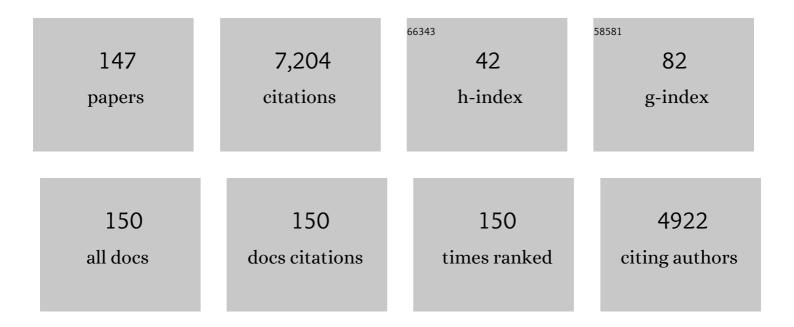
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Making optimal use of empirical energy functions: Force-field parameterization in crystal space. Proteins: Structure, Function and Bioinformatics, 2004, 57, 678-683.	2.6	772
2	Contact order revisited: Influence of protein size on the folding rate. Protein Science, 2003, 12, 2057-2062.	7.6	327
3	The price of lost freedom: entropy of bimolecular complex formation. Protein Engineering, Design and Selection, 1989, 3, 1-3.	2.1	312
4	The Classification and Origins of Protein Folding Patterns. Annual Review of Biochemistry, 1990, 59, 1007-1035.	11.1	302
5	A theoretical search for folding/unfolding nuclei in three-dimensional protein structures. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11299-11304.	7.1	300
6	Theory of cooperative transitions in protein molecules. I. Why denaturation of globular protein is a first-order phase transition. Biopolymers, 1989, 28, 1667-1680.	2.4	295
7	Theory of protein secondary structure and algorithm of its prediction. Biopolymers, 1983, 22, 15-25.	2.4	257
8	Why do globular proteins fit the limited set of foldin patterns?. Progress in Biophysics and Molecular Biology, 1987, 50, 171-190.	2.9	255
9	Similarities of protein topologies: evolutionary divergence, functional convergence or principles of folding?. Quarterly Reviews of Biophysics, 1980, 13, 339-386.	5.7	193
10	Why do protein architectures have boltzmann-like statistics?. Proteins: Structure, Function and Bioinformatics, 1995, 23, 142-150.	2.6	191
11	Comparison of predicted and experimentally determined secondary structure of adenyl kinase. Nature, 1974, 250, 140-142.	27.8	190
12	What is the probability of a chance prediction of a protein structure with an rmsd of 6 å?. Folding & Design, 1998, 3, 141-147.	4.5	185
13	Rate of protein folding near the point of thermodynamic equilibrium between the coil and the most stable chain fold. Folding & Design, 1997, 2, 115-121.	4.5	176
14	Prediction of protein folding rates from the amino acid sequence-predicted secondary structure. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8942-8944.	7.1	171
15	Theory of cooperative transitions in protein molecules. II. Phase diagram for a protein molecule in solution. Biopolymers, 1989, 28, 1681-1694.	2.4	166
16	General architecture of the α-helical globule. Journal of Molecular Biology, 1988, 204, 749-769.	4.2	144
17	A search for the most stable folds of protein chains. Nature, 1991, 351, 497-499.	27.8	140
18	Chain length is the main determinant of the folding rate for proteins with three-state folding kinetics. Proteins: Structure, Function and Bioinformatics, 2003, 51, 162-166.	2.6	140

