

Edward H Egelman

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.

194
papers

12,655
citations

66
h-index

105
g-index

211
ext. papers

14,407
ext. citations

11.7
avg, IF

6.54
L-index

#	Paper	IF	Citations
194	Cryo-EM of Helical Polymers.. <i>Chemical Reviews</i> , 2022 ,	68.1	3
193	Phenol-soluble modulins PSM β and PSM α form nanotubes that are cross- β -amyloids.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2121586119	11.5	0
192	Distinct axial and lateral interactions within homologous filaments dictate the signaling specificity and order of the AIM2-ASC inflammasome. <i>Nature Communications</i> , 2021 , 12, 2735	17.4	6
191	: a New Realm for Archaeal Filamentous Viruses with Linear A-Form Double-Stranded DNA Genomes. <i>Journal of Virology</i> , 2021 , 95, e0067321	6.6	9
190	Deterministic chaos in the self-assembly of β -sheet nanotubes from an amphipathic oligopeptide. <i>Matter</i> , 2021 , 4, 3217-3231	12.7	14
189	Cryo-EM is a powerful tool, but helical applications can have pitfalls. <i>Soft Matter</i> , 2021 , 17, 3291-3293	3.6	4
188	Structural analysis of cross β -helical nanotubes provides insight into the designability of filamentous peptide nanomaterials. <i>Nature Communications</i> , 2021 , 12, 407	17.4	18
187	Artificial Intracellular Filaments. <i>Cell Reports Physical Science</i> , 2020 , 1,	6.1	37
186	Atomic structure of the flagellar filament reveals how β -Proteobacteria escaped Toll-like receptor 5 surveillance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16985-16991	11.5	16
185	Cryo-EM: Ice Is Nice, but Good Ice Can Be Hard to Find. <i>Biophysical Journal</i> , 2020 , 118, 1238-1239	2.9	7
184	Structural Determination of a Filamentous Chaperone to Fabricate Electronically Conductive Metalloprotein Nanowires. <i>ACS Nano</i> , 2020 , 14, 6559-6569	16.7	13
183	The structure of helical lipoprotein lipase reveals an unexpected twist in lipase storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10254-10264	11.5	13
182	Osteogenesis imperfecta mutations in plastin 3 lead to impaired calcium regulation of actin bundling. <i>Bone Research</i> , 2020 , 8, 21	13.3	7
181	Cryoelectron-Microscopic Structure of the pKpQIL Conjugative Pili from Carbapenem-Resistant <i>Klebsiella pneumoniae</i> . <i>Structure</i> , 2020 , 28, 1321-1328.e2	5.2	6
180	Structure of a filamentous virus uncovers familial ties within the archaeal virosphere. <i>Virus Evolution</i> , 2020 , 6, veaa023	3.7	11
179	The structures of two archaeal type IV pili illuminate evolutionary relationships. <i>Nature Communications</i> , 2020 , 11, 3424	17.4	7
178	Structures of filamentous viruses infecting hyperthermophilic archaea explain DNA stabilization in extreme environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19643-19652	11.5	14

