## Maya Topf

## List of Publications by Year in descending order

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Μάνα Τορε

#	Article	IF	CITATIONS
1	Structural mass spectrometry decodes domain interaction and dynamics of the full-length Human Histone Deacetylase 2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2022, 1870, 140759.	2.3	0
2	The pore conformation of lymphocyte perforin. Science Advances, 2022, 8, eabk3147.	10.3	10
3	Stoichiometry-Selective Antagonism of α4β2 Nicotinic Acetylcholine Receptors by Fluoroquinolone Antibiotics. ACS Chemical Neuroscience, 2022, 13, 1805-1817.	3.5	3
4	Assessment of protein–protein interfaces in cryo-EM derived assemblies. Nature Communications, 2021, 12, 3399.	12.8	20
5	Cryo-EM structure of a microtubule-bound parasite kinesin motor and implications for its mechanism and inhibition. Journal of Biological Chemistry, 2021, 297, 101063.	3.4	13
6	TopoStats – A program for automated tracing of biomolecules from AFM images. Methods, 2021, 193, 68-79.	3.8	23
7	Computational models in the service of Xâ€ray and <scp>cryoâ€</scp> electron microscopy structure determination. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1633-1646.	2.6	37
8	Target highlights in <scp>CASP14</scp> : Analysis of models by structure providers. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1647-1672.	2.6	27
9	<scp>Cryoâ€EM</scp> targets in <scp>CASP14</scp> . Proteins: Structure, Function and Bioinformatics, 2021, 89, 1949-1958.	2.6	11
10	Critical assessment of methods of protein structure prediction (CASP)—Round <scp>XIV</scp> . Proteins: Structure, Function and Bioinformatics, 2021, 89, 1607-1617.	2.6	281
11	<i>TEMPy</i> 2: a Python library with improved 3D electron microscopy density-fitting and validation workflows. Acta Crystallographica Section D: Structural Biology, 2021, 77, 41-47.	2.3	32
12	Automated Modeling and Validation of Protein Complexes in Cryo-EM Maps. Methods in Molecular Biology, 2021, 2215, 189-223.	0.9	2
13	The prefusion structure of herpes simplex virus glycoprotein B. Science Advances, 2020, 6, .	10.3	50
14	<i>KMT2B</i> -related disorders: expansion of the phenotypic spectrum and long-term efficacy of deep brain stimulation. Brain, 2020, 143, 3242-3261.	7.6	57
15	Combining Information from Crosslinks and Monolinks in the Modeling of Protein Structures. Structure, 2020, 28, 1061-1070.e3.	3.3	17
16	Comparing Cryo-EM Reconstructions and Validating Atomic Model Fit Using Difference Maps. Journal of Chemical Information and Modeling, 2020, 60, 2552-2560.	5.4	29
17	Structure of Microtubule-Trapped Human Kinesin-5 and Its Mechanism of Inhibition Revealed Using Cryoelectron Microscopy. Structure, 2020, 28, 450-457.e5.	3.3	22
18	Modelling structures in cryo-EM maps. Current Opinion in Structural Biology, 2019, 58, 105-114.	5.7	53

