

Andrzej Kolinski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211
papers

9,489
citations

52
h-index

90
g-index

223
ext. papers

10,521
ext. citations

5.2
avg. IF

6.53
L-index

#	Paper	IF	Citations
211	Protein-Protein Docking with Large-Scale Backbone Flexibility Using Coarse-Grained Monte-Carlo Simulations. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
210	Flexible docking of peptides to proteins using CABS-dock. <i>Protein Science</i> , 2020 , 29, 211-222	6.3	24
209	Computational reconstruction of atomistic protein structures from coarse-grained models. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 162-176	6.8	24
208	Protocols for All-Atom Reconstruction and High-Resolution Refinement of Protein-Peptide Complex Structures. <i>Methods in Molecular Biology</i> , 2020 , 2165, 273-287	1.4	4
207	Protocols for Fast Simulations of Protein Structure Flexibility Using CABS-Flex and SURPASS. <i>Methods in Molecular Biology</i> , 2020 , 2165, 337-353	1.4	4
206	CABS-dock standalone: a toolbox for flexible protein-peptide docking. <i>Bioinformatics</i> , 2019 , 35, 4170-4172	7.2	25
205	Modeling of Disordered Protein Structures Using Monte Carlo Simulations and Knowledge-Based Statistical Force Fields. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	24
204	CABS-flex standalone: a simulation environment for fast modeling of protein flexibility. <i>Bioinformatics</i> , 2019 , 35, 694-695	7.2	45
203	Protein modeling and structure prediction with a reduced representation.. <i>Acta Biochimica Polonica</i> , 2019 , 51, 349-371	2	221
202	Denatured proteins and early folding intermediates simulated in a reduced conformational space.. <i>Acta Biochimica Polonica</i> , 2019 , 53, 131-143	2	23
201	Protein Structure Prediction Using Coarse-Grained Models. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 27-59	0.5	2
200	Explicit-Solvent All-Atom Molecular Dynamics of Peptide Aggregation. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 541-558	0.5	
199	Protein Dynamics Simulations Using Coarse-Grained Models. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 61-87	0.5	1
198	Protein-peptide docking using CABS-dock and contact information. <i>Briefings in Bioinformatics</i> , 2019 , 20, 2299-2305	13.4	17
197	Explicit Solvent Molecular Dynamics Simulations of Self-Assembling Amyloidogenic Peptides. <i>Biophysical Journal</i> , 2018 , 114, 230a	2.9	
196	Coarse-Grained Modeling of the Interplay between Secondary Structure Propensities and Protein Fold Assembly. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 2277-2287	6.4	5
195	Protein-peptide docking: opportunities and challenges. <i>Drug Discovery Today</i> , 2018 , 23, 1530-1537	8.8	118

194	Kinetics and mechanical stability of the fibril state control fibril formation time of polypeptide chains: A computational study. <i>Journal of Chemical Physics</i> , 2018 , 148, 215106	3.9	16
193	Modeling of Protein Structural Flexibility and Large-Scale Dynamics: Coarse-Grained Simulations and Elastic Network Models. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	37
192	Role of Resultant Dipole Moment in Mechanical Dissociation of Biological Complexes. <i>Molecules</i> , 2018 , 23,	4.8	13
191	CABS-flex 2.0: a web server for fast simulations of flexibility of protein structures. <i>Nucleic Acids Research</i> , 2018 , 46, W338-W343	20.1	118
190	Highly Flexible Protein-Peptide Docking Using CABS-Dock. <i>Methods in Molecular Biology</i> , 2017 , 1561, 69-94	1.4	24
189	Switch from thermal to force-driven pathways of protein refolding. <i>Journal of Chemical Physics</i> , 2017 , 146, 135101	3.9	8
188	SURPASS Low-Resolution Coarse-Grained Protein Modeling. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5766-5779	6.4	12
187	Modeling EphB4-EphrinB2 protein-protein interaction using flexible docking of a short linear motif. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 71	4.1	12
186	A protocol for CABS-dock protein-peptide docking driven by side-chain contact information. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 73	4.1	5
185	Toward more efficient simulations of slow processes in large biomolecular systems: Comment on "Ligand diffusion in proteins via enhanced sampling in molecular dynamics" by Jakub Rydzewski and Wieslaw Nowak. <i>Physics of Life Reviews</i> , 2017 , 22-23, 75-76	2.1	4
184	One-Dimensional Structural Properties of Proteins in the Coarse-Grained CABS Model. <i>Methods in Molecular Biology</i> , 2017 , 1484, 83-113	1.4	7
183	Predicting Real-Valued Protein Residue Fluctuation Using FlexPred. <i>Methods in Molecular Biology</i> , 2017 , 1484, 175-186	1.4	3
182	The GOR Method of Protein Secondary Structure Prediction and Its Application as a Protein Aggregation Prediction Tool. <i>Methods in Molecular Biology</i> , 2017 , 1484, 7-24	1.4	20
181	Coarse-Grained Simulations of Membrane Insertion and Folding of Small Helical Proteins Using the CABS Model. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 2207-2215	6.1	12
180	Coarse-Grained Protein Models and Their Applications. <i>Chemical Reviews</i> , 2016 , 116, 7898-936	68.1	489
179	Modeling of protein-peptide interactions using the CABS-dock web server for binding site search and flexible docking. <i>Methods</i> , 2016 , 93, 72-83	4.6	104
178	Ensemble-based evaluation for protein structure models. <i>Bioinformatics</i> , 2016 , 32, i314-i321	7.2	5
177	Protein secondary structure prediction using a small training set (compact model) combined with a Complex-valued neural network approach. <i>BMC Bioinformatics</i> , 2016 , 17, 362	3.6	17