177	Structure and assembly of archaeal viruses. <i>Advances in Virus Research</i> , 2020 , 108, 127-164	10.7	8
176	Molecular mechanism for NLRP6 inflammasome assembly and activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2052-2057	11.5	54
175	An extensively glycosylated archaeal pilus survives extreme conditions. <i>Nature Microbiology</i> , 2019 , 4, 1401-1410	26.6	21
174	Structure and Assembly of the Enterohemorrhagic Escherichia coli Type 4 Pilus. <i>Structure</i> , 2019 , 27, 1082-1093.e5	5.1	5
173	Structure of Microbial Nanowires Reveals Stacked Hemes that Transport Electrons over Micrometers. <i>Cell</i> , 2019 , 177, 361-369.e10	56.2	223
172	The AAA + ATPase TorsinA polymerizes into hollow helical tubes with 8.5 subunits per turn. <i>Nature Communications</i> , 2019 , 10, 3262	17.4	16
171	Ambidextrous helical nanotubes from self-assembly of designed helical hairpin motifs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14456-14464	11.5	22
170	A packing for A-form DNA in an icosahedral virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 22591-22597	11.5	17
169	Functional role of the type 1 pilus rod structure in mediating host-pathogen interactions. <i>ELife</i> , 2018 , 7,	8.9	37
168	Structural conservation in a membrane-enveloped filamentous virus infecting a hyperthermophilic acidophile. <i>Nature Communications</i> , 2018 , 9, 3360	17.4	18
167	Direct imaging and computational cryo-electron microscopy of ribbons and nanotubes. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 34, 100-113	7.6	5
166	Cryo-EM structure of the NLRC4 filament provides insights into how symmetric and asymmetric supramolecular structures drive inflammasome assembly. <i>Journal of Biological Chemistry</i> , 2018 , 293, 20240-20248	5.4	22
165	RosettaES: a sampling strategy enabling automated interpretation of difficult cryo-EM maps. <i>Nature Methods</i> , 2017 , 14, 797-800	21.6	84
164	Cryo-EM of bacterial pili and archaeal flagellar filaments. <i>Current Opinion in Structural Biology</i> , 2017 , 46, 31-37	8.1	16
163	Structure of the calcium-dependent type 2 secretion pseudopilus. <i>Nature Microbiology</i> , 2017 , 2, 1686-1695.e6	25.6	38
162	A structural model of flagellar filament switching across multiple bacterial species. <i>Nature Communications</i> , 2017 , 8, 960	17.4	63
161	Cryoelectron Microscopy Reconstructions of the Pseudomonas aeruginosa and Neisseria gonorrhoeae Type IV Pili at Sub-nanometer Resolution. <i>Structure</i> , 2017 , 25, 1423-1435.e4	5.2	58
160	Refined Cryo-EM Structure of the T4 Tail Tube: Exploring the Lowest Dose Limit. <i>Structure</i> , 2017 , 25, 1436-1441.e2	5.2	24

159	Structural basis of TIR-domain-assembly formation in MAL- and MyD88-dependent TLR4 signaling. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 743-751	17.6	82
158	Structural basis for high-affinity actin binding revealed by a β III-spectrin SCA5 missense mutation. <i>Nature Communications</i> , 2017 , 8, 1350	17.4	27
157	Model for a novel membrane envelope in a filamentous hyperthermophilic virus. <i>ELife</i> , 2017 , 6,	8.9	32
156	Resolution advances in cryo-EM enable application to drug discovery. <i>Current Opinion in Structural Biology</i> , 2016 , 41, 194-202	8.1	73
155	Archaeal flagellin combines a bacterial type IV pilin domain with an Ig-like domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10352-7	11.5	31
154	Cryo-EM Structure of Caspase-8 Tandem DED Filament Reveals Assembly and Regulation Mechanisms of the Death-Inducing Signaling Complex. <i>Molecular Cell</i> , 2016 , 64, 236-250	17.6	89
153	Structure of the Neisseria meningitidis Type IV pilus. <i>Nature Communications</i> , 2016 , 7, 13015	17.4	87
152	Structure of a Chaperone-Usher Pilus Reveals the Molecular Basis of Rod Uncoiling. <i>Cell</i> , 2016 , 164, 269-278	17.6	41
151	The Current Revolution in Cryo-EM. <i>Biophysical Journal</i> , 2016 , 110, 1008-12	2.9	76
150	Actin polymerization is stimulated by actin cross-linking protein palladin. <i>Biochemical Journal</i> , 2016 , 473, 383-96	3.8	17
149	Structure of the Bacterial Sex F Pilus Reveals an Assembly of a Stoichiometric Protein-Phospholipid Complex. <i>Cell</i> , 2016 , 166, 1436-1444.e10	56.2	67
148	Near-atomic resolution for one state of F-actin. <i>Structure</i> , 2015 , 23, 173-182	5.2	98
147	Structure of the type VI secretion system contractile sheath. <i>Cell</i> , 2015 , 160, 952-962	56.2	172
146	De novo protein structure determination from near-atomic-resolution cryo-EM maps. <i>Nature Methods</i> , 2015 , 12, 335-8	21.6	131
145	Archaeal actin from a hyperthermophile forms a single-stranded filament. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9340-5	11.5	18
144	Assembly-driven activation of the AIM2 foreign-dsDNA sensor provides a polymerization template for downstream ASC. <i>Nature Communications</i> , 2015 , 6, 7827	17.4	95
143	Rad51 Paralogs Remodel Pre-synaptic Rad51 Filaments to Stimulate Homologous Recombination. <i>Cell</i> , 2015 , 162, 271-286	56.2	95
142	The molecular basis for flexibility in the flexible filamentous plant viruses. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 642-4	17.6	45

