

Anthony A Hyman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Characterization of RNA content in individual phase-separated coacervate microdroplets.. <i>Nature Communications</i> , 2022 , 13, 2626	17.4	1
224	ESI mutagenesis: a one-step method for introducing mutations into bacterial artificial chromosomes. <i>Life Science Alliance</i> , 2021 , 4,	5.8	2
223	Quantitative theory for the diffusive dynamics of liquid condensates. <i>ELife</i> , 2021 , 10,	8.9	3
222	Feedback control of PLK1 by Apolo1 ensures accurate chromosome segregation. <i>Cell Reports</i> , 2021 , 36, 109343	10.6	2
221	Phosphofructokinase relocalizes into subcellular compartments with liquid-like properties in vivo. <i>Biophysical Journal</i> , 2021 , 120, 1170-1186	2.9	11
220	Reentrant liquid condensate phase of proteins is stabilized by hydrophobic and non-ionic interactions. <i>Nature Communications</i> , 2021 , 12, 1085	17.4	68
219	HspB8 prevents aberrant phase transitions of FUS by chaperoning its folded RNA-binding domain. <i>ELife</i> , 2021 , 10,	8.9	5
218	Local thermodynamics govern formation and dissolution of elegans P granule condensates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
217	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
216	Protein condensates as aging Maxwell fluids. <i>Science</i> , 2020 , 370, 1317-1323	33.3	75
215	Partitioning of cancer therapeutics in nuclear condensates. <i>Science</i> , 2020 , 368, 1386-1392	33.3	120
214	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. <i>Cell</i> , 2020 , 181, 818-831.e19	56.2	53
213	Drops and fibers - how biomolecular condensates and cytoskeletal filaments influence each other. <i>Emerging Topics in Life Sciences</i> , 2020 , 4, 247-261	3.5	14
212	ASCB Keith Porter Lecture. <i>Molecular Biology of the Cell</i> , 2020 , 31, 2864-2867	3.5	0
211	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
210	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
209	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

208	Directed Growth of Biomimetic Microcompartments. <i>Advanced Biology</i> , 2019 , 3, e1800314	3.5	14
207	Soluble tubulin is significantly enriched at mitotic centrosomes. <i>Journal of Cell Biology</i> , 2019 , 218, 3977-3985	3.3	13
206	Inhibition of CPAP-tubulin interaction prevents proliferation of centrosome-amplified cancer cells. <i>EMBO Journal</i> , 2019 , 38,	13	12
205	Phosphatase PP2A and microtubule-mediated pulling forces disassemble centrosomes during mitotic exit. <i>Biology Open</i> , 2018 , 7,	2.2	21
204	Controlling compartmentalization by non-membrane-bound organelles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	78
203	RNA buffers the phase separation behavior of prion-like RNA binding proteins. <i>Science</i> , 2018 , 360, 918-923	3.3	491
202	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
201	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
200	Phase separation of a yeast prion protein promotes cellular fitness. <i>Science</i> , 2018 , 359,	33.3	344
199	Protein Dynamics in Complex DNA Lesions. <i>Molecular Cell</i> , 2018 , 69, 1046-1061.e5	17.6	80
198	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
197	The replicative helicase MCM recruits cohesin acetyltransferase ESCO2 to mediate centromeric sister chromatid cohesion. <i>EMBO Journal</i> , 2018 , 37,	13	26
196	Organization and Function of Non-dynamic Biomolecular Condensates. <i>Trends in Biochemical Sciences</i> , 2018 , 43, 81-94	10.3	109
195	Salt-Dependent Rheology and Surface Tension of Protein Condensates Using Optical Traps. <i>Physical Review Letters</i> , 2018 , 121, 258101	7.4	73
194	Positioning of Particles in Active Droplets. <i>Physical Review Letters</i> , 2018 , 121, 158102	7.4	14
193	Phase Transitions Drive the Formation of Vesicular Stomatitis Virus Replication Compartments. <i>MBio</i> , 2018 , 9,	7.8	105
192	A User's Guide for Phase Separation Assays with Purified Proteins. <i>Journal of Molecular Biology</i> , 2018 , 430, 4806-4820	6.5	109
191	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