176	Protein-peptide molecular docking with large-scale conformational changes: the p53-MDM2 interaction. <i>Scientific Reports</i> , 2016 , 6, 37532	4.9	33
175	5-HT2 receptor affinity, docking studies and pharmacological evaluation of a series of 1,3-disubstituted thiourea derivatives. <i>European Journal of Medicinal Chemistry</i> , 2016 , 116, 173-186	6.8	18
174	Improving thermal stability of thermophilic L-threonine aldolase from <i>Thermotoga maritima</i> . <i>Journal of Biotechnology</i> , 2015 , 199, 69-76	3.7	8
173	Preformed template fluctuations promote fibril formation: insights from lattice and all-atom models. <i>Journal of Chemical Physics</i> , 2015 , 142, 145104	3.9	16
172	Coarse-Grained Modeling of Peptide Docking Associated with Large Conformation Transitions of the Binding Protein: Troponin I Fragment-Troponin C System. <i>Molecules</i> , 2015 , 20, 10763-80	4.8	10
171	CABS-dock web server for the flexible docking of peptides to proteins without prior knowledge of the binding site. <i>Nucleic Acids Research</i> , 2015 , 43, W419-24	20.1	237
170	Mechanism of Folding and Binding of an Intrinsically Disordered Protein As Revealed by ab Initio Simulations. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2224-31	6.4	29
169	CABS-flex predictions of protein flexibility compared with NMR ensembles. <i>Bioinformatics</i> , 2014 , 30, 2150-4	7.2	48
168	BioShell-Threading: versatile Monte Carlo package for protein 3D threading. <i>BMC Bioinformatics</i> , 2014 , 15, 22	3.6	15
167	Coarse-Grained Protein Models in Structure Prediction. <i>Springer Series in Bio-/neuroinformatics</i> , 2014 , 25-53		
166	Coarse-Grained Modeling of Protein Dynamics. <i>Springer Series in Bio-/neuroinformatics</i> , 2014 , 55-79		7
165	Protocols for efficient simulations of long-time protein dynamics using coarse-grained CABS model. <i>Methods in Molecular Biology</i> , 2014 , 1137, 235-50	1.4	11
164	A structure-based model fails to probe the mechanical unfolding pathways of the titin I27 domain. <i>Journal of Chemical Physics</i> , 2013 , 139, 065103	3.9	12
163	Consistent View of Protein Fluctuations from All-Atom Molecular Dynamics and Coarse-Grained Dynamics with Knowledge-Based Force-Field. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 119-25	6.4	63
162	ClusCo: clustering and comparison of protein models. <i>BMC Bioinformatics</i> , 2013 , 14, 62	3.6	25
161	Combining coarse-grained protein models with replica-exchange all-atom molecular dynamics. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 9893-905	6.3	20
160	CABS-flex: Server for fast simulation of protein structure fluctuations. <i>Nucleic Acids Research</i> , 2013 , 41, W427-31	20.1	98
159	CABS-fold: Server for the de novo and consensus-based prediction of protein structure. <i>Nucleic Acids Research</i> , 2013 , 41, W406-11	20.1	75