141	Structure and assembly of the mouse ASC inflammasome by combined NMR spectroscopy and cryo-electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13237-42	11.5	100
140	Three-dimensional reconstruction of helical polymers. <i>Archives of Biochemistry and Biophysics</i> , 2015 , 581, 54-8	4.1	22
139	Virology. A virus that infects a hyperthermophile encapsidates A-form DNA. <i>Science</i> , 2015 , 348, 914-7	33.3	79
138	Unified polymerization mechanism for the assembly of ASC-dependent inflammasomes. <i>Cell</i> , 2014 , 156, 1193-1206	56.2	741
137	Direct interaction of actin filaments with F-BAR protein pacsin2. <i>EMBO Reports</i> , 2014 , 15, 1154-62	6.5	47
136	Molecular imprinting as a signal-activation mechanism of the viral RNA sensor RIG-I. <i>Molecular Cell</i> , 2014 , 55, 511-23	17.6	176
135	A PH domain in ACAP1 possesses key features of the BAR domain in promoting membrane curvature. <i>Developmental Cell</i> , 2014 , 31, 73-86	10.2	25
134	Identification of an actin binding surface on vinculin that mediates mechanical cell and focal adhesion properties. <i>Structure</i> , 2014 , 22, 697-706	5.2	38
133	Distinct docking and stabilization steps of the Pseudopilus conformational transition path suggest rotational assembly of type IV pilus-like fibers. <i>Structure</i> , 2014 , 22, 685-96	5.2	40
132	Ambiguities in helical reconstruction. <i>ELife</i> , 2014 , 3,	8.9	36
131	Organization of F-actin by Fesselin (avian smooth muscle synaptopodin 2). <i>Biochemistry</i> , 2013 , 52, 4955-61	9	9
130	Structural architecture of the CARMA1/Bcl10/MALT1 signalosome: nucleation-induced filamentous assembly. <i>Molecular Cell</i> , 2013 , 51, 766-79	17.6	123
129	The structure of the CS1 pilus of enterotoxigenic Escherichia coli reveals structural polymorphism. <i>Journal of Bacteriology</i> , 2013 , 195, 1360-70	3.5	15
128	Actin filaments as tension sensors. <i>Current Biology</i> , 2012 , 22, R96-101	6.3	123
127	Stepwise molecular display utilizing icosahedral and helical complexes of phage coat and decoration proteins in the development of robust nanoscale display vehicles. <i>Biomaterials</i> , 2012 , 33, 5628-37	15.6	29
126	MDA5 assembles into a polar helical filament on dsRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18437-41	11.5	91
125	Structure of the Vibrio cholerae Type IVb Pilus and stability comparison with the Neisseria gonorrhoeae type IVa pilus. <i>Journal of Molecular Biology</i> , 2012 , 418, 47-64	6.5	52
124	Filaments from Ignicoccus hospitalis show diversity of packing in proteins containing N-terminal type IV pilin helices. <i>Journal of Molecular Biology</i> , 2012 , 422, 274-81	6.5	30

