List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mapping coâ€regulatory interactions among ligandâ€binding sites in ryanodine receptor 1. Proteins: Structure, Function and Bioinformatics, 2022, 90, 385-394.	2.6	2
2	Yuel: Improving the Generalizability of Structure-Free Compound–Protein Interaction Prediction. Journal of Chemical Information and Modeling, 2022, 62, 463-471.	5.4	17
3	Toward rational vaccine engineering. Advanced Drug Delivery Reviews, 2022, 183, 114142.	13.7	10
4	Anhydrous Nucleic Acid Nanoparticles for Storage and Handling at Broad Range of Temperatures. Small, 2022, 18, e2104814.	10.0	13
5	NeuralDock: Rapid and Conformation-Agnostic Docking of Small Molecules. Frontiers in Molecular Biosciences, 2022, 9, 867241.	3.5	3
6	Design and engineering of allosteric communications in proteins. Current Opinion in Structural Biology, 2022, 73, 102334.	5.7	19
7	Identification of a Vitamin-D Receptor Antagonist, MeTC7, which Inhibits the Growth of Xenograft and Transgenic Tumors <i>In Vivo</i> . Journal of Medicinal Chemistry, 2022, 65, 6039-6055.	6.4	3
8	AlphaFold illuminates half of the dark human proteins. Current Opinion in Structural Biology, 2022, 74, 102372.	5.7	45
9	Multifunctions of αâ€ S ynuclein Explained by Its Dynamic Heterogeneous Conformations with a Hierarchy of Transition Times. FASEB Journal, 2022, 36, .	0.5	0
10	Toxic SOD1 trimers are off-pathway in the formation of amyloid-like fibrils in ALS. Biophysical Journal, 2022, 121, 2084-2095.	0.5	7
11	Evaluation of pH change effects on the HSA folding and its drug binding characteristics, a computational biology investigation. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1908-1925.	2.6	3
12	Predicting Protein–Ligand Docking Structure with Graph Neural Network. Journal of Chemical Information and Modeling, 2022, 62, 2923-2932.	5.4	23
13	Monosialotetrahexosylganglioside Promotes Early AÎ ² 42 Oligomer Formation and Maintenance. ACS Chemical Neuroscience, 2022, 13, 1979-1991.	3.5	6
14	Locking and Unlocking Thrombin Function Using Immunoquiescent Nucleic Acid Nanoparticles with Regulated Retention <i>In Vivo</i> . Nano Letters, 2022, 22, 5961-5972.	9.1	9
15	Alternative Splicing of Opioid Receptor Genes Shows a Conserved Pattern for 6TM Receptor Variants. Cellular and Molecular Neurobiology, 2021, 41, 1039-1055.	3.3	5
16	Prefusion spike protein stabilization through computational mutagenesis. Proteins: Structure, Function and Bioinformatics, 2021, 89, 399-408.	2.6	5
17	GPU-Accelerated Flexible Molecular Docking. Journal of Physical Chemistry B, 2021, 125, 1049-1060.	2.6	14
18	SOD1 oligomers in amyotrophic lateral sclerosis. Current Opinion in Structural Biology, 2021, 66, 225-230.	5.7	17

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19	Modifications to the Framework Regions Eliminate Chimeric Antigen Receptor Tonic Signaling. Cancer Immunology Research, 2021, 9, 441-453.	3.4	25
20	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimer's Disease, Parkinson's Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. Chemical Reviews, 2021, 121, 2545-2647.	47.7	406
21	Engineering an Allosteric Control of Protein Function. Journal of Physical Chemistry B, 2021, 125, 1806-1814.	2.6	18
22	Nanoscale programming of cellular and physiological phenotypes: inorganic meets organic programming. Npj Systems Biology and Applications, 2021, 7, 15.	3.0	9
23	Identification and characterization of novel candidate compounds targeting 6―and 7â€ŧransmembrane μâ€opioid receptor isoforms. British Journal of Pharmacology, 2021, 178, 2709-2726.	5.4	4