158	Optimization of profile-to-profile alignment parameters for one-dimensional threading. <i>Journal of Computational Biology</i> , 2012 , 19, 879-86	1.7	4
157	From coarse-grained to atomic-level characterization of protein dynamics: transition state for the folding of B domain of protein A. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7026-32	3.4	27
156	Coarse-grained modeling of mucus barrier properties. <i>Biophysical Journal</i> , 2012 , 102, 195-200	2.9	19
155	How noise in force fields can affect the structural refinement of protein models?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 335-41	4.2	6
154	Optimization of protein models. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012 , 2, 479-493	7.9	27
153	Structural features that predict real-value fluctuations of globular proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 1425-35	4.2	18
152	Elastic network normal modes provide a basis for protein structure refinement. <i>Journal of Chemical Physics</i> , 2012 , 136, 195101	3.9	12
151	BioShell Threader: protein homology detection based on sequence profiles and secondary structure profiles. <i>Nucleic Acids Research</i> , 2012 , 40, W257-62	20.1	8
150	Lattice Polymers and Protein Models 2011 , 1-20		
149	Multiscale Approach to Protein Folding Dynamics 2011 , 281-293		11
148	Analysis and optimization of interactions between peptides mimicking the GD2 ganglioside and the monoclonal antibody 14G2a. <i>International Journal of Molecular Medicine</i> , 2011 , 28, 47-57	4.4	12
147	Multibody coarse-grained potentials for native structure recognition and quality assessment of protein models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 1923-9	4.2	36
146	CABS-NMR--De novo tool for rapid global fold determination from chemical shifts, residual dipolar couplings and sparse methyl-methyl NOEs. <i>Journal of Computational Chemistry</i> , 2011 , 32, 536-44	3.5	10
145	Simulation of chaperonin effect on protein folding: a shift from nucleation-condensation to framework mechanism. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10283-9	16.4	38
144	Human telomerase model shows the role of the TEN domain in advancing the double helix for the next polymerization step. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9443-8	11.5	41
143	Multiscale Protein and Peptide Docking 2011 , 21-33		
142	Coarse-grained Monte Carlo simulations of mucus: structure, dynamics, and thermodynamics. <i>Biophysical Journal</i> , 2010 , 99, 3507-16	2.9	9
141	Theoretical study of molecular mechanism of binding TRAP220 coactivator to Retinoid X Receptor alpha, activated by 9-cis retinoic acid. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010 , 121, 124-9	5.1	9

140	Modeling of loops in proteins: a multi-method approach. <i>BMC Structural Biology</i> , 2010 , 10, 5	2.7	32
139	TRACER. A new approach to comparative modeling that combines threading with free-space conformational sampling. <i>Acta Biochimica Polonica</i> , 2010 , 57, 125-33	2	3
138	Distance matrix-based approach to protein structure prediction. <i>Journal of Structural and Functional Genomics</i> , 2009 , 10, 67-81		36
137	Template-Free Predictions of Three-Dimensional Protein Structures: From First Principles to Knowledge-Based Potentials 2008 , 117-141		1
136	Predicting the complex structure and functional motions of the outer membrane transporter and signal transducer FecA. <i>Biophysical Journal</i> , 2008 , 94, 2482-91	2.9	11
135	Folding pathway of the b1 domain of protein G explored by multiscale modeling. <i>Biophysical Journal</i> , 2008 , 94, 726-36	2.9	85
134	Utility library for structural bioinformatics. <i>Bioinformatics</i> , 2008 , 24, 584-5	7.2	35
133	Uncharacterized DUF1574 leptospira proteins are SGNH hydrolases. <i>Cell Cycle</i> , 2008 , 7, 542-4	4.7	4
132	Fast and accurate methods for predicting short-range constraints in protein models. <i>Journal of Computer-Aided Molecular Design</i> , 2008 , 22, 783-8	4.2	
131	Contact prediction in protein modeling: scoring, folding and refinement of coarse-grained models. <i>BMC Structural Biology</i> , 2008 , 8, 36	2.7	13
130	AAindex: amino acid index database, progress report 2008. <i>Nucleic Acids Research</i> , 2008 , 36, D202-5	20.1	623
129	Why do proteins divide into domains? Insights from lattice model simulations. <i>Biomacromolecules</i> , 2007 , 8, 3519-24	6.9	2
128	Dynamics of Dense Polymer Systems: Computer Simulations and Analytic Theories. <i>Advances in Chemical Physics</i> , 2007 , 223-278		48
127	Backbone building from quadrilaterals: a fast and accurate algorithm for protein backbone reconstruction from alpha carbon coordinates. <i>Journal of Computational Chemistry</i> , 2007 , 28, 1593-1597 ^{3.5}		90
126	Protein structure prediction: combining de novo modeling with sparse experimental data. <i>Journal of Computational Chemistry</i> , 2007 , 28, 1668-76	3.5	22
125	Towards the high-resolution protein structure prediction. Fast refinement of reduced models with all-atom force field. <i>BMC Structural Biology</i> , 2007 , 7, 43	2.7	44
124	Type II restriction endonuclease R.Eco29ki is a member of the GIY-YIG nuclease superfamily. <i>BMC Structural Biology</i> , 2007 , 7, 48	2.7	27
123	Ideal amino acid exchange forms for approximating substitution matrices. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 69, 379-93	4.2	11

