

Florence Tama

List of Publications by Year in descending order

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76
papers

5,208
citations

126907

33
h-index

88630

70
g-index

79
all docs

79
docs citations

79
times ranked

4268
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformational change of proteins arising from normal mode calculations. <i>Protein Engineering, Design and Selection</i> , 2001, 14, 1-6.	2.1	796
2	Building-block approach for determining low-frequency normal modes of macromolecules. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 41, 1-7.	2.6	421
3	Dynamic reorganization of the functionally active ribosome explored by normal mode analysis and cryo-electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9319-9323.	7.1	332
4	SYMMETRY, FORM, AND SHAPE: Guiding Principles for Robustness in Macromolecular Machines. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2006, 35, 115-133.	18.3	251
5	Structure of the <i>E. coli</i> protein-conducting channel bound to a translating ribosome. <i>Nature</i> , 2005, 438, 318-324.	27.8	243
6	Normal mode based flexible fitting of high-resolution structure into low-resolution experimental data from cryo-EM. <i>Journal of Structural Biology</i> , 2004, 147, 315-326.	2.8	230
7	Flexible Multi-scale Fitting of Atomic Structures into Low-resolution Electron Density Maps with Elastic Network Normal Mode Analysis. <i>Journal of Molecular Biology</i> , 2004, 337, 985-999.	4.2	217
8	Exploring Global Distortions of Biological Macromolecules and Assemblies from Low-resolution Structural Information and Elastic Network Theory. <i>Journal of Molecular Biology</i> , 2002, 321, 297-305.	4.2	193
9	The Mechanism and Pathway of pH Induced Swelling in Cowpea Chlorotic Mottle Virus. <i>Journal of Molecular Biology</i> , 2002, 318, 733-747.	4.2	190
10	Diversity and Identity of Mechanical Properties of Icosahedral Viral Capsids Studied with Elastic Network Normal Mode Analysis. <i>Journal of Molecular Biology</i> , 2005, 345, 299-314.	4.2	177
11	Mega-Dalton Biomolecular Motion Captured from Electron Microscopy Reconstructions. <i>Journal of Molecular Biology</i> , 2003, 326, 485-492.	4.2	113
12	Removal of Divalent Cations Induces Structural Transitions in Red Clover Necrotic Mosaic Virus , Revealing a Potential Mechanism for RNA Release. <i>Journal of Virology</i> , 2006, 80, 10395-10406.	3.4	106
13	Three-dimensional structure of the anthrax toxin pore inserted into lipid nanodiscs and lipid vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3453-3457.	7.1	102
14	Flexible Fitting of High-Resolution X-Ray Structures into Cryoelectron Microscopy Maps Using Biased Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2008, 95, 5692-5705.	0.5	101
15	Cell-based screen identifies a new potent and highly selective CK2 inhibitor for modulation of circadian rhythms and cancer cell growth. <i>Science Advances</i> , 2019, 5, eaau9060.	10.3	93
16	Iterative Elastic 3D-to-2D Alignment Method Using Normal Modes for Studying Structural Dynamics of Large Macromolecular Complexes. <i>Structure</i> , 2014, 22, 496-506.	3.3	90
17	Excited states of ribosome translocation revealed through integrative molecular modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18943-18948.	7.1	89
18	The 13Å... Structure of a Chaperonin GroELâ€“Protein Substrate Complex by Cryo-electron Microscopy. <i>Journal of Molecular Biology</i> , 2005, 348, 219-230.	4.2	65