24	Activating Sphingosine-1-phospahte signaling in endothelial cells increases myosin light chain phosphorylation to decrease endothelial permeability thereby inhibiting cancer metastasis. Cancer Letters, 2021, 506, 107-119.	7.2	4
25	Direct Mapping of Higher-Order RNA Interactions by SHAPE-JuMP. Biochemistry, 2021, 60, 1971-1982.	2.5	24
26	Titr-DMD—A Rapid, Coarse-Grained Quasi-All-Atom Constant pH Molecular Dynamics Framework. Journal of Chemical Theory and Computation, 2021, 17, 4538-4549.	5.3	6
27	Structure of prion βâ€oligomers as determined by shortâ€distance crosslinking constraintâ€guided discrete molecular dynamics simulations. Proteomics, 2021, 21, e2000298.	2.2	10
28	The structural heterogeneity of α-synuclein is governed by several distinct subpopulations with interconversion times slower than milliseconds. Structure, 2021, 29, 1048-1064.e6.	3.3	32
29	Searching for methyllysine-binding aromatic cages. Biochemical Journal, 2021, 478, 3613-3619.	3.7	3
30	Mechanical Counterbalance of Kinesin and Dynein Motors in a Microtubular Network Regulates Cell Mechanics, 3D Architecture, and Mechanosensing. ACS Nano, 2021, 15, 17528-17548.	14.6	9
31	Invited: Drug Discovery Approaches using Quantum Machine Learning. , 2021, , .		12
32	IL-1 Via IRAK1/4 Sustains Acute Myeloid Leukemia Stem Cells Following Treatment and Relapse. Blood, 2021, 138, 1175-1175.	1.4	1
33	Two-input protein logic gate for computation in living cells. Nature Communications, 2021, 12, 6615.	12.8	20
34	Development of a Novel Multi-Isoform ALDH Inhibitor Effective as an Antimelanoma Agent. Molecular Cancer Therapeutics, 2020, 19, 447-459.	4.1	15
35	Ligand-induced disorder-to-order transitions characterized by structural proteomics and molecular dynamics simulations. Journal of Proteomics, 2020, 211, 103544.	2.4	10
36	Guiding Conventional Protein–Ligand Docking Software with Convolutional Neural Networks. Journal of Chemical Information and Modeling, 2020, 60, 4594-4602.	5.4	15

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37	Molecular Design for Research and Therapeutics. Biophysical Journal, 2020, 118, 42a.	0.5	Ο
38	Mapping allosteric communications within individual proteins. Nature Communications, 2020, 11, 3862.	12.8	101
39	Rational design and implementation of a chemically inducible heterotrimerization system. Nature Methods, 2020, 17, 928-936.	19.0	30
40	ASR490, a Small Molecule, Overrides Aberrant Expression of <i>Notch1</i> in Colorectal Cancer. Molecular Cancer Therapeutics, 2020, 19, 2422-2431.	4.1	4
41	RNA-Puzzles Round IV: 3D structure predictions of four ribozymes and two aptamers. Rna, 2020, 26, 982-995.	3.5	100
42	Various miRNAs compensate the role of miR-122 on HCV replication. PLoS Pathogens, 2020, 16, e1008308.	4.7	14
43	Single-channel properties of skeletal muscle ryanodine receptor pore Δ4923FF4924 in two brothers with a lethal form of fetal akinesia. Cell Calcium, 2020, 87, 102182.	2.4	6
44	Experimentally-driven protein structure modeling. Journal of Proteomics, 2020, 220, 103777.	2.4	21
45	β-Methylamino-L-alanine substitution of serine in SOD1 suggests a direct role in ALS etiology. PLoS Computational Biology, 2019, 15, e1007225.	3.2	27
46	Inter-Active Site Communication Mediated by the Dimer Interface β-Sheet in the Half-the-Sites Enzyme, Thymidylate Synthase. Biochemistry, 2019, 58, 3302-3313.	2.5	9
47	Insight into the Structure of the "Unstructured―Tau Protein. Structure, 2019, 27, 1710-1715.e4.	3.3	39