122	Hierarchical modeling of protein interactions. <i>Journal of Molecular Modeling</i> , 2007 , 13, 691-8	2	17
121	Efficient scheme for optimization of parallel tempering Monte Carlo method. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 036225	1.8	21
120	Comparative modeling without implicit sequence alignments. <i>Bioinformatics</i> , 2007 , 23, 2522-7	7.2	13
119	Characterization of protein-folding pathways by reduced-space modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12330-5	11.5	78
118	T-Pile--a package for thermodynamic calculations for biomolecules. <i>Bioinformatics</i> , 2007 , 23, 1840-2	7.2	2
117	Steps towards flexible docking: modeling of three-dimensional structures of the nuclear receptors bound with peptide ligands mimicking co-activators' sequences. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007 , 103, 357-60	5.1	18
116	BioShell--a package of tools for structural biology computations. <i>Bioinformatics</i> , 2006 , 22, 621-2	7.2	42
115	Denatured proteins and early folding intermediates simulated in a reduced conformational space. <i>Acta Biochimica Polonica</i> , 2006 , 53, 131-44	2	10
114	Ab initio Modeling 2005 , 137-161		
113	Protein Folding with a Reduced Model and Inaccurate Short-Range Restraints. <i>Macromolecular Theory and Simulations</i> , 2005 , 14, 444-451	1.5	6
112	Protein structure prediction by tempering spatial constraints. <i>Journal of Computer-Aided Molecular Design</i> , 2005 , 19, 603-8	4.2	2
111	Exploring protein energy landscapes with hierarchical clustering. <i>International Journal of Quantum Chemistry</i> , 2005 , 105, 826-830	2.1	19
110	Inferring ideal amino acid interaction forms from statistical protein contact potentials. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 59, 49-57	4.2	55
109	Generalized protein structure prediction based on combination of fold-recognition with de novo folding and evaluation of models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61 Suppl 7, 84-90	4.2	92
108	DNA vaccine expressing the mimotope of GD2 ganglioside induces protective GD2 cross-reactive antibody responses. <i>Cancer Research</i> , 2005 , 65, 3410-8	10.1	53
107	HCPM--program for hierarchical clustering of protein models. <i>Bioinformatics</i> , 2005 , 21, 3179-80	7.2	29
106	A minimal proteinlike lattice model: an alpha-helix motif. <i>Journal of Chemical Physics</i> , 2005 , 122, 214915	3.9	12
105	A new approach to prediction of short-range conformational propensities in proteins. <i>Bioinformatics</i> , 2005 , 21, 981-7	7.2	6