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19	Cryoâ€electron microscopy targets in CASP13: Overview and evaluation of results. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1128-1140.	2.6	21
20	Structural transitions during the scaffolding-driven assembly of a viral capsid. Nature Communications, 2019, 10, 4840.	12.8	21
21	Critical assessment of methods of protein structure prediction (CASP)—Round XIII. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1011-1020.	2.6	380
22	Target highlights in CASP13: Experimental target structures through the eyes of their authors. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1037-1057.	2.6	12
23	Exome sequencing identifies variants in FKBP4 that are associated with recurrent fetal loss in humans. Human Molecular Genetics, 2019, 28, 3466-3474.	2.9	13
24	Protein interactions and consensus clustering analysis uncover insights into herpesvirus virion structure and function relationships. PLoS Biology, 2019, 17, e3000316.	5.6	18
25	Frequency and phenotypic spectrum of <i>KMT2B</i> dystonia in childhood: A singleâ€center cohort study. Movement Disorders, 2019, 34, 1516-1527.	3.9	55
26	Modeling Protein Monomers and Complexes using Restraints from Crosslinking Mass Spectrometry. Biophysical Journal, 2019, 116, 330a.	0.5	0
27	The Cryo-EM Structure and Activity of Kinesin-5 from Plasmodium falciparum: Mechanistic Lessons from a Parasite Kinesin. Biophysical Journal, 2019, 116, 308a.	0.5	0
28	Conserved Central Intraviral Protein Interactome of the <i>Herpesviridae</i> Family. MSystems, 2019, 4, .	3.8	4
29	Cover Image, Volume 87, Issue 12. Proteins: Structure, Function and Bioinformatics, 2019, 87, C4.	2.6	0
30	Mapping Aldehyde Dehydrogenase 1A1 Activity using an [ <sup>18</sup> F]Substrateâ€Based Approach. Chemistry - A European Journal, 2019, 25, 2345-2351.	3.3	2
31	Genetic diversity of CHC22 clathrin impacts its function in glucose metabolism. ELife, 2019, 8, .	6.0	22
32	Diversity of Nicotinic Acetylcholine Receptor Positive Allosteric Modulators Revealed by Mutagenesis and a Revised Structural Model. Molecular Pharmacology, 2018, 93, 128-140.	2.3	39
33	Disease-associated missense mutations in GluN2B subunit alter NMDA receptor ligand binding and ion channel properties. Nature Communications, 2018, 9, 957.	12.8	58
34	Clinical and molecular characterization of <i>KCNT1</i> -related severe early-onset epilepsy. Neurology, 2018, 90, e55-e66.	1.1	89
35	CryoEM reveals how the complement membrane attack complex ruptures lipid bilayers. Nature Communications, 2018, 9, 5316.	12.8	83
36	Analyses of Tissue Culture Adaptation of Human Herpesvirus-6A by Whole Genome Deep Sequencing Redefines the Reference Sequence and Identifies Virus Entry Complex Changes. Viruses, 2018, 10, 16.	3.3	7

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37	Structural Model for Preferential Microtubule Minus End Binding by CAMSAP CKK Domains. Biophysical Journal, 2018, 114, 507a-508a.	0.5	0
38	Jwalk and MNXL web server: model validation using restraints from crosslinking mass spectrometry. Bioinformatics, 2018, 34, 3584-3585.	4.1	23
39	Modeling Protein Complexes Using Restraints from Crosslinking Mass Spectrometry. Structure, 2018, 26, 1015-1024.e2.	3.3	50
40	Identification by virtual screening and functional characterisation of novel positive and negative allosteric modulators of the α7 nicotinic acetylcholine receptor. Neuropharmacology, 2018, 139, 194-204.	4.1	14
41	Mosaic RAS/MAPK variants cause sporadic vascular malformations which respond to targeted therapy. Journal of Clinical Investigation, 2018, 128, 1496-1508.	8.2	191
42	Improved metrics for comparing structures of macromolecular assemblies determined by 3D electron-microscopy. Journal of Structural Biology, 2017, 199, 12-26.	2.8	56
43	Unravelling the Mechanism of Membrane Attack Complex Pore Closure. Biophysical Journal, 2017, 112, 335a.	0.5	0
44	Mutations in the histone methyltransferase gene KMT2B cause complex early-onset dystonia. Nature Genetics, 2017, 49, 223-237.	21.4	186
45	A structural model for microtubule minus-end recognition and protection by CAMSAP proteins. Nature Structural and Molecular Biology, 2017, 24, 931-943.	8.2	86
46	Structural basis of human kinesin-8 function and inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9539-E9548.	7.1	48
47	Structural pathway of regulated substrate transfer and threading through an Hsp100 disaggregase. Science Advances, 2017, 3, e1701726.	10.3	112
48	The Role of Disulfide Bond Replacements in Analogues of the Tarantula Toxin ProTx-II and Their Effects on Inhibition of the Voltage-Gated Sodium Ion Channel Na <sub>v</sub> 1.7. Journal of the American Chemical Society, 2017, 139, 13063-13075.	13.7	41
49	Integrative modelling of cellular assemblies. Current Opinion in Structural Biology, 2017, 46, 102-109.	5.7	15
50	Disruption of a Structurally Important Extracellular Element in the Glycine Receptor Leads to Decreased Synaptic Integration and Signaling Resulting in Severe Startle Disease. Journal of Neuroscience, 2017, 37, 7948-7961.	3.6	15
51	The divergent mitotic kinesin MKLP2 exhibits atypical structure and mechanochemistry. ELife, 2017, 6, .	6.0	39
52	HVint: A Strategy for Identifying Novel Protein-Protein Interactions in Herpes Simplex Virus Type 1. Molecular and Cellular Proteomics, 2016, 15, 2939-2953.	3.8	17
53	The Importance of Non-accessible Crosslinks and Solvent Accessible Surface Distance in Modeling Proteins with Restraints From Crosslinking Mass Spectrometry. Molecular and Cellular Proteomics, 2016, 15, 2491-2500.	3.8	79
54	Refinement of atomic models in high resolution EM reconstructions using Flex-EM and local assessment. Methods, 2016, 100, 42-49.	3.8	101