48	Computationally Guided Design of Single-Chain Variable Fragment Improves Specificity of Chimeric Antigen Receptors. Molecular Therapy - Oncolytics, 2019, 15, 30-37.	4.4	20
49	Distinct Binding Modes of Vinculin Isoforms Underlie Their Functional Differences. Structure, 2019, 27, 1527-1536.e3.	3.3	4
50	A central core disease mutation in the Ca ²⁺ -binding site of skeletal muscle ryanodine receptor impairs single-channel regulation. American Journal of Physiology - Cell Physiology, 2019, 317, C358-C365.	4.6	22
51	Stabilization of μâ€opioid receptor facilitates its cellular translocation and signaling. Proteins: Structure, Function and Bioinformatics, 2019, 87, 878-884.	2.6	6
52	Limits in accuracy and a strategy of RNA structure prediction using experimental information. Nucleic Acids Research, 2019, 47, 5563-5572.	14.5	10
53	Engineering proteins for allosteric control by light or ligands. Nature Protocols, 2019, 14, 1863-1883.	12.0	46
54	Molecular mechanisms of heterogeneous oligomerization of huntingtin proteins. Scientific Reports, 2019, 9, 7615.	3.3	21

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55	Mutation Analysis of the Calcium Binding Site of Skeletal Muscle Ryanodine Receptor Calcium Release Channel. Biophysical Journal, 2019, 116, 520a-521a.	0.5	0
56	Uncovered Dynamic Coupling Resolves the Ambiguous Mechanism of Phenylalanine Hydroxylase Oxygen Binding. Journal of Physical Chemistry B, 2019, 123, 4534-4539.	2.6	7
57	Viral DNA Binding to NLRC3, an Inhibitory Nucleic Acid Sensor, Unleashes STING, a Cyclic Dinucleotide Receptor that Activates Type I Interferon. Immunity, 2019, 50, 591-599.e6.	14.3	58
58	Cardiomyopathy Mutations in Metavinculin Disrupt Regulation of Vinculin-Induced F-Actin Assemblies. Journal of Molecular Biology, 2019, 431, 1604-1618.	4.2	11
59	Conformational ensemble of native α-synuclein in solution as determined by short-distance crosslinking constraint-guided discrete molecular dynamics simulations. PLoS Computational Biology, 2019, 15, e1006859.	3.2	55
60	MedusaDock 2.0: Efficient and Accurate Protein–Ligand Docking With Constraints. Journal of Chemical Information and Modeling, 2019, 59, 2509-2515.	5.4	46
61	MERTK mediated novel site Akt phosphorylation alleviates SAV1 suppression. Nature Communications, 2019, 10, 1515.	12.8	25
62	Allostery in Its Many Disguises: From Theory to Applications. Structure, 2019, 27, 566-578.	3.3	285
63	Rationally designed carbohydrate-occluded epitopes elicit HIV-1 Env-specific antibodies. Nature Communications, 2019, 10, 948.	12.8	19
64	RNA–DNA fibers and polygons with controlled immunorecognition activate RNAi, FRET and transcriptional regulation of NF-κB in human cells. Nucleic Acids Research, 2019, 47, 1350-1361.	14.5	64
65	Large SOD1 aggregates, unlike trimeric SOD1, do not impact cell viability in a model of amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4661-4665.	7.1	77
66	Mapping allosteric linkage to channel gating by extracellular domains in the human epithelial sodium channel. Journal of Biological Chemistry, 2018, 293, 3675-3684.	3.4	0
67	High-speed atomic force microscopy reveals structural dynamics of α-synuclein monomers and dimers. Journal of Chemical Physics, 2018, 148, 123322.	3.0	57
68	Tyrosine phosphorylation switching of a G protein. Journal of Biological Chemistry, 2018, 293, 4752-4766.	3.4	23
69	G4941K substitution in the pore-lining S6 helix of the skeletal muscle ryanodine receptor increases RyR1 sensitivity to cytosolic and luminal Ca2+. Journal of Biological Chemistry, 2018, 293, 2015-2028.	3.4	10
