Michel O Steinmetz

List of Publications by Year
in descending order

185 papers	15,820 citations	13827 67 h-index	19690 117 g-index
209 all docs	209 docs citations	209 times ranked	16192 citing authors

#	Article	IF	Citations
1	Tracking the ends: a dynamic protein network controls the fate of microtubule tips. Nature Reviews Molecular Cell Biology, 2008, 9, 309-322.	16.1	908
2	Control of microtubule organization and dynamics: two ends in the limelight. Nature Reviews Molecular Cell Biology, 2015, 16, 711-726.	16.1	733
3	Structural basis for the regulation of tubulin by vinblastine. Nature, 2005, 435, 519-522.	13.7	651
4	An EB1-Binding Motif Acts as a Microtubule Tip Localization Signal. Cell, 2009, 138, 366-376.	13.5	594
5	Molecular Mechanism of Action of Microtubule-Stabilizing Anticancer Agents. Science, 2013, 339, 587-590.	6.0	436
6	STIM1 Is a MT-Plus-End-Tracking Protein Involved in Remodeling of the ER. Current Biology, 2008, 18, 177-182.	1.8	378
7	Microtubule-Targeting Agents: Strategies To Hijack the Cytoskeleton. Trends in Cell Biology, 2018, 28, 776-792.	3.6	340
8	Mammalian end binding proteins control persistent microtubule growth. Journal of Cell Biology, 2009, 184, 691-706.	2.3	331
9	Structural Basis of the 9-Fold Symmetry of Centrioles. Cell, 2011, 144, 364-375.	13.5	317
10	ELM--the database of eukaryotic linear motifs. Nucleic Acids Research, 2012, 40, D242-D251.	6.5	290
11	The Novel Microtubule-Destabilizing Drug BAL27862 Binds to the Colchicine Site of Tubulin with Distinct Effects on Microtubule Organization. Journal of Molecular Biology, 2014, 426, 1848-1860.	2.0	240
12	COMP-Ang1: A designed angiopoietin-1 variant with nonleaky angiogenic activity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5547-5552.	3.3	236
13	Microtubule +TIPs at a glance. Journal of Cell Science, 2010, 123, 3415-3419.	1.2	236
14	A new tubulin-binding site and pharmacophore for microtubule-destabilizing anticancer drugs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13817-13821.	3.3	229
15	Isotope-Tagged Cross-Linking Reagents. A New Tool in Mass Spectrometric Protein Interaction Analysis. Analytical Chemistry, 2001, 73, 1927-1934.	3.2	209
16	Motor Neuron Disease-Associated Mutant Vesicle-Associated Membrane Protein-Associated Protein (VAP) B Recruits Wild-Type VAPs into Endoplasmic Reticulum-Derived Tubular Aggregates. Journal of Neuroscience, 2007, 27, 9801-9815.	1.7	203
17	Serial millisecond crystallography for routine room-temperature structure determination at synchrotrons. Nature Communications, 2017, 8, 542.	5.8	203
18	Combined CRISPRi/a-Based Chemical Genetic Screens Reveal that Rigosertib Is a Microtubule-Destabilizing Agent. Molecular Cell, 2017, 68, 210-223.e6.	4.5	197

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19	A Proteome-wide Screen for Mammalian SxIP Motif-Containing Microtubule Plus-End Tracking Proteins. Current Biology, 2012, 22, 1800-1807.	1.8	192
20	Structural basis of tubulin tyrosination by tubulin tyrosine ligase. Journal of Cell Biology, 2013, 200, 259-270.	2.3	189
21	Structure-function relationship of CAP-Gly domains. Nature Structural and Molecular Biology, 2007, 14, 959-967.	3.6	176
22	Cortexillins, Major Determinants of Cell Shape and Size, Are Actin-Bundling Proteins with a Parallel Coiled-Coil Tail. Cell, 1996, 86, 631-642.	13.5	172
23	An autonomous folding unit mediates the assembly of two-stranded coiled coils. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13419-13424.	3.3	166
24	Exploring amyloid formation by a de novo design. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4435-4440.	3.3	166
25	Structural Basis of cis- and trans-Combretastatin Binding to Tubulin. CheM, 2017, 2, 102-113.	5.8	164