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55	Two distinct trimeric conformations of natively membrane-anchored full-length herpes simplex virus 1 glycoprotein B. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4176-4181.	7.1	93
56	Genetic and functional analyses demonstrate a role for abnormal glycinergic signaling in autism. Molecular Psychiatry, 2016, 21, 936-945.	7.9	85
57	γ-TEMPy: Simultaneous Fitting of Components in 3D-EM Maps of Their Assembly Using a Genetic Algorithm. Structure, 2015, 23, 2365-2376.	3.3	34
58	Collaborative Computational Project for Electron cryo-Microscopy. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 123-126.	2.5	84
59	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. Structure, 2015, 23, 1156-1167.	3.3	159
60	Conformational Changes during Pore Formation by the Perforin-Related Protein Pleurotolysin. PLoS Biology, 2015, 13, e1002049.	5.6	114
61	Mutations in SLC12A5 in epilepsy of infancy with migrating focal seizures. Nature Communications, 2015, 6, 8038.	12.8	160
62	Novel Missense Mutation A789V in IQSEC2 Underlies X-Linked Intellectual Disability in the MRX78 Family. Frontiers in Molecular Neuroscience, 2015, 8, 85.	2.9	23
63	<i>TEMPy</i> : a Python library for assessment of three-dimensional electron microscopy density fits. Journal of Applied Crystallography, 2015, 48, 1314-1323.	4.5	75
64	Photo-antagonism of the GABAA receptor. Nature Communications, 2014, 5, 4454.	12.8	22
65	Combined approaches to flexible fitting and assessment in virus capsids undergoing conformational change. Journal of Structural Biology, 2014, 185, 427-439.	2.8	23
66	Allosteric signalling in the outer membrane translocation domain of PapC usher. ELife, 2014, 3, .	6.0	18
67	Conserved mechanisms of microtubule-stimulated ADP release, ATP binding, and force generation in transport kinesins. ELife, 2014, 3, e03680.	6.0	100
68	Stepwise visualization of membrane pore formation by suilysin, a bacterial cholesterol-dependent cytolysin. ELife, 2014, 3, e04247.	6.0	145
69	Conformational States of Macromolecular Assemblies Explored by Integrative Structure Calculation. Structure, 2013, 21, 1500-1508.	3.3	29
70	Distinct phenotypes in zebrafish models of human startle disease. Neurobiology of Disease, 2013, 60, 139-151.	4.4	32
71	Novel missense mutations in the glycine receptor Î <sup>2</sup> subunit gene (GLRB) in startle disease. Neurobiology of Disease, 2013, 52, 137-149.	4.4	54
72	The Structure of Herpesvirus Fusion Glycoprotein B-Bilayer Complex Reveals the Protein-Membrane and Lateral Protein-Protein Interaction. Structure, 2013, 21, 1396-1405.	3.3	47