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19	Normal-Mode Flexible Fitting of High-Resolution Structure of Biological Molecules toward One-Dimensional Low-Resolution Data. <i>Biophysical Journal</i> , 2008, 94, 1589-1599.	0.5	62
20	Macromolecular structures probed by combining single-shot free-electron laser diffraction with synchrotron coherent X-ray imaging. <i>Nature Communications</i> , 2014, 5, 3798.	12.8	61
21	Isoform-selective regulation of mammalian cryptochromes. <i>Nature Chemical Biology</i> , 2020, 16, 676-685.	8.0	61
22	Electrostatic properties of cowpea chlorotic mottle virus and cucumber mosaic virus capsids. <i>Biopolymers</i> , 2006, 82, 106-120.	2.4	59
23	Molecular Model of a Soluble Guanylyl Cyclase Fragment Determined by Small-Angle X-ray Scattering and Chemical Cross-Linking. <i>Biochemistry</i> , 2013, 52, 1568-1582.	2.5	56
24	Bipartite anchoring of SCREAM enforces stomatal initiation by coupling MAP kinases to SPEECHLESS. <i>Nature Plants</i> , 2019, 5, 742-754.	9.3	55
25	Role of Computational Methods in Going beyond X-ray Crystallography to Explore Protein Structure and Dynamics. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3401.	4.1	52
26	Dynamics at the serine loop underlie differential affinity of cryptochromes for CLOCK:BMAL1 to control circadian timing. <i>ELife</i> , 2020, 9, .	6.0	50
27	Normal Mode Analysis With Simplified Models To Investigate The Global Dynamics Of Biological Systems. <i>Protein and Peptide Letters</i> , 2003, 10, 119-132.	0.9	49
28	The Requirement for Mechanical Coupling Between Head and S2 Domains in Smooth Muscle Myosin ATPase Regulation and its Implications for Dimeric Motor Function. <i>Journal of Molecular Biology</i> , 2005, 345, 837-854.	4.2	47
29	Biased coarse-grained molecular dynamics simulation approach for flexible fitting of X-ray structure into cryo electron microscopy maps. <i>Journal of Structural Biology</i> , 2010, 169, 95-105.	2.8	47
30	Flexible fitting to cryo-EM density map using ensemble molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , 2017, 38, 1447-1461.	3.3	46
31	Ribosome motions modulate electrostatic properties. <i>Biopolymers</i> , 2004, 74, 423-431.	2.4	44
32	Twelve Transmembrane Helices Form the Functional Core of Mammalian MATE1 (Multidrug and Toxin) Tj ETQq0 0 Q rgBT /Overlock 10 T	3.4	40
33	Consensus among flexible fitting approaches improves the interpretation of cryo-EM data. <i>Journal of Structural Biology</i> , 2012, 177, 561-570.	2.8	38
34	Controlling the Circadian Clock with High Temporal Resolution through Photodosing. <i>Journal of the American Chemical Society</i> , 2019, 141, 15784-15791.	13.7	37
35	Reversible modulation of circadian time with chronopharmacology. <i>Nature Communications</i> , 2021, 12, 3164.	12.8	35
36	Structures of human pannexin-1 in nanodiscs reveal gating mediated by dynamic movement of the N terminus and phospholipids. <i>Science Signaling</i> , 2022, 15, eabg6941.	3.6	34

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37	Replica Exchange Molecular Dynamics Simulations Provide Insight into Substrate Recognition by Small Heat Shock Proteins. <i>Biophysical Journal</i> , 2014, 106, 2644-2655.	0.5	32
38	Photopharmacological Manipulation of Mammalian CRY1 for Regulation of the Circadian Clock. <i>Journal of the American Chemical Society</i> , 2021, 143, 2078-2087.	13.7	31
39	Thermodynamic properties of water molecules in the presence of cosolute depend on DNA structure: a study using grid inhomogeneous solvation theory. <i>Nucleic Acids Research</i> , 2015, 43, gkv1133.	14.5	29
40	Phosphorylated Smooth Muscle Heavy Meromyosin Shows an Open Conformation Linked to Activation. <i>Journal of Molecular Biology</i> , 2012, 415, 274-287.	4.2	25
41	Integrative/Hybrid Modeling Approaches for Studying Biomolecules. <i>Journal of Molecular Biology</i> , 2020, 432, 2846-2860.	4.2	25
42	Allosteric Regulation of DNA Cleavage and Sequence-Specificity through Run-On Oligomerization. <i>Structure</i> , 2013, 21, 1848-1858.	3.3	23
43	Model of the toxic complex of anthrax: Responsive conformational changes in both the lethal factor and the protective antigen heptamer. <i>Protein Science</i> , 2006, 15, 2190-2200.	7.6	22
44	Steered Molecular Dynamics Simulations of a Type IV Pilus Probe Initial Stages of a Force-Induced Conformational Transition. <i>PLoS Computational Biology</i> , 2013, 9, e1003032.	3.2	22
45	Reconstruction of low-resolution molecular structures from simulated atomic force microscopy images. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129420.	2.4	21
46	Simulations of substrate transport in the multidrug transporter EmrD. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1620-1632.	2.6	20
47	Consensus among multiple approaches as a reliability measure for flexible fitting into cryo-EM data. <i>Journal of Structural Biology</i> , 2013, 182, 67-77.	2.8	20
48	Topology representing neural networks reconcile biomolecular shape, structure, and dynamics. <i>Neurocomputing</i> , 2004, 56, 365-379.	5.9	19
49	Hybrid Electron Microscopy Normal Mode Analysis graphical interface and protocol. <i>Journal of Structural Biology</i> , 2014, 188, 134-141.	2.8	18
50	Hybrid approach for structural modeling of biological systems from X-ray free electron laser diffraction patterns. <i>Journal of Structural Biology</i> , 2016, 194, 325-336.	2.8	18
51	Structure modeling from small angle X-ray scattering data with elastic network normal mode analysis. <i>Journal of Structural Biology</i> , 2011, 173, 451-460.	2.8	16
52	Single-particle XFEL 3D reconstruction of ribosome-size particles based on Fourier slice matching: requirements to reach subnanometer resolution. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1010-1021.	2.4	16
53	Acceleration of cryo-EM Flexible Fitting for Large Biomolecular Systems by Efficient Space Partitioning. <i>Structure</i> , 2019, 27, 161-174.e3.	3.3	16
54	Molecular dynamics simulation shows large volume fluctuations of proteins. <i>European Biophysics Journal</i> , 2000, 29, 472-480.	2.2	15