104	Theoretical model of prion propagation: a misfolded protein induces misfolding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7835-40	11.5	47
103	Protein modeling with reduced representation: statistical potentials and protein folding mechanism.. <i>Acta Biochimica Polonica</i> , 2005 , 52, 741-748	2	5
102	Reduced models of proteins and their applications. <i>Polymer</i> , 2004 , 45, 511-524	3.9	159
101	Protein fragment reconstruction using various modeling techniques. <i>Journal of Computer-Aided Molecular Design</i> , 2003 , 17, 725-38	4.2	72
100	A simple lattice model that exhibits a protein-like cooperative all-or-none folding transition. <i>Biopolymers</i> , 2003 , 69, 399-405	2.2	17
99	Use of residual dipolar couplings as restraints in ab initio protein structure prediction. <i>Biopolymers</i> , 2003 , 70, 548-62	2.2	16
98	TOUCHSTONEX: protein structure prediction with sparse NMR data. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003 , 53, 290-306	4.2	35
97	TOUCHSTONE: a unified approach to protein structure prediction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003 , 53 Suppl 6, 469-79	4.2	69
96	TOUCHSTONE II: a new approach to ab initio protein structure prediction. <i>Biophysical Journal</i> , 2003 , 85, 1145-64	2.9	223
95	Unfolding of globular proteins: monte carlo dynamics of a realistic reduced model. <i>Biophysical Journal</i> , 2003 , 85, 3271-8	2.9	8
94	A minimal physically realistic protein-like lattice model: designing an energy landscape that ensures all-or-none folding to a unique native state. <i>Biophysical Journal</i> , 2003 , 84, 1518-26	2.9	46
93	Ab initio protein structure prediction on a genomic scale: application to the <i>Mycoplasma genitalium</i> genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5993-8	11.5	39
92	Numerical study of the entropy loss of dimerization and the folding thermodynamics of the GCN4 leucine zipper. <i>Biophysical Journal</i> , 2002 , 83, 2801-11	2.9	12
91	2-Ethyl and 2-ethylidene analogues of 1 α ,25-dihydroxy-19-norvitamin D(3): synthesis, conformational analysis, biological activities, and docking to the modeled rVDR ligand binding domain. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 3366-80	8.3	62
90	A Unified Approach to the Prediction of Protein Structure and Function. <i>Advances in Chemical Physics</i> , 2002 , 131-192		7
89	Computer simulations of protein folding with a small number of distance restraints.. <i>Acta Biochimica Polonica</i> , 2002 , 49, 683-692	2	2
88	Model of three-dimensional structure of vitamin D receptor and its binding mechanism with 1 α ,25-dihydroxyvitamin D(3). <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , 44, 188-99	4.2	17
87	Three-dimensional modeling of the I-TevI homing endonuclease catalytic domain, a GIY-YIG superfamily member, using NMR restraints and Monte Carlo dynamics. <i>Protein Engineering, Design and Selection</i> , 2001 , 14, 717-21	1.9	11

86	A new combination of replica exchange Monte Carlo and histogram analysis for protein folding and thermodynamics. <i>Journal of Chemical Physics</i> , 2001 , 115, 1569-1574	3.9	27
85	Ab initio protein structure prediction via a combination of threading, lattice folding, clustering, and structure refinement. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , Suppl 5, 149-56	4.2	58
84	Computer simulations of the properties of the α , α C, and α D de novo designed helical proteins 2000 , 38, 17-28		6
83	Derivation of protein-specific pair potentials based on weak sequence fragment similarity 2000 , 38, 3-16		84
82	Accurate reconstruction of all-atom protein representations from side-chain-based low-resolution models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000 , 41, 86-97	4.2	80
81	Helix-coil and beta sheet-coil transitions in a simplified, yet realistic protein model. <i>Macromolecular Theory and Simulations</i> , 2000 , 9, 523-533	1.5	12
80	Structural genomics and its importance for gene function analysis. <i>Nature Biotechnology</i> , 2000 , 18, 283-744.5		177
79	Protein Folding: Flexible Lattice Models. <i>Progress of Theoretical Physics Supplement</i> , 2000 , 138, 292-300		14
78	Comparison of three Monte Carlo conformational search strategies for a proteinlike homopolymer model: Folding thermodynamics and identification of low-energy structures. <i>Journal of Chemical Physics</i> , 2000 , 113, 5065	3.9	62
77	Combining MONSSTER and LES/PME to Predict Protein Structure from Amino Acid Sequence: Application to the Small Protein CMTI-1. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8392-8402	16.4	35
76	De novo predictions of the quaternary structure of leucine zippers and other coiled coils. <i>International Journal of Quantum Chemistry</i> , 1999 , 75, 165-176	2.1	4
75	Ab initio folding of proteins using restraints derived from evolutionary information. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , 37, 177-185	4.2	89
74	Correlation between knowledge-based and detailed atomic potentials: Application to the unfolding of the GCN4 leucine zipper. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , 35, 447-452	4.2	29
73	A method for the improvement of threading-based protein models. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , 37, 592-610	4.2	48
72	De novo simulations of the folding thermodynamics of the GCN4 leucine zipper. <i>Biophysical Journal</i> , 1999 , 77, 54-69	2.9	29
71	Dynamics and thermodynamics of beta-hairpin assembly: insights from various simulation techniques. <i>Biophysical Journal</i> , 1999 , 77, 2942-52	2.9	82
70	Ab initio folding of proteins using restraints derived from evolutionary information. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , 37, 177-185	4.2	32
69	Assessing energy functions for flexible docking. <i>Journal of Computational Chemistry</i> , 1998 , 19, 1612-1623.5	3.5	132