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73	Changes in Apaf-1 Conformation That Drive Apoptosome Assembly. Biochemistry, 2013, 52, 2319-2327.	2.5	53
74	Structure of a translocation signal domain mediating conjugative transfer by type <scp>IV</scp> secretion systems. Molecular Microbiology, 2013, 89, 324-333.	2.5	40
75	RIBFIND: a web server for identifying rigid bodies in protein structures and to aid flexible fitting into cryo EM maps. Bioinformatics, 2012, 28, 2391-2393.	4.1	19
76	Mutations in the GlyT2 Gene (SLC6A5) Are a Second Major Cause of Startle Disease. Journal of Biological Chemistry, 2012, 287, 28975-28985.	3.4	84
77	A Novel Dominant Hyperekplexia Mutation Y705C Alters Trafficking and Biochemical Properties of the Presynaptic Glycine Transporter GlyT2. Journal of Biological Chemistry, 2012, 287, 28986-29002.	3.4	42
78	Molecular mechanisms of glycine transporter GlyT2 mutations in startle disease. Biological Chemistry, 2012, 393, 283-289.	2.5	7
79	Finding rigid bodies in protein structures: Application to flexible fitting into cryoEM maps. Journal of Structural Biology, 2012, 177, 520-531.	2.8	33
80	ATP-Triggered Conformational Changes Delineate Substrate-Binding and -Folding Mechanics of the GroEL Chaperonin. Cell, 2012, 149, 113-123.	28.9	160
81	Structural Analysis of Coxsackievirus A7 Reveals Conformational Changes Associated with Uncoating. Journal of Virology, 2012, 86, 7207-7215.	3.4	41
82	Identification of congenital muscular dystonia 2 associated with an inherited GlyT2 defect in Belgian Blue cattle from the United Kingdom. Animal Genetics, 2012, 43, 267-270.	1.7	8
83	Exploring the spatial and temporal organization of a cell's proteome. Journal of Structural Biology, 2011, 173, 483-496.	2.8	36
84	Scoring functions for cryoEM density fitting. Journal of Structural Biology, 2011, 174, 333-343.	2.8	65
85	Structure of the Drosophila Apoptosome at 6.9ÂÃ Resolution. Structure, 2011, 19, 128-140.	3.3	73
86	Structure of an Apoptosome-Procaspase-9 CARD Complex. Structure, 2010, 18, 571-583.	3.3	118
87	RNA channelling by the eukaryotic exosome. EMBO Reports, 2010, 11, 936-942.	4.5	68
88	Mechanism of eIF6-mediated Inhibition of Ribosomal Subunit Joining. Journal of Biological Chemistry, 2010, 285, 14848-14851.	3.4	107
89	CHOYCE: a web server for constrained homology modelling with cryoEM maps. Bioinformatics, 2010, 26, 1673-1674.	4.1	7
90	TUBA1A mutations cause wide spectrum lissencephaly (smooth brain) and suggest that multiple neuronal migration pathways converge on alpha tubulins. Human Molecular Genetics, 2010, 19, 2817-2827.	2.9	176