70	Structural complexity and functional diversity of plant NADPH oxidases. Amino Acids, 2018, 50, 79-94.	2.7	31
71	Ca2+-mediated activation of the skeletal-muscle ryanodine receptor ion channel. Journal of Biological Chemistry, 2018, 293, 19501-19509.	3.4	27
72	Reversible and Tunable Photoswitching of Protein Function through Genetic Encoding of Azobenzene Amino Acids in Mammalian Cells. ChemBioChem, 2018, 19, 2178-2185.	2.6	40

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73	Computational design of chemogenetic and optogenetic split proteins. Nature Communications, 2018, 9, 4042.	12.8	75
74	RNA Fibers as Optimized Nanoscaffolds for siRNA Coordination and Reduced Immunological Recognition. Advanced Functional Materials, 2018, 28, 1805959.	14.9	57
75	miRNA-711 Binds and Activates TRPA1 Extracellularly to Evoke Acute and Chronic Pruritus. Neuron, 2018, 99, 449-463.e6.	8.1	79
76	Vinculin and its Fundamental Role in Actin Bundling Formation. Biophysical Journal, 2018, 114, 27a.	0.5	1
77	Ligand binding to a remote site thermodynamically corrects the F508del mutation in the human cystic fibrosis transmembrane conductance regulator. Journal of Biological Chemistry, 2018, 293, 17685-17704.	3.4	9
78	Elicitation of HIVâ€specific Antibodies Targeting The Carbohydrateâ€Occluded Neutralization Epitopes Through Rational Protein Design. FASEB Journal, 2018, 32, 798.14.	0.5	1
79	A Structural Model for Vinculin Insertion into PIP2-Containing Membranes and the Effect of Insertion on Vinculin Activation and Localization. Structure, 2017, 25, 264-275.	3.3	23
80	RNA-Puzzles Round III: 3D RNA structure prediction of five riboswitches and one ribozyme. Rna, 2017, 23, 655-672.	3.5	158
81	Comparative Visualization of the RNA Suboptimal Conformational Ensemble InÂVivo. Biophysical Journal, 2017, 113, 290-301.	0.5	35
82	Protein folding: Over half a century lasting quest. Physics of Life Reviews, 2017, 21, 72-74.	2.8	2
83	Physicochemical code for quinary protein interactions in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4556-E4563.	7.1	103
84	Ion-pulling simulations provide insights into the mechanisms of channel opening of the skeletal muscle ryanodine receptor. Journal of Biological Chemistry, 2017, 292, 12947-12958.	3.4	11
85	Engineering Pak1 Allosteric Switches. ACS Synthetic Biology, 2017, 6, 1257-1262.	3.8	26
86	Computational Protein Design Through Grafting and Stabilization. Methods in Molecular Biology, 2017, 1529, 227-241.	0.9	6
87	Solving protein structures using short-distance cross-linking constraints as a guide for discrete molecular dynamics simulations. Science Advances, 2017, 3, e1700479.	10.3	80
88	Molecular Mechanisms of the R61T Mutation in Apolipoprotein E4: A Dynamic Rescue. Biophysical Journal, 2017, 113, 2192-2198.	0.5	2
89	Redundant Functions for Nap1 and Chz1 in H2A.Z Deposition. Scientific Reports, 2017, 7, 10791.	3.3	13
90	Predicting the functional consequences of non-synonymous single nucleotide polymorphisms in IL8 gene. Scientific Reports, 2017, 7, 6525.	3.3	75

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91	Direct identification of base-paired RNA nucleotides by correlated chemical probing. Rna, 2017, 23, 6-13.	3.5	31
92	Transmembrane helical interactions in the CFTR channel pore. PLoS Computational Biology, 2017, 13, e1005594.	3.2	9
93	Structure modeling of RNA using sparse NMR constraints. Nucleic Acids Research, 2017, 45, 12638-12647.	14.5	15
94	Structural and functional interactions between six-transmembrane μ-opioid receptors and β2-adrenoreceptors modulate opioid signaling. Scientific Reports, 2016, 5, 18198.	3.3	34