190	Rab5 and Alsln regulate stress-activated cytoprotective signaling on mitochondria. <i>ELife</i> , 2018 , 7,	8.9	37
189	Biomolecular condensates: organizers of cellular biochemistry. <i>Nature Reviews Molecular Cell Biology</i> , 2017 , 18, 285-298	48.7	2036
188	ATP as a biological hydrotrope. <i>Science</i> , 2017 , 356, 753-756	33.3	417
187	Stem cells: the new "model organism". <i>Molecular Biology of the Cell</i> , 2017 , 28, 1409-1411	3.5	15
186	The Centrosome Is a Selective Condensate that Nucleates Microtubules by Concentrating Tubulin. <i>Cell</i> , 2017 , 169, 1066-1077.e10	56.2	330
185	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
184	Growth and division of active droplets provides a model for protocells. <i>Nature Physics</i> , 2017 , 13, 408-413	16.2	182
183	Genome-scale single-cell mechanical phenotyping reveals disease-related genes involved in mitotic rounding. <i>Nature Communications</i> , 2017 , 8, 1266	17.4	28
182	Local Nucleation of Microtubule Bundles through Tubulin Concentration into a Condensed Tau Phase. <i>Cell Reports</i> , 2017 , 20, 2304-2312	10.6	180
181	RNA gets in phase. <i>Journal of Cell Biology</i> , 2017 , 216, 2235-2237	7.3	14
180	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
179	Are aberrant phase transitions a driver of cellular aging?. <i>BioEssays</i> , 2016 , 38, 959-68	4.1	160
178	A locus in <i>Pristionchus pacificus</i> that is responsible for the ability to give rise to fertile offspring at higher temperatures. <i>Biology Open</i> , 2016 , 5, 1111-7	2.2	2
177	The Mitotic Spindle in the One-Cell <i>C. elegans</i> Embryo Is Positioned with High Precision and Stability. <i>Biophysical Journal</i> , 2016 , 111, 1773-1784	2.9	14
176	Molecular basis for CPAP-tubulin interaction in controlling centriolar and ciliary length. <i>Nature Communications</i> , 2016 , 7, 11874	17.4	45
175	PLEKHA7 Recruits PDZD11 to Adherens Junctions to Stabilize Nectins. <i>Journal of Biological Chemistry</i> , 2016 , 291, 11016-29	5.4	22
174	Ki-67 acts as a biological surfactant to disperse mitotic chromosomes. <i>Nature</i> , 2016 , 535, 308-12	50.4	269
173	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. <i>Biophysical Journal</i> , 2016 , 110, 860-9	2.9	122

172	Visualizing the molecular sociology at the HeLa cell nuclear periphery. <i>Science</i> , 2016 , 351, 969-72	33.3	344
171	Priority of discovery in the life sciences. <i>ELife</i> , 2016 , 5,	8.9	15
170	CPAP promotes timely cilium disassembly to maintain neural progenitor pool. <i>EMBO Journal</i> , 2016 , 35, 803-19	13	141
169	TransgeneOmics--A transgenic platform for protein localization based function exploration. <i>Methods</i> , 2016 , 96, 69-74	4.6	6
168	Polo-like kinase phosphorylation determines <i>Caenorhabditis elegans</i> centrosome size and density by biasing SPD-5 toward an assembly-competent conformation. <i>Biology Open</i> , 2016 , 5, 1431-1440	2.2	35
167	In vitro Reconstitution of a Membrane Switch Mechanism for the Polarity Protein LGL. <i>Journal of Molecular Biology</i> , 2016 , 428, 4828-4842	6.5	14
166	Rheology of the Active Cell Cortex in Mitosis. <i>Biophysical Journal</i> , 2016 , 111, 589-600	2.9	76
165	Amyloid-like Self-Assembly of a Cellular Compartment. <i>Cell</i> , 2016 , 166, 637-650	56.2	194
164	Emergent Properties of the Metaphase Spindle. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015 , 7, a015784	27	
163	Method: In vitro analysis of pericentriolar material assembly. <i>Methods in Cell Biology</i> , 2015 , 129, 369-382	1.8	8
162	Sestrin 2 protein regulates platelet-derived growth factor receptor (Pdgfr) expression by modulating proteasomal and Nrf2 transcription factor functions. <i>Journal of Biological Chemistry</i> , 2015 , 290, 9738-52	5.4	14
161	Centrosomes. Regulated assembly of a supramolecular centrosome scaffold in vitro. <i>Science</i> , 2015 , 348, 808-12	33.3	125
160	A human interactome in three quantitative dimensions organized by stoichiometries and abundances. <i>Cell</i> , 2015 , 163, 712-23	56.2	788
159	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
158	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
157	Quantitative comparison of a human cancer cell surface proteome between interphase and mitosis. <i>EMBO Journal</i> , 2015 , 34, 251-65	13	27
156	Suppression of Ostwald ripening in active emulsions. <i>Physical Review E</i> , 2015 , 92, 012317	2.4	79
155	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

