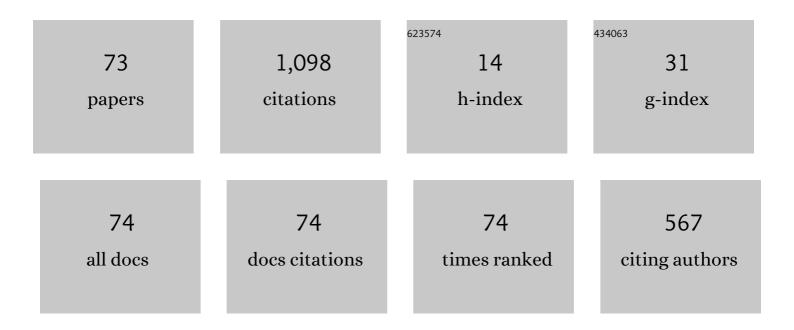


## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Seeing the Herpesvirus Capsid at 8.5 Å . Science, 2000, 288, 877-880.	6.0	298
2	Assembly of VP26 in herpes simplex virus-1 inferred from structures of wild-type and recombinant capsids. Nature Structural and Molecular Biology, 1995, 2, 1026-1030.	3.6	152
3	A Machine Learning Approach for the Identification of Protein Secondary Structure Elements from Electron Cryoâ€Microscopy Density Maps. Biopolymers, 2012, 97, 698-708.	1.2	87
4	Deep convolutional neural networks for detecting secondary structures in protein density maps from cryo-electron microscopy. , 2016, 2016, 41-46.		47
5	Tracing Beta Strands Using StrandTwister from Cryo-EM Density Maps at Medium Resolutions. Structure, 2014, 22, 1665-1676.	1.6	39
6	Beta-sheet Detection and Representation from Medium Resolution Cryo-EM Density Maps. , 2013, , .		35
7	RANKING VALID TOPOLOGIES OF THE SECONDARY STRUCTURE ELEMENTS USING A CONSTRAINT GRAPH. Journal of Bioinformatics and Computational Biology, 2011, 09, 415-430.	0.3	33
8	Solving the Secondary Structure Matching Problem in Cryo-EM De Novo Modeling Using a Constrained <formula formulatype="inline"><tex Notation="TeX"&gt;\$K\$</tex </formula> -Shortest Path Graph Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 419-430.	1.9	33
9	Finding and using local symmetry in identifying lower domain movements in hexon subunits of the herpes simplex virus type 1 B capsid. Journal of Molecular Biology, 2001, 309, 903-914.	2.0	20
10	An Effective Computational Method Incorporating Multiple Secondary Structure Predictions in Topology Determination for Cryo-EM Images. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 578-586.	1.9	19
11	Numerical geometry of map and model assessment. Journal of Structural Biology, 2015, 192, 255-261.	1.3	18
12	Native secondary structure topology has near minimum contact energy among all possible geometrically constrained topologies. Proteins: Structure, Function and Bioinformatics, 2009, 77, 159-173.	1.5	17
13	Structure prediction for the helical skeletons detected from the low resolution protein density map. BMC Bioinformatics, 2010, 11, S44.	1.2	17
14	From Isotropic to Anisotropic Side Chain Representations: Comparison of Three Models for Residue Contact Estimation. PLoS ONE, 2011, 6, e19238.	1.1	17
15	Building the initial chain of the proteins through de novo modeling of the cryo-electron microscopy volume data at the medium resolutions. , 2012, , .		17
16	Intensity-Based Skeletonization of CryoEM Gray-Scale Images Using a True Segmentation-Free Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 1289-1298.	1.9	17
17	DERIVING TOPOLOGY AND SEQUENCE ALIGNMENT FOR THE HELIX SKELETON IN LOW-RESOLUTION PROTEIN DENSITY MAPS. Journal of Bioinformatics and Computational Biology, 2008, 06, 183-201.	0.3	16
18	Tracing Actin Filament Bundles in Three-Dimensional Electron Tomography Density Maps of Hair Cell Stereocilia. Molecules, 2018, 23, 882.	1.7	15