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91	A fast mathematical programming procedure for simultaneous fitting of assembly components into cryoEM density maps. Bioinformatics, 2010, 26, i261-i268.	4.1	21
92	Comprehensive Molecular Structure of the Eukaryotic Ribosome. Structure, 2009, 17, 1591-1604.	3.3	140
93	Inferential Optimization for Simultaneous Fitting of Multiple Components into a CryoEM Map of Their Assembly. Journal of Molecular Biology, 2009, 388, 180-194.	4.2	117
94	Mechanism of lid closure in the eukaryotic chaperonin TRiC/CCT. Nature Structural and Molecular Biology, 2008, 15, 746-753.	8.2	91
95	A new tRNA intermediate revealed on the ribosome during EF4-mediated back-translocation. Nature Structural and Molecular Biology, 2008, 15, 910-915.	8.2	65
96	Protein Structure Fitting and Refinement Guided by Cryo-EM Density. Structure, 2008, 16, 295-307.	3.3	334
97	Structure of the Mammalian 80S Ribosome at 8.7 Ã Resolution. Structure, 2008, 16, 535-548.	3.3	135
98	The genetics of hyperekplexia: more than startle!. Trends in Genetics, 2008, 24, 439-447.	6.7	187
99	Crystallographic Conformers of Actin in a Biologically Active Bundle of Filaments. Journal of Molecular Biology, 2008, 375, 331-336.	4.2	37
100	Mapping a molecular link between allosteric inhibition and activation of the glycine receptor. Nature Structural and Molecular Biology, 2008, 15, 1084-1093.	8.2	33
101	Integrating Diverse Data for Structure Determination of Macromolecular Assemblies. Annual Review of Biochemistry, 2008, 77, 443-477.	11.1	204
102	Subnanometer-resolution electron cryomicroscopy-based domain models for the cytoplasmic region of skeletal muscle RyR channel. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9610-9615.	7.1	106
103	Refinement of Protein Structures by Iterative Comparative Modeling and CryoEM Density Fitting. Journal of Molecular Biology, 2006, 357, 1655-1668.	4.2	104
104	Combining electron microscopy and comparative protein structure modeling. Current Opinion in Structural Biology, 2005, 15, 578-585.	5.7	73
105	Structural characterization of components of protein assemblies by comparative modeling and electron cryo-microscopy. Journal of Structural Biology, 2005, 149, 191-203.	2.8	92
106	A structural perspective on protein–protein interactions. Current Opinion in Structural Biology, 2004, 14, 313-324.	5.7	260
107	PREDICT modeling and in-silico screening for G-protein coupled receptors. Proteins: Structure, Function and Bioinformatics, 2004, 57, 51-86.	2.6	99
108	Theoretical Studies on the Deacylation Step of Serine Protease Catalysis in the Gas Phase, in Solution, and in Elastase. Journal of the American Chemical Society, 2004, 126, 14631-14641.	13.7	54

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109	The Unusual Bifunctional Catalysis of Epimerization and Desaturation by Carbapenem Synthase. Journal of the American Chemical Society, 2004, 126, 9932-9933.	13.7	29
110	Crystal Structure of Carbapenem Synthase (CarC). Journal of Biological Chemistry, 2003, 278, 20843-20850.	3.4	90
111	Ab Initio QM/MM Dynamics Simulation of the Tetrahedral Intermediate of Serine Proteases:Â Insights into the Active Site Hydrogen-Bonding Network. Journal of the American Chemical Society, 2002, 124, 14780-14788.	13.7	81
112	Molecular dynamics simulations of the acyl-enzyme and the tetrahedral intermediate in the deacylation step of serine proteases. Proteins: Structure, Function and Bioinformatics, 2002, 47, 357-369.	2.6	23
113	Quantum mechanical/molecular mechanical study of three stationary points along the deacylation step of the catalytic mechanism of elastase. Theoretical Chemistry Accounts, 2001, 106, 146-151.	1.4	13
114	Modeling the 3D structure of GPCRs from sequence. Medicinal Research Reviews, 2001, 21, 472-483.	10.5	67
115	Combining Information from Crosslinks and Monolinks in the Modelling of Protein Structures. SSRN Electronic Journal, 0, , .	0.4	0