123	Real-space processing of helical filaments in SPARX. <i>Journal of Structural Biology</i> , 2012 , 177, 302-13	3.4	29
122	Are ParM filaments polar or bipolar?. <i>Journal of Molecular Biology</i> , 2012 , 423, 482-5	6.5	5
121	Crystal structure of the phage T4 recombinase UvsX and its functional interaction with the T4 SF2 helicase UvsW. <i>Journal of Molecular Biology</i> , 2011 , 405, 65-76	6.5	19
120	Two modes of binding of DinI to RecA filament provide a new insight into the regulation of SOS response by DinI protein. <i>Journal of Molecular Biology</i> , 2011 , 408, 815-24	6.5	11
119	The N-terminal domains of myosin binding protein C can bind polymorphically to F-actin. <i>Journal of Molecular Biology</i> , 2011 , 412, 379-86	6.5	45
118	Remodeling of actin filaments by ADF/cofilin proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20568-72	11.5	158
117	Opening of tandem calponin homology domains regulates their affinity for F-actin. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 614-6	17.6	71
116	Structural polymorphism in F-actin. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 1318-23	17.6	148
115	Cryo-reconstructions of P22 polyheads suggest that phage assembly is nucleated by trimeric interactions among coat proteins. <i>Physical Biology</i> , 2010 , 7, 045004	3	24
114	Reconstruction of helical filaments and tubes. <i>Methods in Enzymology</i> , 2010 , 482, 167-83	1.7	90
113	ParA2, a <i>Vibrio cholerae</i> chromosome partitioning protein, forms left-handed helical filaments on DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4590-5	11.5	45
112	The structure of the <i>Salmonella typhimurium</i> type III secretion system needle shows divergence from the flagellar system. <i>Journal of Molecular Biology</i> , 2010 , 396, 1392-7	6.5	34
111	Mapping of drebrin binding site on F-actin. <i>Journal of Molecular Biology</i> , 2010 , 398, 542-54	6.5	41
110	Helical filaments of human Dmc1 protein on single-stranded DNA: a cautionary tale. <i>Journal of Molecular Biology</i> , 2010 , 401, 544-51	6.5	18
109	Reducing irreducible complexity: divergence of quaternary structure and function in macromolecular assemblies. <i>Current Opinion in Cell Biology</i> , 2010 , 22, 68-74	9	12
108	Loop 2 in <i>Saccharomyces cerevisiae</i> Rad51 protein regulates filament formation and ATPase activity. <i>Nucleic Acids Research</i> , 2009 , 37, 158-71	20.1	7
107	Structural polymorphism of the ParM filament and dynamic instability. <i>Structure</i> , 2009 , 17, 1253-64	5.2	34
106	Electron microscopy of helical filaments: rediscovering buried treasures in negative stain. <i>BioEssays</i> , 2009 , 31, 909-11	4.1	7