#	Article	IF	CITATIONS
19	Physics of protein folding. Physics of Life Reviews, 2004, 1, 23-56.	2.8	92
20	Statistical analysis of the correlation among amino acid residues in helical, $\hat{1}^2$ -stractural and non-regular regions of globular proteins. Journal of Molecular Biology, 1971, 62, 613-624.	4.2	86
21	Physical reasons for secondary structure stability: α-Helices in short peptides. Proteins: Structure, Function and Bioinformatics, 1991, 10, 287-299.	2.6	85
22	TREND OF AMINO ACID COMPOSITION OF PROTEINS OF DIFFERENT TAXA. Journal of Bioinformatics and Computational Biology, 2006, 04, 597-608.	0.8	82
23	Why are the same protein folds used to perform different functions?. FEBS Letters, 1993, 325, 23-28.	2.8	81
24	Comparison of X-ray and NMR structures: Is there a systematic difference in residue contacts between X-ray- and NMR-resolved protein structures?. Proteins: Structure, Function and Bioinformatics, 2005, 60, 139-147.	2.6	78
25	Folding nuclei in proteins. FEBS Letters, 2001, 489, 113-118.	2.8	72
26	A theory of protein molecule self-organization. Journal of Molecular Biology, 1976, 103, 15-24.	4.2	69
27	Protein structure: what is it possible to predict now?. Current Opinion in Structural Biology, 1997, 7, 60-71.	5.7	69
28	Can protein unfolding simulate protein folding?. Protein Engineering, Design and Selection, 1997, 10, 843-845.	2.1	68
29	De novo design, synthesis and study of albebetin, a polypeptide with a predetermined three-dimensional structure. Journal of Molecular Biology, 1992, 225, 927-931.	4.2	67
30	Golden triangle for folding rates of globular proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 147-150.	7.1	58
31	Common features in structures and sequences of sandwich-like proteins. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14137-14141.	7.1	57
32	Outlining Folding Nuclei in Globular Proteins. Journal of Molecular Biology, 2004, 336, 509-525.	4.2	57
33	Folding of circular permutants with decreased contact order: general trend balanced by protein stability 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2001, 314, 891-900.	4.2	55
34	Theory of protein molecule self-organization. II. A comparison of calculated thermodynamic parameters of local secondary structures with experiments. Biopolymers, 1977, 16, 497-524.	2.4	54
35	Rate of Î <sup>2</sup> -structure formation in polypeptides. Proteins: Structure, Function and Bioinformatics, 1991, 9, 23-27.	2.6	54
36	Life in Phases: Intra- and Inter- Molecular Phase Transitions in Protein Solutions. Biomolecules, 2019, 9, 842.	4.0	52

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37	Secondary structure of globular proteins at the early and the final stages in protein folding. FEBS Letters, 1993, 334, 265-268.	2.8	50
38	Residue-residue mean-force potentials for protein structure recognition. Protein Engineering, Design and Selection, 1997, 10, 865-876.	2.1	48
39	How to Determine the Size of Folding Nuclei of Protofibrils from the Concentration Dependence of the Rate and Lag-Time of Aggregation. I. Modeling the Amyloid Protofibril Formation. Journal of Physical Chemistry B, 2014, 118, 1189-1197.	2.6	48
40	Theory of protein molecule self-organization. I. Thermodynamic parameters of local secondary structures in the unfolded protein chain. Biopolymers, 1977, 16, 469-495.	2.4	45
41	Computation of biopolymers: A general approach to different problems. BioSystems, 1993, 30, 1-19.	2.0	44
42	Perfect temperature for protein structure prediction and folding. Proteins: Structure, Function and Bioinformatics, 1995, 23, 151-162.	2.6	43
43	A structural perspective of compensatory evolution. Current Opinion in Structural Biology, 2014, 26, 104-112.	5.7	42
44	Boltzmann-like Statistics of Protein Architectures. Sub-Cellular Biochemistry, 1995, 24, 1-26.	2.4	41
45	Theory of protein molecule self-organization. III. A calculating method for the probabilities of the secondary structure formation in an unfolded polypeptide chain. Biopolymers, 1977, 16, 525-529.	2.4	34
46	Three-state protein folding: Experimental determination of free-energy profile. Protein Science, 2005, 14, 2658-2667.	7.6	34
47	Statistical significance of protein structure prediction by threading. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9978-9983.	7.1	33
48	There and back again: Two views on the protein folding puzzle. Physics of Life Reviews, 2017, 21, 56-71.	2.8	33
49	Search for the stable state of a short chain in a molecular field. Protein Engineering, Design and Selection, 1992, 5, 617-624.	2.1	32
50	α-Helix and β-Hairpin Folding from Experiment, Analytical Theory and Molecular Dynamics Simulations. Current Protein and Peptide Science, 2002, 3, 191-200.	1.4	32
51	50+ Years of Protein Folding. Biochemistry (Moscow), 2018, 83, S3-S18.	1.5	31
52	Folding of chains with random and edited sequences: similarities and differences. Protein Engineering, Design and Selection, 1995, 8, 883-892.	2.1	29
53	Cunning simplicity of protein folding landscapes. Protein Engineering, Design and Selection, 2001, 14, 521-523.	2.1	27
54	How to Determine the Size of Folding Nuclei of Protofibrils from the Concentration Dependence of the Rate and Lag-Time of Aggregation. II. Experimental Application for Insulin and LysPro Insulin: Aggregation Morphology, Kinetics, and Sizes of Nuclei. Journal of Physical Chemistry B, 2014, 118, 1198-1206.	2.6	27