154	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
153	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
152	Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , 2014 , 4, 6213	4.9	105
151	Timing and mechanism of the initial cue establishing handed left-right asymmetry in <i>Caenorhabditis elegans</i> embryos. <i>Genesis</i> , 2014 , 52, 572-80	1.9	29
150	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
149	Liquid-liquid phase separation in biology. <i>Annual Review of Cell and Developmental Biology</i> , 2014 , 30, 39-58	12.6	1383
148	The <i>Caenorhabditis elegans</i> pericentriolar material components SPD-2 and SPD-5 are monomeric in the cytoplasm before incorporation into the PCM matrix. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2984-92	3.5	26
147	Coiled-coil proteins facilitated the functional expansion of the centrosome. <i>PLoS Computational Biology</i> , 2014 , 10, e1003657	5	23
146	Products of the Parkinson's disease-related glyoxalase DJ-1, D-lactate and glycolate, support mitochondrial membrane potential and neuronal survival. <i>Biology Open</i> , 2014 , 3, 777-84	2.2	35
145	Pericentriolar material structure and dynamics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	183
144	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
143	Encouraging innovation. <i>Molecular Biology of the Cell</i> , 2014 , 25, 427-8	3.5	0
142	The segmentation of microtubules in electron tomograms using Amira. <i>Methods in Molecular Biology</i> , 2014 , 1136, 261-78	1.4	14
141	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
140	A genomic toolkit to investigate kinesin and myosin motor function in cells. <i>Nature Cell Biology</i> , 2013 , 15, 325-34	23.4	87
139	A systematic mammalian genetic interaction map reveals pathways underlying ricin susceptibility. <i>Cell</i> , 2013 , 152, 909-22	56.2	264
138	Principles of PAR polarity in <i>Caenorhabditis elegans</i> embryos. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 315-22	48.7	66
137	Synergy between XMAP215 and EB1 increases microtubule growth rates to physiological levels. <i>Nature Cell Biology</i> , 2013 , 15, 688-93	23.4	107

136	Spatial organization of the cell cytoplasm by position-dependent phase separation. <i>Physical Review Letters</i> , 2013 , 111, 088101	7.4	110
135	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
134	C11ORF24 is a novel type I membrane protein that cycles between the Golgi apparatus and the plasma membrane in Rab6-positive vesicles. <i>PLoS ONE</i> , 2013 , 8, e82223	3.7	3
133	Organelle growth control through limiting pools of cytoplasmic components. <i>Current Biology</i> , 2012 , 22, R330-9	6.3	131
132	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
131	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
130	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
129	Cell biology. Beyond oil and water--phase transitions in cells. <i>Science</i> , 2012 , 337, 1047-9	33.3	180
128	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
127	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
126	GTSE1 is a microtubule plus-end tracking protein that regulates EB1-dependent cell migration. <i>PLoS ONE</i> , 2012 , 7, e51259	3.7	40
125	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
124	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
123	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
122	High-efficiency counterselection recombineering for site-directed mutagenesis in bacterial artificial chromosomes. <i>Nature Methods</i> , 2011 , 9, 103-9	21.6	44
121	Purification of tubulin from porcine brain. <i>Methods in Molecular Biology</i> , 2011 , 777, 15-28	1.4	52
120	Polarization of PAR proteins by advective triggering of a pattern-forming system. <i>Science</i> , 2011 , 334, 1137-41	33.3	213
119	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

118	Samurai sword sets spindle size. <i>Cell</i> , 2011 , 147, 1224-5	56.2	1
117	Beyond stereospecificity: liquids and mesoscale organization of cytoplasm. <i>Developmental Cell</i> , 2011 , 21, 14-6	10.2	107
116	3K1334 A single-cell RNAi screen for regulators of mitotic cell mechanics identifies diseases-associated genes (Cell biology 4, The 49th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsurui</i> , 2011 , 51, S146	0	
115	Novel asymmetrically localizing components of human centrosomes identified by complementary proteomics methods. <i>EMBO Journal</i> , 2011 , 30, 1520-35	13	235
114	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. <i>Nature</i> , 2011 , 469, 226-30	50.4	453
113	Force probing cell shape changes to molecular resolution. <i>Trends in Biochemical Sciences</i> , 2011 , 36, 444-50	0.3	22
112	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
111	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
110	Atomic Force Microscopy to Study Mechanics of Living Mitotic Mammalian Cells. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08LA01	1.4	1
109	Proliferating versus differentiating stem and cancer cells exhibit distinct midbody-release behaviour. <i>Nature Communications</i> , 2011 , 2, 503	17.4	112
108	Systematic phosphorylation analysis of human mitotic protein complexes. <i>Science Signaling</i> , 2011 , 4, rs12	8.8	74
107	Whither systems biology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 3635-7	5.8	14
106	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
105	The first cell cycle of the <i>Caenorhabditis elegans</i> embryo: spatial and temporal control of an asymmetric cell division. <i>Results and Problems in Cell Differentiation</i> , 2011 , 53, 109-33	1.4	14
104	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
103	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
102	Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. <i>Nature</i> , 2010 , 464, 721-7	50.4	668
101	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