105	The structure of F-pili. <i>Journal of Molecular Biology</i> , 2009 , 385, 22-9	6.5	39
104	Cleavage of bacteriophage lambda cI repressor involves the RecA C-terminal domain. <i>Journal of Molecular Biology</i> , 2009 , 385, 779-87	6.5	27
103	The bipolar filaments formed by herpes simplex virus type 1 SSB/recombination protein (ICP8) suggest a mechanism for DNA annealing. <i>Journal of Molecular Biology</i> , 2009 , 386, 273-9	6.5	17
102	The RecB nuclease domain binds to RecA-DNA filaments: implications for filament loading. <i>Journal of Molecular Biology</i> , 2009 , 391, 269-74	6.5	9
101	Implications of the RecA structure. <i>F1000 Biology Reports</i> , 2009 , 1, 7		
100	Functional and structural basis for a bacteriophage homolog of human RAD52. <i>Current Biology</i> , 2008 , 18, 1142-6	6.3	51
99	Structure and disassembly of filaments formed by the ESCRT-III subunit Vps24. <i>Structure</i> , 2008 , 16, 1345-56	5.6	115
98	Divergence of quaternary structures among bacterial flagellar filaments. <i>Science</i> , 2008 , 320, 382-5	33.3	87
97	Actin hydrophobic loop 262-274 and filament nucleation and elongation. <i>Journal of Molecular Biology</i> , 2008 , 375, 793-801	6.5	11
96	Coronin-1A stabilizes F-actin by bridging adjacent actin protomers and stapling opposite strands of the actin filament. <i>Journal of Molecular Biology</i> , 2008 , 376, 607-13	6.5	42
95	The structure of an archaeal pilus. <i>Journal of Molecular Biology</i> , 2008 , 381, 456-66	6.5	41
94	Structural basis of membrane invagination by F-BAR domains. <i>Cell</i> , 2008 , 132, 807-17	56.2	427
93	High-resolution cryo-EM structure of the F-actin-fimbrin/plastin ABD2 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1494-8	11.5	94
92	Assembly of Weibel-Palade body-like tubules from N-terminal domains of von Willebrand factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 482-7	11.5	122
91	A comparative analysis of Dmc1 and Rad51 nucleoprotein filaments. <i>Nucleic Acids Research</i> , 2008 , 36, 4057-66	20.1	84
90	Problems in fitting high resolution structures into electron microscopic reconstructions. <i>HFSP Journal</i> , 2008 , 2, 324-31		8
89	Mapping the interaction of cofilin with subdomain 2 on actin. <i>Biochemistry</i> , 2007 , 46, 225-33	3.2	11
88	Stabilization of RAD51 nucleoprotein filaments by the C-terminal region of BRCA2. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 468-74	17.6	193

87	The structure of bacterial ParM filaments. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 921-6	17.6	66
86	Single-particle reconstruction from EM images of helical filaments. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 556-61	8.1	28
85	Stabilization of RAD-51-DNA filaments via an interaction domain in <i>Caenorhabditis elegans</i> BRCA2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8299-304	11.5	52
84	The iterative helical real space reconstruction method: surmounting the problems posed by real polymers. <i>Journal of Structural Biology</i> , 2007 , 157, 83-94	3.4	187
83	Actin structure and function: what we still do not understand. <i>Journal of Biological Chemistry</i> , 2007 , 282, 36133-7	5.4	76
82	The Rad51/RadA N-terminal domain activates nucleoprotein filament ATPase activity. <i>Structure</i> , 2006 , 14, 983-92	5.2	51
81	Structural polymorphism in bacterial EspA filaments revealed by cryo-EM and an improved approach to helical reconstruction. <i>Structure</i> , 2006 , 14, 1189-96	5.2	32
80	RecA assembly, one molecule at a time. <i>Structure</i> , 2006 , 14, 1600-2	5.2	2
79	Xin-repeats and nebulin-like repeats bind to F-actin in a similar manner. <i>Journal of Molecular Biology</i> , 2006 , 356, 714-23	6.5	22
78	The CH-domain of calponin does not determine the modes of calponin binding to F-actin. <i>Journal of Molecular Biology</i> , 2006 , 359, 478-85	6.5	35
77	The structure of a filamentous bacteriophage. <i>Journal of Molecular Biology</i> , 2006 , 361, 209-15	6.5	82
76	Type IV pilus structure by cryo-electron microscopy and crystallography: implications for pilus assembly and functions. <i>Molecular Cell</i> , 2006 , 23, 651-62	17.6	317
75	Structural polymorphism of <i>Methanothermobacter thermautotrophicus</i> MCM. <i>Journal of Molecular Biology</i> , 2005 , 346, 389-94	6.5	64
74	The Arg non-receptor tyrosine kinase modifies F-actin structure. <i>Journal of Molecular Biology</i> , 2005 , 346, 565-75	6.5	25
73	Refining the structure of the <i>Halobacterium salinarum</i> flagellar filament using the iterative helical real space reconstruction method: insights into polymorphism. <i>Journal of Molecular Biology</i> , 2005 , 346, 665-76	6.5	43
72	Atomic model of a myosin filament in the relaxed state. <i>Nature</i> , 2005 , 436, 1195-9	50.4	236
71	BRCA2 BRC motifs bind RAD51-DNA filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8537-42	11.5	111
70	Actin-destabilizing factors disrupt filaments by means of a time reversal of polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17664-8	11.5	68