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19	A cryo-tomography-based volumetric model of the actin core of mouse vestibular hair cell stereocilia lacking plastin 1. Journal of Structural Biology, 2020, 210, 107461.	1.3	14
20	Constrained cyclic coordinate descent for cryo-EM images at medium resolutions: beyond the protein loop closure problem. Robotica, 2016, 34, 1777-1790.	1.3	13
21	An effective convergence independent loop closure method using Forward-Backward Cyclic Coordinate Descent. International Journal of Data Mining and Bioinformatics, 2009, 3, 346.	0.1	12
22	IMPROVED EFFICIENCY IN CRYO-EM SECONDARY STRUCTURE TOPOLOGY DETERMINATION FROM INACCURATE DATA. Journal of Bioinformatics and Computational Biology, 2012, 10, 1242006.	0.3	12
23	Cylindrical Similarity Measurement for Helices in Medium-Resolution Cryo-Electron Microscopy Density Maps. Journal of Chemical Information and Modeling, 2020, 60, 2644-2650.	2.5	12
24	A Tool for Segmentation of Secondary Structures in 3D Cryo-EM Density Map Components Using Deep Convolutional Neural Networks. Frontiers in Bioinformatics, 2021, 1, .	1.0	12
25	Modeling Beta-Traces for Beta-Barrels from Cryo-EM Density Maps. BioMed Research International, 2017, 2017, 1-9.	0.9	11
26	A Parallel Algorithm for Helix Mapping Between 3D and 1D Protein Structure Using the Length Constraints. Lecture Notes in Computer Science, 2004, , 746-756.	1.0	11
27	A Dynamic Programming Algorithm for Finding the Optimal Placement of a Secondary Structure Topology in Cryo-EM Data. Journal of Computational Biology, 2015, 22, 837-843.	0.8	10
28	Correction of Missing-Wedge Artifacts in Filamentous Tomograms by Template-Based Constrained Deconvolution. Journal of Chemical Information and Modeling, 2020, 60, 2626-2633.	2.5	9
29	Comparing an Atomic Model or Structure to a Corresponding Cryo-electron Microscopy Image at the Central Axis of a Helix. Journal of Computational Biology, 2017, 24, 52-67.	0.8	8
30	Understanding on the residue contact network using the logâ€normal cluster model and the multilevel wheel diagram. Biopolymers, 2010, 93, 904-916.	1.2	7
31	A distance―and orientationâ€dependent energy function of amino acid key blocks. Biopolymers, 2014, 101, 681-692.	1.2	7
32	Reduction of the secondary structure topological space through direct estimation of the contact energy formed by the secondary structures. BMC Bioinformatics, 2009, 10, S40.	1.2	5
33	TomoSim: Simulation of Filamentous Cryo-Electron Tomograms. , 2021, , .		5
34	Estimating loop length from CryoEM images at medium resolutions. BMC Structural Biology, 2013, 13, S5.	2.3	4
35	Preface: Selected Articles from 2015 Computational Structural Bioinformatics Workshop. Journal of Computational Biology, 2017, 24, 1-1.	0.8	4
36	Exploratory Studies Detecting Secondary Structures in Medium Resolution 3D Cryo-EM Images Using		4

Deep Convolutional Neural Networks. , 2018, , .