95	Engineering extrinsic disorder to control protein activity in living cells. Science, 2016, 354, 1441-1444.	12.6	185
96	Role of PIP2-Dependent Membrane Interactions in Vinculin Activation, Motility and Force Transmission. Biophysical Journal, 2016, 110, 575a.	0.5	0
97	Docking and Scoring with Target-Specific Pose Classifier Succeeds in Native-Like Pose Identification But Not Binding Affinity Prediction in the CSAR 2014 Benchmark Exercise. Journal of Chemical Information and Modeling, 2016, 56, 1032-1041.	5.4	15
98	Pharmacological Chaperones: Design and Development of New Therapeutic Strategies for the Treatment of Conformational Diseases. ACS Chemical Biology, 2016, 11, 1471-1489.	3.4	85
99	Computational Modeling of Small Molecule Ligand Binding Interactions and Affinities. Methods in Molecular Biology, 2016, 1414, 23-32.	0.9	4
100	Restoration of R117H CFTR folding and function in human airway cells through combination treatment with VX-809 and VX-770. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L550-L559.	2.9	42
101	A Phosphomimetic Mutation Stabilizes SOD1 and Rescues Cell Viability in the Context of an ALS-Associated Mutation. Structure, 2016, 24, 1898-1906.	3.3	41
102	Harnessing Nature's Diversity: Discovering organophosphate bioscavenger characteristics among low molecular weight proteins. Scientific Reports, 2016, 6, 37175.	3.3	10
103	A modified PATH algorithm rapidly generates transition states comparable to those found by other well established algorithms. Structural Dynamics, 2016, 3, 012101.	2.3	26
104	A hidden aggregationâ€prone structure in the heart of hypoxia inducible factor prolyl hydroxylase. Proteins: Structure, Function and Bioinformatics, 2016, 84, 611-623.	2.6	2
105	Controlling Allosteric Networks in Proteins. Chemical Reviews, 2016, 116, 6463-6487.	47.7	207
106	Gain-of-Function Mutation W493R in the Epithelial Sodium Channel Allosterically Reconfigures Intersubunit Coupling. Journal of Biological Chemistry, 2016, 291, 3682-3692.	3.4	6
107	Nonnative SOD1 trimer is toxic to motor neurons in a model of amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 614-619.	7.1	97
108	Protein Destabilization as a Common Factor in Diverse Inherited Disorders. Journal of Molecular Evolution, 2016, 82, 11-16.	1.8	52

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109	Applications of Discrete Molecular Dynamics in biology and medicine. Current Opinion in Structural Biology, 2016, 37, 9-13.	5.7	59
110	Dynamic Docking of Conformationally Constrained Macrocycles: Methods and Applications. ACS Chemical Biology, 2016, 11, 10-24.	3.4	39
111	W493R Gain of Function Mutation in Atypical Cystic Fibrosis Rewires the Epithelial Sodium Channel Dynamics. Biophysical Journal, 2015, 108, 583a-584a.	0.5	Ο
112	New Models for Regulation of Vinculin by Actin and Phospholipids. Biophysical Journal, 2015, 108, 508a-509a.	0.5	0
113	COMT gene locus. Pain, 2015, 156, 2072-2083.	4.2	28
114	ApoE4-specific Misfolded Intermediate Identified by Molecular Dynamics Simulations. PLoS Computational Biology, 2015, 11, e1004359.	3.2	21
115	Differential Regulation of 6- and 7-Transmembrane Helix Variants of μ-Opioid Receptor in Response to Morphine Stimulation. PLoS ONE, 2015, 10, e0142826.	2.5	14
116	Differences in the Antinociceptive Effects and Binding Properties of Propranolol and Bupranolol Enantiomers. Journal of Pain, 2015, 16, 1321-1333.	1.4	27
117	Computational Methods Toward Accurate RNA Structure Prediction Using Coarse-Grained and All-Atom Models. Methods in Enzymology, 2015, 553, 65-89.	1.0	13