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55	3DEM Loupe: analysis of macromolecular dynamics using structures from electron microscopy. <i>Nucleic Acids Research</i> , 2013, 41, W363-W367.	14.5	14
56	Three-dimensional reconstruction for coherent diffraction patterns obtained by XFEL. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 727-737.	2.4	13
57	Structural differences in the FAD-binding pockets and lid loops of mammalian CRY1 and CRY2 for isoform-selective regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
58	Local thermodynamics of the water molecules around single- and double-stranded DNA studied by grid inhomogeneous solvation theory. <i>Chemical Physics Letters</i> , 2016, 660, 250-255.	2.6	12
59	Network visualization of conformational sampling during molecular dynamics simulation. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 46, 140-149.	2.4	11
60	Reconstruction of Three-Dimensional Conformations of Bacterial ClpB from High-Speed Atomic-Force-Microscopy Images. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 704274.	3.5	10
61	Conformational dynamics of human protein kinase CK2 β and its effect on function and inhibition. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 344-353.	2.6	8
62	Hybrid Methods for Macromolecular Modeling by Molecular Mechanics Simulations with Experimental Data. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1105, 199-217.	1.6	8
63	Gaussian mixture model for coarse-grained modeling from XFEL. <i>Optics Express</i> , 2018, 26, 26734.	3.4	8
64	Macromolecular Dynamics by Hybrid Electron Microscopy Normal Mode Analysis. <i>Microscopy and Microanalysis</i> , 2014, 20, 1218-1219.	0.4	7
65	Poisson image denoising by piecewise principal component analysis and its application in single-particle X-ray diffraction imaging. <i>IET Image Processing</i> , 2018, 12, 2264-2274.	2.5	5
66	Light-Control over Casein Kinase 1 γ Activity with Photopharmacology: A Clear Case for Arylazopyrazole-Based Inhibitors. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5326.	4.1	5
67	Searching for 3D structural models from a library of biological shapes using a few 2D experimental images. <i>BMC Bioinformatics</i> , 2018, 19, 320.	2.6	4
68	Computational investigation of the conformational dynamics in Tom20-mitochondrial presequence tethered complexes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 81-90.	2.6	4
69	Conformational ensemble of an intrinsically flexible loop in mitochondrial import protein Tim21 studied by modeling and molecular dynamics simulations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129417.	2.4	4
70	Cryo-Cooling Effect on DHFR Crystal Studied by Replica-Exchange Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2019, 116, 395-405.	0.5	3
71	Crystal contact-free conformation of an intrinsically flexible loop in protein crystal: Tim21 as the case study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129418.	2.4	3
72	Computational Protocol for Assessing the Optimal Pixel Size to Improve the Accuracy of Single-particle Cryo-electron Microscopy Maps. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2570-2580.	5.4	3

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73	Parameter optimization for 3D-reconstruction from XFEL diffraction patterns based on Fourier slice matching. <i>Biophysics and Physicobiology</i> , 2019, 16, 367-376.	1.0	2
74	Protocol for Retrieving Three-Dimensional Biological Shapes for a Few XFEL Single-Particle Diffraction Patterns. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 4108-4119.	5.4	1
75	Elastic image registration to fully explore macromolecular dynamics by electron microscopy. , 2014, , .		0
76	Editorial overview: Macromolecular assemblies. <i>Current Opinion in Structural Biology</i> , 2017, 43, vii-ix.	5.7	0