26	Key Interaction Modes of Dynamic +TIP Networks. Molecular Cell, 2006, 23, 663-671.	4.5	160
27	Structural Basis of Microtubule Stabilization by Laulimalide and Peloruside A. Angewandte Chemie - International Edition, 2014, 53, 1621-1625.	7.2	154
28	Structural basis for the specific inhibition of protein kinase G, a virulence factor of Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12151-12156.	3.3	152
29	Microtubule minus-end regulation at spindle poles by an ASPM–katanin complex. Nature Cell Biology, 2017, 19, 480-492.	4.6	147
30	Structural insights into the EB1?APC interaction. EMBO Journal, 2005, 24, 261-269.	3.5	138
31	Structure of a VEGF–VEGF receptor complex determined by electron microscopy. Nature Structural and Molecular Biology, 2007, 14, 249-250.	3.6	137
32	Oligomerization and Multimerization Are Critical for Angiopoietin-1 to Bind and Phosphorylate Tie2. Journal of Biological Chemistry, 2005, 280, 20126-20131.	1.6	134
33	The Caenorhabditis elegans septin complex is nonpolar. EMBO Journal, 2007, 26, 3296-3307.	3.5	130
34	In Vitro Reconstitution of the Functional Interplay between MCAK and EB3 at Microtubule Plus Ends. Current Biology, 2010, 20, 1717-1722.	1.8	130
35	Actin–microtubule coordination at growing microtubule ends. Nature Communications, 2014, 5, 4778.	5.8	126
36	Structural Basis of Microtubule Destabilization by Potent Auristatin Anti-Mitotics. PLoS ONE, 2016, 11, e0160890.	1.1	121

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37	Fast native-SAD phasing for routine macromolecular structure determination. Nature Methods, 2015, 12, 131-133.	9.0	120
38	Molecular basis of coiled-coil formation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7062-7067.	3.3	116
39	SLAIN2 links microtubule plus endâ€“tracking proteins and controls microtubule growth in interphase. Journal of Cell Biology, 2011, 193, 1083-1099.	2.3	116
40	The coiled-coil trigger site of the rod domain of cortexillin I unveils a distinct network of interhelical and intrahelical salt bridges. Structure, 2000, 8, 223-230.	1.6	114
41	MAP7 family proteins regulate kinesin-1 recruitment and activation. Journal of Cell Biology, 2019, 218, 1298-1318.	2.3	114
42	A Correlative Analysis of Actin Filament Assembly, Structure, and Dynamics. Journal of Cell Biology, 1997, 138, 559-574.	2.3	113
43	A distinct 14 residue site triggers coiled-coil formation in cortexillin I. EMBO Journal, 1998, 17, 1883-1891.	3.5	113
44	Native Architecture of the Centriole Proximal Region Reveals Features Underlying Its 9-Fold Radial Symmetry. Current Biology, 2013, 23, 1620-1628.	1.8	113
45	Association of the Leukocyte Plasma Membrane with the Actin Cytoskeleton through Coiled Coil-mediated Trimeric Coronin 1 Molecules. Molecular Biology of the Cell, 2005, 16, 2786-2798.	0.9	112
46	CLASP Suppresses Microtubule Catastrophes through a Single TOG Domain. Developmental Cell, 2018, 46, 40-58.e8.	3.1	110
47	Capturing protein tails by CAP-Gly domains. Trends in Biochemical Sciences, 2008, 33, 535-545.	3.7	106
48	Structural basis for recognition of synaptic vesicle protein 2C by botulinum neurotoxin A. Nature, 2014, 505, 108-111.	13.7	103
49	End-binding proteins sensitize microtubules to the action of microtubule-targeting agents. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8900-8905.	3.3	101
50	Reconstitution of a hierarchical +TIP interaction network controlling microtubule end tracking of dynein. Nature Cell Biology, 2014, 16, 804-811.	4.6	100
51	Configurational entropy elucidates the role of salt-bridge networks in protein thermostability. Protein Science, 2007, 16, 1349-1359.	3.1	99
52	Actin: From Cell Biology to Atomic Detail. Journal of Structural Biology, 1997, 119, 295-320.	1.3	98