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37	An Investigation of Atomic Structures Derived from X-ray Crystallography and Cryo-Electron Microscopy Using Distal Blocks of Side-Chains. Molecules, 2018, 23, 610.	1.7	4
38	Orientations of beta-strand traces and near maximum twist. , 2014, , .		3
39	DERIVING PROTEIN STRUCTURE TOPOLOGY FROM THE HELIX SKELETON IN LOW RESOLUTION DENSITY MAP USING ROSETTA. , 2007, , .		3
40	3D reconstruction from cryo-EM projection images using two spherical embeddings. Communications Biology, 2022, 5, 304.	2.0	3
41	A Constrained K-shortest Path Algorithm to Rank the Topologies of the Protein Secondary Structure Elements Detected in CryoEM Volume Maps. , 2013, , .		2
42	Combining image processing and modeling to generate traces of beta-strands from cryo-EM density images of beta-barrels. , 2014, 2014, 3941-4.		2
43	<i>Special Issue</i> Preface: The 9th Computational Structural Bioinformatics Workshop. Journal of Computational Biology, 2018, 25, 1-2.	0.8	2
44	A Histogram-based Outlier Profile for Atomic Structures Derived from Cryo-Electron Microscopy. , 2019, , .		2
45	Using Curriculum Learning in Pattern Recognition of 3-dimensional Cryo-electron Microscopy Density Maps. , 2020, , .		2
46	Incorporating constraints from low resolution density map in ab initio structure prediction using Rosetta. , 2007, , .		1
47	A Constraint Logic Programming approach to associate 1D and 3D structural components for large protein complexes. International Journal of Data Mining and Bioinformatics, 2007, 1, 352.	0.1	1
48	An approximate robotics algorithm to assemble a loop between two helices. , 2007, , .		1
49	A Constraint Dynamic Graph Approach to Identify the Secondary Structure Topology from cryoEM Density Data in Presence of Errors. , 2011, , .		1
50	CryoEM skeleton length estimation using a decimated curve. , 2012, , .		1
51	The 6th Computational Structural Bioinformatics Workshop. BMC Structural Biology, 2013, 13, 11.	2.3	1
52	Comparison of an atomic model and its cryo-EM image at the central axis of a helix. , 2015, 2015, 1253-1259.		1
53	Deriving Protein Backbone Using Traces Extracted from Density Maps at Medium Resolutions. Lecture Notes in Computer Science, 2015, , 1-11.	1.0	1
54	Challenges in matching secondary structures in cryo-EM: An exploration. , 2016, 2016, 1714-1719.		1

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55	Detection of Protein Secondary Structure Patterns from 3D Cryo-TEM Maps at Medium Resolution - Combining the Best of SSETracer and VolTrac. Microscopy and Microanalysis, 2017, 23, 242-243.	0.2	1
56	Quantification of Twist from the Central Lines of β-Strands. Journal of Computational Biology, 2018, 25, 114-120.	0.8	1
57	Using Combined Features to Analyze Atomic Structures derived from Cryo-EM Density Maps. , 2018, , .		1
58	Outlier Profiles of Atomic Structures Derived from X-ray Crystallography and from Cryo-Electron Microscopy. Molecules, 2020, 25, 1540.	1.7	1
59	Tracing Filaments in Simulated and Experimental 3D Cryo-Electron Tomography Maps Using a Fast Dynamic Programming Algorithm. Microscopy and Microanalysis, 2021, 27, 3236-3237.	0.2	1
60	Detection of Secondary Structures from 3D Protein Images of Medium Resolutions and its Challenges. Lecture Notes in Computer Science, 2015, , 147-155.	1.0	1
61	A Pattern Recognition Tool for Medium-Resolution Cryo-EM Density Maps and Low-Resolution Cryo-ET Density Maps. Lecture Notes in Computer Science, 2018, , 233-238.	1.0	1
62	Effect of sidechain anisotropy on residue contact determination. , 2009, , .		0
63	The 3rd Computational Structural Bioinformatics Workshop. BMC Structural Biology, 2010, 10, 11.	2.3	0
64	A distance and orientation dependent potential energy function with cluster energy. , 2011, , .		0
65	Construction of protein backbone pieces using segment-based FBCCD and Cryo-EM skeleton. , 2014, , .		0
66	The 7th Computational Structural Bioinformatics Workshop. Journal of Computational Biology, 2015, 22, 785-786.	0.8	0
67	Selecting near-native structures from decoys using maximal cliques. , 2016, , .		0
68	Analysis of ß-strand Twist from the 3-dimensional Image of a Protein. , 2017, , .		0
69	An Iterative Bézier Method for Fitting Beta-sheet Component of a Cryo-EM Density Map. Computational and Mathematical Biophysics, 2017, 5, 31-39.	0.6	0
70	Interpreting Cytoskeletal Filaments in Cryo-Electron Tomograms with Shape-Constrained Deconvolution. Microscopy and Microanalysis, 2021, 27, 72-73.	0.2	0
71	USING THE LENGTH CONSTRAINTS OF HELIX TO EVALUATE PROTEIN SECONDARY STRUCTURE PREDICTION FOR HELIX. , 2005, , .		0
72	Combine Cryo-EM Density Map and Residue Contact for Protein Structure Prediction. , 2020, , .		0

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#	Article	IF	CITATIONS
73	Combining Cryo-EM Density Map and Residue Contact for Protein Secondary Structure Topologies. Molecules, 2021, 26, 7049.	1.7	Ο