100	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
99	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
98	Automated tracking and analysis of centrosomes in early <i>Caenorhabditis elegans</i> embryos. <i>Bioinformatics</i> , 2010 , 26, i13-20	7.2	24
97	FRAP analysis of membrane-associated proteins: lateral diffusion and membrane-cytoplasmic exchange. <i>Biophysical Journal</i> , 2010 , 99, 2443-52	2.9	51
96	Quantitative interaction proteomics and genome-wide profiling of epigenetic histone marks and their readers. <i>Cell</i> , 2010 , 142, 967-80	56.2	579
95	Sororin mediates sister chromatid cohesion by antagonizing Wapl. <i>Cell</i> , 2010 , 143, 737-49	56.2	255
94	Systematic analysis of human protein complexes identifies chromosome segregation proteins. <i>Science</i> , 2010 , 328, 593-9	33.3	419
93	Centrosome size sets mitotic spindle length in <i>Caenorhabditis elegans</i> embryos. <i>Current Biology</i> , 2010 , 20, 353-8	6.3	140
92	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
91	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
90	HAUS, the 8-subunit human Augmin complex, regulates centrosome and spindle integrity. <i>Current Biology</i> , 2009 , 19, 816-26	6.3	186
89	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
88	Growth, fluctuation and switching at microtubule plus ends. <i>Nature Reviews Molecular Cell Biology</i> , 2009 , 10, 569-74	48.7	135
87	Germline P granules are liquid droplets that localize by controlled dissolution/condensation. <i>Science</i> , 2009 , 324, 1729-32	33.3	1476
86	EB1 recognizes the nucleotide state of tubulin in the microtubule lattice. <i>PLoS ONE</i> , 2009 , 4, e7585	3.7	119
85	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. <i>Nature Methods</i> , 2008 , 5, 409-15	21.6	484
84	The mammalian SPD-2 ortholog Cep192 regulates centrosome biogenesis. <i>Current Biology</i> , 2008 , 18, 136-41	6.3	143
83	Characterization of protein dynamics in asymmetric cell division by scanning fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2008 , 95, 5476-86	2.9	48

82	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
81	XMAP215 is a processive microtubule polymerase. <i>Cell</i> , 2008 , 132, 79-88	56.2	385
80	A protein domain-based interactome network for <i>C. elegans</i> early embryogenesis. <i>Cell</i> , 2008 , 134, 534-456.2	56.2	161
79	Cell cycle progression requires the CDC-48/UDF-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	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
77	Two-photon fluorescence imaging and correlation analysis applied to protein dynamics in <i>C. elegans</i> embryo 2008 ,		7
76	Stress generation and filament turnover during actin ring constriction. <i>PLoS ONE</i> , 2007 , 2, e696	3.7	88
75	Genome-scale RNAi profiling of cell division in human tissue culture cells. <i>Nature Cell Biology</i> , 2007 , 9, 1401-12	23.4	254
74	Microtubule polymerases and depolymerases. <i>Current Opinion in Cell Biology</i> , 2007 , 19, 31-5	9	230
73	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
72	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
71	Acto-myosin reorganization and PAR polarity in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2007 , 134, 1035-43.6	3.6	89
70	Functional interaction between phosphocoupling protein 2 and cytosolic chaperonin is essential for cytoskeletal protein function and cell cycle progression. <i>Molecular Biology of the Cell</i> , 2007 , 18, 2336-45	3.5	37
69	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
68	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
67	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
66	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
65	CDC-42 and RHO-1 coordinate acto-myosin 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

64	Yeast kinesin-8 depolymerizes microtubules in a length-dependent manner. <i>Nature Cell Biology</i> , 2006 , 8, 957-62	23.4	340
63	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
62	Centriole assembly in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2006 , 444, 619-23	50.4	306
61	Global and local control of microtubule destabilization promoted by a catastrophe kinesin MCAK/XKCM1. <i>Journal of Muscle Research and Cell Motility</i> , 2006 , 27, 107-14	3.5	17
60	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
59	Spindle positioning by cortical pulling forces. <i>Developmental Cell</i> , 2005 , 8, 461-5	10.2	168
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