53	Automated unrestricted multigene recombineering for multiprotein complex production. Nature Methods, 2009, 6, 447-450.	9.0	98
54	Termination of Protofilament Elongation by Eribulin Induces Lattice Defects that Promote Microtubule Catastrophes. Current Biology, 2016, 26, 1713-1721.	1.8	97

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55	Op18/stathmin caps a kinked protofilament-like tubulin tetramer. EMBO Journal, 2000, 19, 572-580.	3.5	92
56	13C, 15N Resonance Assignment of Parts of the HET-s Prion Protein in its Amyloid Form. Journal of Biomolecular NMR, 2006, 34, 75-87.	1.6	91
57	Quinazolinone-Based Anticancer Agents: Synthesis, Antiproliferative SAR, Antitubulin Activity, and Tubulin Co-crystal Structure. Journal of Medicinal Chemistry, 2018, 61, 1031-1044.	2.9	91
58	Evaluating atomic models of F-actin with an undecagold-tagged phalloidin derivative. Journal of Molecular Biology, 1998, 276, 1-6.	2.0	90
59	Centriolar CPAP/SAS-4 Imparts Slow Processive Microtubule Growth. Developmental Cell, 2016, 37, 362-376.	3.1	90
60	A conserved trimerization motif controls the topology of short coiled coils. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13891-13896.	3.3	88
61	Deconvolution of Buparlisibâ€™s mechanism of action defines specific PI3K and tubulin inhibitors for therapeutic intervention. Nature Communications, 2017, 8, 14683.	5.8	88
62	A structural model for microtubule minus-end recognition and protection by CAMSAP proteins. Nature Structural and Molecular Biology, 2017, 24, 931-943.	3.6	86
63	Kinesin-Binding Protein Controls Microtubule Dynamics and Cargo Trafficking by Regulating Kinesin Motor Activity. Current Biology, 2016, 26, 849-861.	1.8	82
64	EB1 interacts with outwardly curved and straight regions of the microtubule lattice. Nature Cell Biology, 2016, 18, 1102-1108.	4.6	81
65	Structure and thermodynamics of the tubulinâ€“stathmin interaction. Journal of Structural Biology, 2007, 158, 137-147.	1.3	75
66	Regulation of Microtubule Dynamic Instability in Vitro by Differentially Phosphorylated Stathmin. Journal of Biological Chemistry, 2009, 284, 15640-15649.	1.6	73
67	Solidâ€state NMR Spectroscopy Reveals that E.â€…coli Inclusion Bodies of HETâ€s(218â€“289) are Amyloids. Angewandte Chemie - International Edition, 2009, 48, 4858-4860.	7.2	73
68	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centrioleÂarchitecture. Nature Cell Biology, 2016, 18, 393-403.	4.6	73
69	Suppression of Microtubule Dynamic Instability by the +TIP Protein EB1 and Its Modulation by the CAP-Gly Domain of p150Glued. Biochemistry, 2008, 47, 779-786.	1.2	69
70	Polymerization and structure of nucleotide-free actin filaments 1 1Edited by W. Baumeister. Journal of Molecular Biology, 2000, 295, 517-526.	2.0	68
71	Domain analysis of cortexillin I: actin-bundling, PIP2-binding and the rescue of cytokinesis. EMBO Journal, 1999, 18, 5274-5284.	3.5	67
72	Microtubule minus-end regulation at a glance. Journal of Cell Science, 2019, 132, .	1.2	67

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73	Molecular basis of coiled-coil oligomerization-state specificity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19850-19855.	3.3	66
74	Pironetin Binds Covalently to Î±Cys316 and Perturbs a Major Loop and Helix of Î±-Tubulin to Inhibit Microtubule Formation. Journal of Molecular Biology, 2016, 428, 2981-2988.	2.0	64
75	A missense mutation in the PISA domain of HsSAS-6 causes autosomal recessive primary microcephaly in a large consanguineous Pakistani family. Human Molecular Genetics, 2014, 23, 5940-5949.	1.4	63
76	Insights into EB1 structure and the role of its C-terminal domain for discriminating microtubule tips from the lattice. Molecular Biology of the Cell, 2011, 22, 2912-2923.	0.9	59