68	Tertiary structure prediction of the KIX domain of CBP using Monte Carlo simulations driven by restraints derived from multiple sequence alignments. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998 , 30, 287-94	4.2	16
67	Assembly of protein structure from sparse experimental data: An efficient Monte Carlo model. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998 , 32, 475-494	4.2	89
66	An Efficient Monte Carlo Model of Protein Chains. Modeling the Short-Range Correlations between Side Group Centers of Mass. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 4628-4637	3.4	34
65	Fold assembly of small proteins using monte carlo simulations driven by restraints derived from multiple sequence alignments. <i>Journal of Molecular Biology</i> , 1998 , 277, 419-48	6.5	79
64	Computer simulations of de novo designed helical proteins. <i>Biophysical Journal</i> , 1998 , 75, 92-105	2.9	22
63	Monte Carlo studies of the thermodynamics and kinetics of reduced protein models: Application to small helical, β and $\alpha\beta$ proteins. <i>Journal of Chemical Physics</i> , 1998 , 108, 2608-2617	3.9	44
62	Reduced protein models and their application to the protein folding problem. <i>Journal of Biomolecular Structure and Dynamics</i> , 1998 , 16, 381-96	3.6	15
61	Assembly of protein structure from sparse experimental data: An efficient Monte Carlo model 1998 , 32, 475		7
60	Determinants of secondary structure of polypeptide chains: Interplay between short range and burial interactions. <i>Journal of Chemical Physics</i> , 1997 , 107, 953-964	3.9	17
59	MONSSTER: a method for folding globular proteins with a small number of distance restraints. <i>Journal of Molecular Biology</i> , 1997 , 265, 217-41	6.5	234
58	Derivation and testing of pair potentials for protein folding. When is the quasichemical approximation correct?. <i>Protein Science</i> , 1997 , 6, 676-88	6.3	159
57	Algorithm for rapid reconstruction of protein backbone from alpha carbon coordinates. <i>Journal of Computational Chemistry</i> , 1997 , 18, 80-85	3.5	31
56	A method for the prediction of surface β -turns and transglobular connections in small proteins 1997 , 27, 290-308		26
55	Improved method for prediction of protein backbone U-turn positions and major secondary structural elements between U-turns. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997 , 29, 443-60	4.2	8
54	Collapse transitions in protein-like lattice polymers: The effect of sequence patterns. <i>Biopolymers</i> , 1997 , 42, 537-548	2.2	22
53	Monte Carlo lattice dynamics and the prediction of protein folds 1997 , 395-429		4
52	High coordination lattice models of protein structure, dynamics and thermodynamics. <i>Acta Biochimica Polonica</i> , 1997 , 44, 389-422	2	
51	Method for predicting the state of association of discretized protein models. Application to leucine zippers. <i>Biochemistry</i> , 1996 , 35, 955-67	3.2	20

50	Folding simulations and computer redesign of protein A three-helix bundle motifs. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996 , 25, 286-99	4.2	15
49	On the origin of the cooperativity of protein folding: implications from model simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996 , 26, 271-87	4.2	89
48	Does a backwardly read protein sequence have a unique native state?. <i>Protein Engineering, Design and Selection</i> , 1996 , 9, 5-14	1.9	50
47	Folding simulations and computer redesign of protein A three-helix bundle motifs. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996 , 25, 286-299	4.2	35
46	On the origin of the cooperativity of protein folding: Implications from model simulations 1996 , 26, 271		1
45	Are proteins ideal mixtures of amino acids? Analysis of energy parameter sets. <i>Protein Science</i> , 1995 , 4, 2107-17	6.3	131
44	Computer design of idealized motifs. <i>Journal of Chemical Physics</i> , 1995 , 103, 10286-10297	3.9	31
43	A reduced model of short range interactions in polypeptide chains. <i>Journal of Chemical Physics</i> , 1995 , 103, 4312-4323	3.9	33
42	A simple technique to estimate partition functions and equilibrium constants from Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 1995 , 102, 6189-6193	3.9	9
41	Neural network system for the evaluation of side-chain packing in protein structures. <i>Protein Engineering, Design and Selection</i> , 1995 , 8, 225-36	1.9	17
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