69	The stalk region of dynamin drives the constriction of dynamin tubes. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 574-5	17.6	128
68	More insights into structural plasticity of actin binding proteins. <i>Structure</i> , 2004 , 12, 909-10	5.2	4
67	Acrosomal actin: twists and turns of a versatile filament. <i>Current Biology</i> , 2004 , 14, R959-61	6.3	5
66	Helical structure of the needle of the type III secretion system of <i>Shigella flexneri</i> . <i>Journal of Biological Chemistry</i> , 2003 , 278, 17103-7	5.4	152
65	Actin's prokaryotic homologs. <i>Current Opinion in Structural Biology</i> , 2003 , 13, 244-8	8.1	27
64	ATP-mediated conformational changes in the RecA filament. <i>Structure</i> , 2003 , 11, 187-96	5.2	133
63	A tale of two polymers: new insights into helical filaments. <i>Nature Reviews Molecular Cell Biology</i> , 2003 , 4, 621-30	48.7	38
62	Issues of resolution and polymorphism in single-particle reconstruction. <i>Journal of Structural Biology</i> , 2003 , 144, 162-71	3.4	35
61	Complexes of RecA with LexA and RecX differentiate between active and inactive RecA nucleoprotein filaments. <i>Journal of Molecular Biology</i> , 2003 , 333, 345-54	6.5	57
60	The location of ubiquitin in <i>Lethocerus arthrin</i> . <i>Journal of Molecular Biology</i> , 2003 , 325, 623-8	6.5	18
59	Do the utrophin tandem calponin homology domains bind F-actin in a compact or extended conformation?. <i>Journal of Molecular Biology</i> , 2003 , 331, 967-72	6.5	41
58	<i>Salmonella</i> SipA polymerizes actin by stapling filaments with nonglobular protein arms. <i>Science</i> , 2003 , 301, 1918-21	33.3	97
57	A DNA pairing-enhanced conformation of bacterial RecA proteins. <i>Journal of Biological Chemistry</i> , 2003 , 278, 52710-23	5.4	40
56	ADF/cofilin use an intrinsic mode of F-actin instability to disrupt actin filaments. <i>Journal of Cell Biology</i> , 2003 , 163, 1057-66	7.3	93
55	Each actin subunit has three nebulin binding sites: implications for steric blocking. <i>Current Biology</i> , 2002 , 12, 383-8	6.3	59
54	SV40 large T antigen hexamer structure: domain organization and DNA-induced conformational changes. <i>Current Biology</i> , 2002 , 12, 472-6	6.3	46
53	A new internal mode in F-actin helps explain the remarkable evolutionary conservation of actin's sequence and structure. <i>Current Biology</i> , 2002 , 12, 570-5	6.3	101
52	The <i>Methanobacterium thermoautotrophicum</i> MCM protein can form heptameric rings. <i>EMBO Reports</i> , 2002 , 3, 792-7	6.5	83