77	Caenorhabditis elegans centriolar protein SAS-6 forms a spiral that is consistent with imparting a ninefold symmetry. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11373-11378.	3.3	54
78	Polymorphism in an Amyloidâ€Like Fibrilâ€Forming Model Peptide. Angewandte Chemie - International Edition, 2008, 47, 5842-5845.	7.2	53
79	Identification of Chlamydomonas Central Core Centriolar Proteins Reveals a Role for Human WDR90 in Ciliogenesis. Current Biology, 2017, 27, 2486-2498.e6.	1.8	53
80	Phosphorylation disrupts the central helix in Op18/stathmin and suppresses binding to tubulin. EMBO Reports, 2001, 2, 505-510.	2.0	52
81	Kinesin-4 KIF21B is a potent microtubule pausing factor. ELife, 2017, 6, .	2.8	51
82	Antivascular and antitumor properties of the tubulin-binding chalcone TUB091. Oncotarget, 2017, 8, 14325-14342.	0.8	50
83	Molecular Insights into Mammalian End-binding Protein Heterodimerization. Journal of Biological Chemistry, 2010, 285, 5802-5814.	1.6	48
84	Localizing Chemical Groups while Imaging Single Native Proteins by High-Resolution Atomic Force Microscopy. Nano Letters, 2014, 14, 2957-2964.	4.5	48
85	An Intrahelical Salt Bridge within the Trigger Site Stabilizes the GCN4 Leucine Zipper. Journal of Biological Chemistry, 2001, 276, 13685-13688.	1.6	47
86	Structural Basis of Formation of the Microtubule Minus-End-Regulating CAMSAP-Katanin Complex. Structure, 2018, 26, 375-382.e4.	1.6	47
87	Insights into Peroxisome Function from the Structure of PEX3 in Complex with a Soluble Fragment of PEX19. Journal of Biological Chemistry, 2010, 285, 25410-25417.	1.6	46
88	Control of Intrinsically Disordered Stathmin by Multisite Phosphorylation*. Journal of Biological Chemistry, 2006, 281, 16078-16083.	1.6	45
89	Sequence Determinants of a Microtubule Tip Localization Signal (MtLS). Journal of Biological Chemistry, 2012, 287, 28227-28242.	1.6	44
90	Taxanes convert regions of perturbed microtubule growth into rescue sites. Nature Materials, 2020, 19, 355-365.	13.3	44

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91	Comprehensive Analysis of Binding Sites in Tubulin. Angewandte Chemie - International Edition, 2021, 60, 13331-13342.	7.2	44
92	Structural model for differential cap maturation at growing microtubule ends. ELife, 2020, 9, .	2.8	44
93	A Robust, GFP-Orthogonal Photoswitchable Inhibitor Scaffold Extends Optical Control over the Microtubule Cytoskeleton. Cell Chemical Biology, 2021, 28, 228-241.e6.	2.5	43
94	Thermodynamics of the Op18/Stathmin-Tubulin Interaction. Journal of Biological Chemistry, 2003, 278, 38926-38934.	1.6	42
95	The synthetic diazonamide DZ-2384 has distinct effects on microtubule curvature and dynamics without neurotoxicity. Science Translational Medicine, 2016, 8, 365ra159.	5.8	42
96	Data-collection strategy for challenging native SAD phasing. Acta Crystallographica Section D: Structural Biology, 2016, 72, 421-429.	1.1	42
97	High-affinity ligands of the colchicine domain in tubulin based on a structure-guided design. Scientific Reports, 2018, 8, 4242.	1.6	42
98	Structural basis of tubulin detyrosination by the vasohibinâ€“SVBP enzyme complex. Nature Structural and Molecular Biology, 2019, 26, 571-582.	3.6	42
99	Interaction between Actin and the Effector Peptide of MARCKS-related Protein. Journal of Biological Chemistry, 2000, 275, 20873-20879.	1.6	41
100	De novo design of a two-stranded coiled-coil switch peptide. Journal of Structural Biology, 2006, 155, 146-153.	1.3	41
101	Laminin chain assembly is regulated by specific coiled-coil interactions. Journal of Structural Biology, 2010, 170, 398-405.	1.3	41