118	Light-cleavable rapamycin dimer as an optical trigger for protein dimerization. Chemical Communications, 2015, 51, 5702-5705.	4.1	41
119	Channel Gating Dependence on Pore Lining Helix Glycine Residues in Skeletal Muscle Ryanodine Receptor. Journal of Biological Chemistry, 2015, 290, 17535-17545.	3.4	17
120	Non-canonical Bromodomain within DNA-PKcs Promotes DNA Damage Response and Radioresistance through Recognizing an IR-Induced Acetyl-Lysine on H2AX. Chemistry and Biology, 2015, 22, 849-861.	6.0	15
121	iFoldRNA v2: folding RNA with constraints. Bioinformatics, 2015, 31, 2891-2893.	4.1	96
122	Modeling the Calcium and Integrin Binding Protein 2. Biophysical Journal, 2015, 108, 213a.	0.5	0
123	<i>RNA-Puzzles</i> Round II: assessment of RNA structure prediction programs applied to three large RNA structures. Rna, 2015, 21, 1066-1084.	3.5	161
124	μ-Opioid receptor 6-transmembrane isoform: A potential therapeutic target for new effective opioids. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2015, 62, 61-67.	4.8	26
125	Rational coupled dynamics network manipulation rescues disease-relevant mutant cystic fibrosis transmembrane conductance regulator. Chemical Science, 2015, 6, 1237-1246.	7.4	49
126	PostÂtranslational Modifications Promote Formation of SOD1 Oligomers With Potential Toxicity in ALS. FASEB Journal, 2015, 29, 564.1.	0.5	0

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127	Cu,Zn-Superoxide Dismutase without Zn Is Folded but Catalytically Inactive. Journal of Molecular Biology, 2014, 426, 4112-4124.	4.2	47
128	The N-terminal Domain Allosterically Regulates Cleavage and Activation of the Epithelial Sodium Channel. Journal of Biological Chemistry, 2014, 289, 23029-23042.	3.4	12
129	Identification of an Actin Binding Surface on Vinculin that Mediates Mechanical Cell and Focal Adhesion Properties. Structure, 2014, 22, 697-706.	3.3	49
130	The maturation of HIVâ€1 protease precursor studied by discrete molecular dynamics. Proteins: Structure, Function and Bioinformatics, 2014, 82, 633-639.	2.6	10
131	Computational approaches to understanding protein aggregation in neurodegeneration. Journal of Molecular Cell Biology, 2014, 6, 104-115.	3.3	43
132	Intrinsic Disorder Mediates Cooperative Signal Transduction in STIM1. Journal of Molecular Biology, 2014, 426, 2082-2097.	4.2	24
133	Post-Translational Modifications Promote Formation of SOD1 Oligomers with Potential Toxicity in ALS. Biophysical Journal, 2014, 106, 33a-34a.	0.5	1
134	RNA Tertiary Structure Analysis by 2′-Hydroxyl Molecular Interference. Biochemistry, 2014, 53, 6825-6833.	2.5	17
135	Non-native Soluble Oligomers of Cu/Zn Superoxide Dismutase (SOD1) Contain a Conformational Epitope Linked to Cytotoxicity in Amyotrophic Lateral Sclerosis (ALS). Biochemistry, 2014, 53, 2423-2432.	2.5	41
136	Single-molecule correlated chemical probing of RNA. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13858-13863.	7.1	140
137	Potentiator ivacaftor abrogates pharmacological correction of ΔF508 CFTR in cystic fibrosis. Science Translational Medicine, 2014, 6, 246ra96.	12.4	279
138	Traffic within the Cytochrome b6f Lipoprotein Complex: Gating of the Quinone Portal. Biophysical Journal, 2014, 107, 1620-1628.	0.5	20
139	A Robust High-Throughput Assay for Thermodynamic Correctors of the Predominant Molecular Defect Causing Cystic Fibrosis. Biophysical Journal, 2014, 106, 432a.	O.5	0
140	Pore Dynamics and Conductance of RyR1 Transmembrane Domain. Biophysical Journal, 2014, 106, 2375-2384.	0.5	20