#	Article	IF	CITATIONS
55	Protein design on computers. Five new proteins: Shpilka, grendel, fingerclasp, leather, and aida. Proteins: Structure, Function and Bioinformatics, 1992, 12, 105-110.	2.6	26
56	The Molten Globule Concept: 45 Years Later. Biochemistry (Moscow), 2018, 83, S33-S47.	1.5	26
57	Theoretical Study of a Landscape of Protein Foldingâ^'Unfolding Pathways. Folding Rates at Midtransitionâ€. Biochemistry, 2001, 40, 9957-9961.	2.5	25
58	Structural model for interferons. FEBS Letters, 1985, 186, 143-148.	2.8	24
59	Implications of the random characteristics of protein sequences for their three-dimensional structure. Current Opinion in Structural Biology, 1994, 4, 422-428.	5.7	23
60	Averaging interaction energies over homologs improves protein fold recognition in gapless threading. Proteins: Structure, Function and Bioinformatics, 1999, 35, 353-359.	2.6	23
61	Folding Intermediate and Folding Nucleus for I→N and U→l→N Transitions in Apomyoglobin: Contributions by Conserved and Nonconserved Residues. Biophysical Journal, 2010, 98, 1694-1702.	0.5	23
62	Accurate general method for lattice approximation of three-dimensional structure of a chain molecule. Proteins: Structure, Function and Bioinformatics, 1995, 22, 100-109.	2.6	22
63	Cunning Simplicity of a Hierarchical Folding. Journal of Biomolecular Structure and Dynamics, 2002, 20, 311-313.	3.5	21
64	How strong are side chain interactions in the folding intermediate?. Protein Science, 2009, 18, 2152-2159.	7.6	21
65	Solution of Levinthal's Paradox and a Physical Theory of Protein Folding Times. Biomolecules, 2020, 10, 250.	4.0	21
66	Recognition of signal sequences. FEBS Letters, 1983, 161, 176-179.	2.8	20
67	Rate of protein folding near the point of thermodynamic equilibrium between the coil and the most stable chain fold: Influence of chain knotting on the rate of folding. Folding & Design, 1998, 3, 67-68.	4.5	20
68	3D Protein Folds: Homologs Against Errors—a Simple Estimate Based on the Random Energy Model. Physical Review Letters, 1998, 80, 4823-4825.	7.8	20
69	Search for the most stable folds of protein chains: I. Application of a self-consistent molecular field theory to a problem of protein three-dimensional structure prediction. Protein Engineering, Design and Selection, 1996, 9, 387-397.	2.1	19
70	Restrictions to protein folding determined by the protein size. FEBS Letters, 2013, 587, 1884-1890.	2.8	19
71	Search for the most stable folds of protein chains: II. Computation of stable architectures of β-proteins using a self-consistent molecular field theory. Protein Engineering, Design and Selection, 1996, 9, 399-411.	2.1	18
72	Understanding the Folding Rates and Folding Nuclei of Globular Proteins. Current Protein and Peptide Science, 2007, 8, 521-536.	1.4	18