102	A fluorescence anisotropy assay to discover and characterize ligands targeting the maytansineÂsite of tubulin. Nature Communications, 2018, 9, 2106.	5.8	41
103	Automated seamless DNA co-transformation cloning with direct expression vectors applying positive or negative insert selection. BMC Biotechnology, 2010, 10, 56.	1.7	39
104	Short Linear Sequence Motif LxxPTPh Targets Diverse Proteins to Growing Microtubule Ends. Structure, 2017, 25, 924-932.e4.	1.6	37
105	GEF-H1 Signaling upon Microtubule Destabilization Is Required for Dendritic Cell Activation and Specific Anti-tumor Responses. Cell Reports, 2019, 28, 3367-3380.e8.	2.9	37
106	Structure, assembly, and dynamics of actin filaments in situ and in vitro. , 1999, 47, 38-50.		36
107	Interaction of mammalian end binding proteins with CAP-Gly domains of CLIP-170 and p150glued. Journal of Structural Biology, 2012, 177, 160-167.	1.3	36
108	Structural determinants of microtubule minus end preference in CAMSAP CKK domains. Nature Communications, 2019, 10, 5236.	5.8	36

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109	Structure of the Extracellular Domain of Tie Receptor Tyrosine Kinases and Localization of the Angiopoietin-binding Epitope. Journal of Biological Chemistry, 2006, 281, 28408-28414.	1.6	35
110	Atomic Models of De Novo Designed ccÎ²-Met Amyloid-Like Fibrils. Journal of Molecular Biology, 2008, 376, 898-912.	2.0	34
111	Structure, Thermodynamics, and Kinetics of Plinabulin Binding to Two Tubulin Isotypes. CheM, 2019, 5, 2969-2986.	5.8	33
112	Surface tensiometry of phase separated protein and polymer droplets by the sessile drop method. Soft Matter, 2021, 17, 1655-1662.	1.2	32
113	End Binding Proteins Are Obligatory Dimers. PLoS ONE, 2013, 8, e74448.	1.1	32
114	Methods of NMR structure refinement: molecular dynamics simulations improve the agreement with measured NMR data of a C-terminal peptide of GCN4-p1. Journal of Biomolecular NMR, 2010, 47, 221-235.	1.6	31
115	Biophysical and Structural Characterization of the Centriolar Protein Cep104 Interaction Network. Journal of Biological Chemistry, 2016, 291, 18496-18504.	1.6	31
116	Structure-activity relationships, biological evaluation and structural studies of novel pyrrolonaphthoxazepines as antitumor agents. European Journal of Medicinal Chemistry, 2019, 162, 290-320.	2.6	31
117	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity. ELife, 2020, 9, .	2.8	31
118	Structural Basis of Microtubule Stabilization by Discodermolide. ChemBioChem, 2017, 18, 905-909.	1.3	30
119	Structural Basis of Noscapine Activation for Tubulin Binding. Journal of Medicinal Chemistry, 2020, 63, 8495-8501.	2.9	30
120	Mechanisms of Motor-Independent Membrane Remodeling Driven by Dynamic Microtubules. Current Biology, 2020, 30, 972-987.e12.	1.8	30
121	An atomic model of crystalline actin tubes: combining electron microscopy with X-ray crystallography. Journal of Molecular Biology, 1998, 278, 703-711.	2.0	28
122	The Human Centriolar Protein CEP135 Contains a Two-Stranded Coiled-Coil Domain Critical for Microtubule Binding. Structure, 2016, 24, 1358-1371.	1.6	27
123	Structural basis for misregulation of kinesin KIF21A autoinhibition by CFEOM1 disease mutations. Scientific Reports, 2016, 6, 30668.	1.6	26
124	Advances in long-wavelength native phasing at X-ray free-electron lasers. IUCrJ, 2020, 7, 965-975.	1.0	25
125	In Vitro Reconstitution of Dynamic Microtubules Interacting with Actin Filament Networks. Methods in Enzymology, 2014, 540, 301-320.	0.4	24
126	Structural basis of katanin p60:p80 complex formation. Scientific Reports, 2017, 7, 14893.	1.6	24

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127	VISAGE Reveals a Targetable Mitotic Spindle Vulnerability in Cancer Cells. Cell Systems, 2019, 9, 74-92.e8.	2.9	24
