posterior boundary in polarized <i>C. elegans</i> embryos. <i>Journal of Cell Biology</i> , 2011 , 193, 583-94	7.3	86
103	RNA interference rescue by bacterial artificial chromosome transgenesis in mammalian tissue culture cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2396-401	11.5	85
102	Crystal structure of a TOG domain: conserved features of XMAP215/Dis1-family TOG domains and implications for tubulin binding. <i>Structure</i> , 2007 , 15, 355-62	5.2	84
101	Comparative profiling identifies C13orf3 as a component of the Ska complex required for mammalian cell division. <i>EMBO Journal</i> , 2009 , 28, 1453-65	13	82

100	Protein Dynamics in Complex DNA Lesions. <i>Molecular Cell</i> , 2018 , 69, 1046-1061.e5	17.6	80
99	zyg-8, a gene required for spindle positioning in <i>C. elegans</i> , encodes a doublecortin-related kinase that promotes microtubule assembly. <i>Developmental Cell</i> , 2001 , 1, 363-75	10.2	80
98	Suppression of Ostwald ripening in active emulsions. <i>Physical Review E</i> , 2015 , 92, 012317	2.4	79
97	Controlling compartmentalization by non-membrane-bound organelles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	78
96	GTP binding induces filament assembly of a recombinant septin. <i>Current Biology</i> , 2002 , 12, 1858-63	6.3	78
95	The <i>C. elegans</i> RSA complex localizes protein phosphatase 2A to centrosomes and regulates mitotic spindle assembly. <i>Cell</i> , 2007 , 128, 115-27	56.2	77
94	Rheology of the Active Cell Cortex in Mitosis. <i>Biophysical Journal</i> , 2016 , 111, 589-600	2.9	76
93	Protein condensates as aging Maxwell fluids. <i>Science</i> , 2020 , 370, 1317-1323	33.3	75
92	Systematic phosphorylation analysis of human mitotic protein complexes. <i>Science Signaling</i> , 2011 , 4, rs12	8.8	74
91	Salt-Dependent Rheology and Surface Tension of Protein Condensates Using Optical Traps. <i>Physical Review Letters</i> , 2018 , 121, 258101	7.4	73
90	LGL can partition the cortex of one-cell <i>Caenorhabditis elegans</i> embryos into two domains. <i>Current Biology</i> , 2010 , 20, 1296-303	6.3	72
89	Automated tracing of microtubules in electron tomograms of plastic embedded samples of <i>Caenorhabditis elegans</i> embryos. <i>Journal of Structural Biology</i> , 2012 , 178, 129-38	3.4	68
88	Reentrant liquid condensate phase of proteins is stabilized by hydrophobic and non-ionic interactions. <i>Nature Communications</i> , 2021 , 12, 1085	17.4	68
87	Membrane invaginations reveal cortical sites that pull on mitotic spindles in one-cell <i>C. elegans</i> embryos. <i>PLoS ONE</i> , 2010 , 5, e12301	3.7	67
86	Principles of PAR polarity in <i>Caenorhabditis elegans</i> embryos. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 315-22	48.7	66
85	LET-99, GOA-1/GPA-16, and GPR-1/2 are required for aster-positioned cytokinesis. <i>Current Biology</i> , 2007 , 17, 185-91	6.3	65
84	Isogenic FUS-eGFP iPSC Reporter Lines Enable Quantification of FUS Stress Granule Pathology that Is Rescued by Drugs Inducing Autophagy. <i>Stem Cell Reports</i> , 2018 , 10, 375-389	8	64
83	Preparation of marked microtubules for the assay of the polarity of microtubule-based motors by fluorescence microscopy. <i>Methods in Cell Biology</i> , 1993 , 39, 105-13	1.8	63

82	FUS pathology in ALS is linked to alterations in multiple ALS-associated proteins and rescued by drugs stimulating autophagy. <i>Acta Neuropathologica</i> , 2019 , 138, 67-84	14.3	61
81	The mbk-2 kinase is required for inactivation of MEI-1/katanin in the one-cell <i>Caenorhabditis elegans</i> embryo. <i>EMBO Reports</i> , 2003 , 4, 1175-81	6.5	60
80	Sds22 and Repo-Man stabilize chromosome segregation by counteracting Aurora B on anaphase kinetochores. <i>Journal of Cell Biology</i> , 2012 , 198, 173-83	7.3	59
79	Cell cycle progression requires the CDC-48/UFD-1/NPL-4 complex for efficient DNA replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12879-84	11.5	58
78	Cyclin E-Cdk2 temporally regulates centrosome assembly and establishment of polarity in <i>Caenorhabditis elegans</i> embryos. <i>Nature Cell Biology</i> , 2006 , 8, 1441-7	23.4	57
77	Kinetically distinct phases of tau on microtubules regulate kinesin motors and severing enzymes. <i>Nature Cell Biology</i> , 2019 , 21, 1086-1092	23.4	54
76	Mitotic cells contract actomyosin cortex and generate pressure to round against or escape epithelial confinement. <i>Nature Communications</i> , 2015 , 6, 8872	17.4	54
75	Efficient chaperone-mediated tubulin biogenesis is essential for cell division and cell migration in <i>C. elegans</i> . <i>Developmental Biology</i> , 2008 , 313, 320-34	3.1	54
74	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. <i>Cell</i> , 2020 , 181, 818-831.e19	56.2	53
73	Purification of tubulin from porcine brain. <i>Methods in Molecular Biology</i> , 2011 , 777, 15-28	1.4	52
72	Temperature Dependence of Cell Division Timing Accounts for a Shift in the Thermal Limits of <i>C. elegans</i> and <i>C. briggsae</i> . <i>Cell Reports</i> , 2015 , 10, 647-653	10.6	51
71	FRAP analysis of membrane-associated proteins: lateral diffusion and membrane-cytoplasmic exchange. <i>Biophysical Journal</i> , 2010 , 99, 2443-52	2.9	51
70	Conserved TCP domain of Sas-4/CPAP is essential for pericentriolar material tethering during centrosome biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E354-63	11.5	50
69	Characterization of protein dynamics in asymmetric cell division by scanning fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2008 , 95, 5476-86	2.9	48
68	Molecular basis for CPAP-tubulin interaction in controlling centriolar and ciliary length. <i>Nature Communications</i> , 2016 , 7, 11874	17.4	45
67	High-efficiency counterselection recombineering for site-directed mutagenesis in bacterial artificial chromosomes. <i>Nature Methods</i> , 2011 , 9, 103-9	21.6	44
66	Cortical domains and the mechanisms of asymmetric cell division. <i>Trends in Cell Biology</i> , 1996 , 6, 382-7	18.3	42
65	GTSE1 is a microtubule plus-end tracking protein that regulates EB1-dependent cell migration. <i>PLoS ONE</i> , 2012 , 7, e51259	3.7	40

64	Tracking mechanics and volume of globular cells with atomic force microscopy using a constant-height clamp. <i>Nature Protocols</i> , 2012 , 7, 143-54	18.8	40
63	Cortical domain correction repositions the polarity boundary to match the cytokinesis furrow in <i>C. elegans</i> embryos. <i>Development (Cambridge)</i> , 2010 , 137, 1743-53	6.6	38
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