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73	Prediction of the secondary structure of the L7, L12 proteins of the E. coli ribosome. FEBS Letters, 1973, 34, 55-57.	2.8	17
74	Prediction of protein secondary structure based on physical theory. Histones. Protein Engineering, Design and Selection, 1989, 2, 443-447.	2.1	17
75	Threading with chemostructural restrictions method for predicting fold and functionally significant residues: Application to dipeptidylpeptidase IV (DPP-IV). Proteins: Structure, Function and Bioinformatics, 2002, 47, 180-193.	2.6	17
76	From analysis of protein structural alignments toward a novel approach to align protein sequences. Proteins: Structure, Function and Bioinformatics, 2004, 54, 569-582.	2.6	16
77	Reduction of the Search Space for the Folding of Proteins at the Level of Formation and Assembly of Secondary Structures: A New View on the Solution of Levinthal′s Paradox. ChemPhysChem, 2015, 16, 3375-3378.	2.1	16
78	Short alpha-helix stability. Nature, 1990, 345, 300-300.	27.8	13
79	Weak points of antiparallel β-sheets. How are they filled up in globular proteins?. Protein Engineering, Design and Selection, 1993, 6, 367-372.	2.1	13
80	Constructing Lattice Models of Protein Chains with Side Groups. Journal of Computational Biology, 1995, 2, 527-535.	1.6	13
81	Folding rate dependence on the chain length for RNA-like heteropolymers. Folding & Design, 1998, 3, 69-78.	4.5	12
82	Optimization of Protein Structure on Lattices Using a Self-Consistent Field Approach. Journal of Computational Biology, 1998, 5, 531-538.	1.6	12
83	Average and extreme multi-atom Van der Waals interactions: Strong coupling of multi-atom Van der Waals interactions with covalent bonding. Chemistry Central Journal, 2007, 1, 21.	2.6	12
84	Development and Testing of PFFSol1.1, a New Polarizable Atomic Force Field for Calculation of Molecular Interactions in Implicit Water Environment. Journal of Physical Chemistry B, 2012, 116, 4646-4654.	2.6	12
85	Strict experimental evidence that apo-chaperonin GroEL does not accelerate protein folding, although it does accelerate one of its steps. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6831-E6832.	7.1	12
86	Predicted Î <sup>2</sup> -structure stability parameters under experimental test. Protein Engineering, Design and Selection, 1995, 8, 207-209.	2.1	11
87	Did the primitive ribosomal RNA code primitive ribosomal protein?. FEBS Letters, 1977, 82, 169-171.	2.8	10
88	c I and lexA repressors consist of three cro -like domains. FEBS Letters, 1982, 147, 11-15.	2.8	10
89	A new approach to the design of a sequence with the highest affinity for a molecular surface. Protein Engineering, Design and Selection, 1992, 5, 625-628.	2.1	10
90	Theoretical study of protein folding: outlining folding nuclei and estimation of protein folding rates. Journal of Physics Condensed Matter, 2005, 17, S1539-S1551.	1.8	10

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91		Building self-avoiding lattice models of proteins using a self-consistent field optimization. , 1996, 26, 1-8.		9
92	:	Adjusting potential energy functions for lattice models of chain molecules. , 1996, 25, 379-388.		8
98		Computer simulation of secondary structure folding of random and â€~â€~edited'' RNA chains. Journal of Chemical Physics, 1996, 105, 319-325.	3.0	8
94		Recognition of protein structure on coarse lattices with residue- residue energy functions. Protein Engineering, Design and Selection, 1997, 10, 1123-1130.	2.1	8
95		S6 permutein shows that the unusual target topology is not responsible for the absence of rigid tertiary structure in de novo protein albebetin. FEBS Letters, 1997, 414, 243-246.	2.8	8
96	)	Time to Overcome the High, Long, and Bumpy Free Energy Barrier in a Multi-Stage Process: The Generalized Steady-State Approach. Journal of Physical Chemistry B, 2015, 119, 158-163.	2.6	8
97		Levinthal's question answered … again?. Journal of Biomolecular Structure and Dynamics, 2013, 31, 1013-1015.	3.5	7
98	;	Protein Folding as Flow across a Network of Foldingâ^'Unfolding Pathways. 1. The Mid-Transition Case. Journal of Physical Chemistry B, 2010, 114, 7920-7929.	2.6	6
99		Protein Folding as Flow across a Network of Foldingâ^'Unfolding Pathways. 2. The "In-Water―Case. Journal of Physical Chemistry B, 2010, 114, 7930-7934.	2.6	6
10	0	A new approach to artificial and modified proteins: theory-based design, synthesis in a cell-free system and fast testing of structural properties by radiolabels. Protein Engineering, Design and Selection, 1994, 7, 1041-1052.	2.1	5
10	1	Lattice modeling: Accuracy of energy calculations. Journal of Computational Chemistry, 1996, 17, 1025-1032.	3.3	5
10	2	Calculation of mobility and entropy of the binding of molecules by crystals. Molecular Biology, 2016, 50, 452-461.	1.3	5
10	3	Intermediate states of apomyoglobin: Are they parts of the same area of conformations diagram?. Biochemistry (Moscow), 2017, 82, 625-631.	1.5	5
10	14	What is Responsible for Atypical Dependence of the Rate of Amyloid Formation on Protein Concentration: Fibril-Catalyzed Initiation of New Fibrils or Competition with Oligomers?. Journal of Physical Chemistry Letters, 2018, 9, 1002-1006.	4.6	5
10	5	Lecture 9. , 2002, , 103-116.		5
10	6	The Molten Globule State of a Globular Protein in a Cell Is More or Less Frequent Case Rather than an Exception. Molecules, 2022, 27, 4361.	3.8	5
10	7	How Homologs Can Help to Predict Protein Folds Even Though They Cannot Be Predicted for Individual Sequences. Journal of Computational Biology, 1998, 5, 369-376.	1.6	4
10	18	Derivation and Testing Residue-Residue Mean-Force Potentials for Use in Protein Structure		4