128	Crystal Structure of the Cyclostreptin-Tubulin Adduct: Implications for Tubulin Activation by Taxane-Site Ligands. International Journal of Molecular Sciences, 2019, 20, 1392.	1.8	24
129	In Vivo Photocontrol of Microtubule Dynamics and Integrity, Migration and Mitosis, by the Potent GFP-Imaging-Compatible Photoswitchable Reagents SBTubA4P and SBTub2M. Journal of the American Chemical Society, 2022, 144, 5614-5628.	6.6	24
130	Remote control of microtubule plus-end dynamics and function from the minus-end. ELife, 2019, 8, .	2.8	23
131	Isolation, Electron Microscopic Imaging, and 3-D Visualization of Native Cardiac Thin Myofilaments. Journal of Structural Biology, 1999, 126, 98-104.	1.3	22
132	Structural Determinants of the Dictyostatin Chemotype for Tubulin Binding Affinity and Antitumor Activity Against Taxane- and Epothilone-Resistant Cancer Cells. ACS Omega, 2016, 1, 1192-1204.	1.6	22
133	Pharmaceutical-Grade Rigosertib Is a Microtubule-Destabilizing Agent. Molecular Cell, 2020, 79, 191-198.e3.	4.5	22
134	Rat GTP cyclohydrolase I is a homodecameric protein complex containing high-affinity calcium-binding sites 1 1Edited by W. Baumeister. Journal of Molecular Biology, 1998, 279, 189-199.	2.0	21
135	Cooperative Stabilization of Microtubule Dynamics by EB1 and CLIP-170 Involves Displacement of Stably Bound P_i at Microtubule Ends. Biochemistry, 2012, 51, 3021-3030.	1.2	20
136	Microtubule End Binding: EBs Sense the Guanine Nucleotide State. Current Biology, 2011, 21, R283-R285.	1.8	19
137	Structure-Function Relationship of the Bik1-Bim1 Complex. Structure, 2018, 26, 607-618.e4.	1.6	18
138	Molecular-Dynamics Simulations of C- and N-Terminal Peptide Derivatives of GCN4-p1 in Aqueous Solution. Chemistry and Biodiversity, 2005, 2, 1086-1104.	1.0	17
139	Drosophila Stathmins Bind Tubulin Heterodimers with High and Variable Stoichiometries. Journal of Biological Chemistry, 2010, 285, 11667-11680.	1.6	17
140	Molecular basis of Kar9-Bim1 complex function during mating and spindle positioning. Molecular Biology of the Cell, 2016, 27, 3729-3745.	0.9	17
141	MARCKS-Related Protein Binds to Actin without Significantly Affecting Actin Polymerization or Network Structure. Journal of Structural Biology, 2000, 131, 217-224.	1.3	16
142	High-level Expression and Purification of a Designed Angiopoietin-1 Chimeric Protein, COMP-Ang1, Produced in Chinese Hamster Ovary Cells. Protein Journal, 2008, 27, 319-326.	0.7	16
143	Crystal Structures of the Human Doublecortin C- and N-terminal Domains in Complex with Specific Antibodies. Journal of Biological Chemistry, 2016, 291, 16292-16306.	1.6	16
144	The mechanism of kinesin inhibition by kinesin-binding protein. ELife, 2020, 9, .	2.8	15

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145	Inhibiting parasite proliferation using a rationally designed antiâ€tubulin agent. EMBO Molecular Medicine, 2021, 13, e13818.	3.3	14
146	Probing the Structure and Dynamics of Proteins by Combining Molecular Dynamics Simulations and Experimental NMR Data. Journal of Chemical Theory and Computation, 2012, 8, 3430-3444.	2.3	13
147	Centriole length control. Current Opinion in Structural Biology, 2021, 66, 89-95.	2.6	13
148	Preclinical and Early Clinical Development of PTC596, a Novel Small-Molecule Tubulin-Binding Agent. Molecular Cancer Therapeutics, 2021, 20, 1846-1857.	1.9	13
149	Rational Design of a Novel Tubulin Inhibitor with a Unique Mechanism of Action. Angewandte Chemie - International Edition, 2022, 61, .	7.2	13
150	Polymerization, three-dimensional structure and mechanical properties of Dictyostelium versus rabbit muscle actin filaments. Journal of Molecular Biology, 2000, 303, 171-184.	2.0	11