51	The utrophin actin-binding domain binds F-actin in two different modes: implications for the spectrin superfamily of proteins. <i>Journal of Cell Biology</i> , 2002 , 157, 243-51	7.3	75
50	Structure and function of Hib pili from Haemophilus influenzae type b. <i>Journal of Bacteriology</i> , 2002 , 184, 4868-74	3.5	28
49	Homologous-pairing activity of the Bacillus subtilis bacteriophage SPP1 replication protein G35P. <i>Journal of Biological Chemistry</i> , 2002 , 277, 35969-79	5.4	50
48	How does ATP hydrolysis control actin's associations?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10945-7	11.5	55
47	The hexameric ring structure of the Escherichia coli RuvB branch migration protein. <i>Journal of Molecular Biology</i> , 2002 , 319, 587-91	6.5	21
46	Flexibility of the rings: structural asymmetry in the DnaB hexameric helicase. <i>Journal of Molecular Biology</i> , 2002 , 321, 839-49	6.5	69
45	The bacterial protein SipA polymerizes G-actin and mimics muscle nebulin. <i>Nature Structural Biology</i> , 2002 , 9, 518-21		33
44	Bacterial conjugation: running rings around DNA. <i>Current Biology</i> , 2001 , 11, R103-5	6.3	5
43	Molecular evolution: actin's long lost relative found. <i>Current Biology</i> , 2001 , 11, R1022-4	6.3	15
42	Actin depolymerizing factor stabilizes an existing state of F-actin and can change the tilt of F-actin subunits. <i>Journal of Cell Biology</i> , 2001 , 153, 75-86	7.3	218
41	Archaeal RadA protein binds DNA as both helical filaments and octameric rings. <i>Journal of Molecular Biology</i> , 2001 , 314, 1077-85	6.5	82
40	Does a stretched DNA structure dictate the helical geometry of RecA-like filaments?. <i>Journal of Molecular Biology</i> , 2001 , 309, 539-42	6.5	46
39	The primase active site is on the outside of the hexameric bacteriophage T7 gene 4 helicase-primase ring. <i>Journal of Molecular Biology</i> , 2001 , 311, 951-6	6.5	28
38	Probing the structure of F-actin: cross-links constrain atomic models and modify actin dynamics. <i>Journal of Molecular Biology</i> , 2001 , 312, 95-106	6.5	51
37	Comparison of bacteriophage T4 UvsX and human Rad51 filaments suggests that RecA-like polymers may have evolved independently. <i>Journal of Molecular Biology</i> , 2001 , 312, 999-1009	6.5	35
36	Electron microscopic studies of the translin octameric ring. <i>Journal of Structural Biology</i> , 2001 , 135, 58-66	6.4	32
35	Binding of dystrophin's tandem calponin homology domain to F-actin is modulated by actin's structure. <i>Biophysical Journal</i> , 2001 , 80, 1926-31	2.9	18
34	Two conformations of G-actin related to two conformations of F-actin. <i>Results and Problems in Cell Differentiation</i> , 2001 , 32, 95-101	1.4	5

33	A robust algorithm for the reconstruction of helical filaments using single-particle methods. <i>Ultramicroscopy</i> , 2000 , 85, 225-34	3.1	394
32	The human Rad52 protein exists as a heptameric ring. <i>Current Biology</i> , 2000 , 10, 337-40	6.3	156
31	Visualization of two binding sites for the Escherichia coli UmuD Σ 2C complex (DNA pol V) on RecA-ssDNA filaments. <i>Journal of Molecular Biology</i> , 2000 , 297, 585-97	6.5	33
30	Three-dimensional reconstruction of transcription termination factor rho: orientation of the N-terminal domain and visualization of an RNA-binding site. <i>Journal of Molecular Biology</i> , 2000 , 299, 1279-87	6.5	44
29	F-actin retains a memory of angular order. <i>Biophysical Journal</i> , 2000 , 78, 2180-5	2.9	20
28	Biochemical and electron microscopic image analysis of the hexameric E1 helicase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 4447-58	5.4	101
27	Identification of a defined epitope on the surface of the active RecA-DNA filament using a monoclonal antibody and three-dimensional reconstruction. <i>Journal of Molecular Biology</i> , 1998 , 283, 985-92	6.5	16
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