Derivation and Testing Residue-Residue Mean-Force Potentials for Use in Protein Structure Recognition. , 2000, 143, 155-174. 108

#	Article	IF	CITATIONS
109	Folding Nuclei in Proteins. Molecular Biology, 2001, 35, 605-613.	1.3	4
110	Cunning Simplicity of a Stoichiometry Driven Protein Folding Thesis. Journal of Biomolecular Structure and Dynamics, 2011, 28, 595-598.	3.5	4
111	Sublimation Entropy and Dissociation Constants Prediction by Quantitative Evaluation of Molecular Mobility in Crystals. Journal of Physical Chemistry Letters, 2017, 8, 2758-2763.	4.6	4
112	Some additional remarks to the solution of the protein folding puzzle. Physics of Life Reviews, 2017, 21, 77-79.	2.8	4
113	The Classification And Origins Of Protein Folding Patterns. Annual Review of Biochemistry, 1990, 59, 1007-1039.	11.1	4
114	Prediction of the three-dimensional structure for ribosomal protein L25. FEBS Letters, 1975, 60, 137-140.	2.8	3
115	MANY-ATOM VAN DER WAALS INTERACTIONS LEAD TO DIRECTION-SENSITIVE INTERACTIONS OF COVALENT BONDS. Journal of Bioinformatics and Computational Biology, 2008, 06, 693-707.	0.8	3
116	Analogy-based protein structure prediction: III. Optimizing the combination of the substitution matrix and pseudopotentials used to align protein sequences with spatial structures. Molecular Biology, 2010, 44, 109-118.	1.3	3
117	How Can Ice Emerge at 0 °C?. Biomolecules, 2022, 12, 981.	4.0	3
118	Prediction of Secondary Structure, Spatial Organization and Distribution of Antigenic Determinants for Hepatitis A Virus Proteins. Journal of Biomolecular Structure and Dynamics, 1987, 5, 447-458.	3.5	2
119	Determination of the Size of the Primary and Secondary Folding Nuclei of Protofibrils from the Concentration Dependence of the Rate and the Lag-Time of Their Formation. , 2015, , 47-66.		2
120	Analogy-based protein structure prediction: I. A new database of spatially similar and dissimilar structures of protein domains for testing and optimizing prediction methods. Molecular Biology, 2009, 43, 665-676.	1.3	1
121	Analogy-based protein structure prediction: II. Testing of substitution matrices and pseudopotentials used to align protein sequences with spatial structures. Molecular Biology, 2009, 43, 677-684.	1.3	1
122	Lecture 5. , 2016, , 51-65.		1
123	Lecture 11. , 2016, , 151-163.		1
124	Lecture 15. , 2016, , 215-231.		1
125	Lecture 19. , 2016, , 289-306.		1
126	Lecture 20. , 2016, , 307-321.		1

#	Article	IF	CITATIONS
127	Lecture 21. , 2016, , 323-346.		1
128	Oleg Borisovich Ptitsyn: July 18, 1929-March 22, 1999. , 1999, 36, 145-146.		0
129	Lecture 1. , 2016, , 3-13.		Ο
130	Lecture 2. , 2016, , 17-25.		0
131	Lecture 3. , 2016, , 27-37.		Ο
132	Lecture 4. , 2016, , 39-50.		0
133	Lecture 6. , 2016, , 67-82.		Ο
134	Lecture 7. , 2016, , 85-99.		0
135	Lecture 8. , 2016, , 101-122.		Ο
136	Lecture 9. , 2016, , 123-137.		0
137	Lecture 13. , 2016, , 181-197.		0
138	Lecture 14. , 2016, , 199-213.		0
139	Lecture 16. , 2016, , 233-250.		Ο
140	Lecture 18. , 2016, , 275-287.		0
141	Lecture 22. , 2016, , 349-366.		Ο
142	Lecture 23. , 2016, , 367-383.		0
143	Two Views on the Protein Folding Puzzle. , 2018, , 391-412.		0
144	The Reverse Side of a Coin: "Factor-Free―Ribosomal Protein Synthesis In Vitro is a Consequence of the In Vivo Proofreading Mechanism. Biomolecules, 2019, 9, 588.	4.0	0

#	Article	IF	CITATIONS
145	Title is missing!. Journal of Computational Chemistry, 1996, 17, 1025.	3.3	0
146	Protein Structure and Its Folding Rate. , 2008, , 273-301.		0
147	Calculation of Crystal-Solution Dissociation Constants. Biomolecules, 2022, 12, 147.	4.0	0