151	Exploring the trigger sequence of the GCN4 coiledâ€coil: Biased molecular dynamics resolves apparent inconsistencies in NMR measurements. Protein Science, 2010, 19, 2462-2474.	3.1	11
152	Crystal Structure of a Heterotetrameric Katanin p60:p80 Complex. Structure, 2019, 27, 1375-1383.e3.	1.6	11
153	Influence of the effector peptide of MARCKS-related protein on actin polymerization: a kinetic analysis. Biophysical Chemistry, 2000, 85, 169-177.	1.5	10
154	Cep120 promotes microtubule formation through a unique tubulin binding C2 domain. Journal of Structural Biology, 2018, 203, 62-70.	1.3	10
155	Sustainable Syntheses of (â^)-Jerantinines A & E and Structural Characterisation of the Jerantinine-Tubulin Complex at the Colchicine Binding Site. Scientific Reports, 2018, 8, 10617.	1.6	10
156	Novel fragment-derived colchicine-site binders as microtubule-destabilizing agents. European Journal of Medicinal Chemistry, 2022, 241, 114614.	2.6	10
157	Quinolin-6-Yloxyacetamides Are Microtubule Destabilizing Agents That Bind to the Colchicine Site of Tubulin. International Journal of Molecular Sciences, 2017, 18, 1336.	1.8	9
158	Tetrahydroisoquinoline Sulfamates as Potent Microtubule Disruptors: Synthesis, Antiproliferative and Antitubulin Activity of Dichlorobenzyl-Based Derivatives, and a Tubulin Cocrystal Structure. ACS Omega, 2019, 4, 755-764.	1.6	9
159	Interaction between theCaenorhabditis eleganscentriolar protein SAS-5 and microtubules facilitates organelle assembly. Molecular Biology of the Cell, 2018, 29, 722-735.	0.9	8
160	Crystallization and Preliminary X-Ray Diffraction Analysis of the 190-Ã…-Long Coiled-Coil Dimerization Domain of the Actin-Bundling Protein Cortexillin I fromDictyostelium discoideum. Journal of Structural Biology, 1998, 122, 293-296.	1.3	7
161	Exploring the Conserved Water Site and Hydration of a Coiledâ€Coil Trimerisation Motif: A MD Simulation Study. ChemBioChem, 2008, 9, 1749-1756.	1.3	7
162	Influence of 63Ser Phosphorylation and Dephosphorylation on the Structure of the Stathmin Helical Nucleation Sequence: A Molecular Dynamics Study. Biochemistry, 2012, 51, 8455-8463.	1.2	7

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163	Comprehensive Analysis of Binding Sites in Tubulin. Angewandte Chemie, 2021, 133, 13443-13454.	1.6	7
164	1,3â€Benzodioxoleâ€Modified Noscapine Analogues: Synthesis, Antiproliferative Activity, and Tubulinâ€Bound Structure. ChemMedChem, 2021, 16, 2882-2894.	1.6	6
165	Design of a Coiled-Coil-based Model Peptide System to Explore the Fundamentals of Amyloid Fibril Formation. International Journal of Peptide Research and Therapeutics, 2005, 11, 43-52.	0.9	5
166	Structure and regulation of the microtubule plus-end tracking protein Kar9. Structure, 2021, 29, 1266-1278.e4.	1.6	5
167	Imaging biological matter across dimensions: from cells to molecules and atoms. FASEB Journal, 1999, 13, S195-200.	0.2	4
168	Structural insights into the EB1â€“APC interaction. EMBO Journal, 2005, 24, 872-872.	3.5	4
169	Optochemistry to control the microtubuleÂcytoskeleton. EMBO Journal, 2015, 34, 2114-2116.	3.5	4
170	Combinatorial use of disulfide bridges and native sulfur-SAD phasing for rapid structure determination of coiled-coils. Bioscience Reports, 2018, 38, .	1.1	4
171	Structural Basis of Colchicine-Site targeting Acylhydrazones active against Multidrug-Resistant Acute Lymphoblastic Leukemia. IScience, 2019, 21, 95-109.	1.9	4
172	Conformational Properties of the Chemotherapeutic Drug Analogue Epothilone A: How to Model a Flexible Protein Ligand Using Scarcely Available Experimental Data. Journal of Chemical Information and Modeling, 2019, 59, 2218-2230.	2.5	4
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