141	Discrete Molecular Dynamics Can Predict Helical Prestructured Motifs in Disordered Proteins. PLoS ONE, 2014, 9, e95795.	2.5	19
142	Predicting Binding Affinity of CSAR Ligands Using Both Structure-Based and Ligand-Based Approaches. Journal of Chemical Information and Modeling, 2013, 53, 1915-1922.	5.4	20
143	Identification of Novel Integrin Binding Partners for Calcium and Integrin Binding Protein 1 (CIB1): Structural and Thermodynamic Basis of CIB1 Promiscuity. Biochemistry, 2013, 52, 7082-7090.	2.5	21
144	Is Protein Destabilization a Widespread Factor in Genetic Disease?. Biophysical Journal, 2013, 104, 565a.	0.5	0

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145	Rational Design of a Ligand-Controlled Protein Conformational Switch. Biophysical Journal, 2013, 104, 18a-19a.	0.5	0
146	Generation of a Light Inhibited Src Kinase through Insertion of LOV into the Catalytic Domain. Biophysical Journal, 2013, 104, 679a.	0.5	0
147	Knowledge-Based Design of a Biosensor to Quantify Localized ERK Activation in Living Cells. Chemistry and Biology, 2013, 20, 847-856.	6.0	49
148	Principles for Understanding the Accuracy of SHAPE-Directed RNA Structure Modeling. Biochemistry, 2013, 52, 588-595.	2.5	41
149	Incorporating Backbone Flexibility in MedusaDock Improves Ligand-Binding Pose Prediction in the CSAR2011 Docking Benchmark. Journal of Chemical Information and Modeling, 2013, 53, 1871-1879.	5.4	37
150	Statistical Analysis of SHAPE-Directed RNA Secondary Structure Modeling. Biochemistry, 2013, 52, 596-599.	2.5	14
151	Structural Determinants of Skeletal Muscle Ryanodine Receptor Gating*. Journal of Biological Chemistry, 2013, 288, 6154-6165.	3.4	48
152	Metric to Distinguish Closely Related Domain Families Using Sequence Information. Journal of Molecular Biology, 2013, 425, 475-478.	4.2	0
153	Correctors of ΔF508 CFTR restore global conformational maturation without thermally stabilizing the mutant protein. FASEB Journal, 2013, 27, 536-545.	0.5	135
154	Highly covarying residues have a functional role in antibody constant domains. Proteins: Structure, Function and Bioinformatics, 2013, 81, 884-895.	2.6	5
155	Submillisecond Elastic Recoil Reveals Molecular Origins of Fibrin Fiber Mechanics. Biophysical Journal, 2013, 104, 2671-2680.	0.5	35
156	Rational design of a ligand-controlled protein conformational switch. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6800-6804.	7.1	111
157	Protein HP1028 from the human pathogen <i>Helicobacter pylori</i> belongs to the lipocalin family. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1387-1394.	2.5	3
158	Dynamics Intrinsic to Cystic Fibrosis Transmembrane Conductance Regulator Function and Stability. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a009522-a009522.	6.2	24
159	<i>RNA-Puzzles</i> : A CASP-like evaluation of RNA three-dimensional structure prediction. Rna, 2012, 18, 610-625.	3.5	241
160	Harnessing a Physiologic Mechanism for siRNA Delivery With Mimetic Lipoprotein Particles. Molecular Therapy, 2012, 20, 1582-1589.	8.2	65
161	Energetic and Structural Basis for Activation of the Epithelial Sodium Channel by Matriptase. Biochemistry, 2012, 51, 3460-3469.	2.5	24
162	New Models of Tetrahymena Telomerase RNA from Experimentally Derived Constraints and Modeling. Journal of the American Chemical Society, 2012, 134, 20070-20080.	13.7	19

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163	Discrete Molecular Dynamics Simulation of Biomolecules. Biological and Medical Physics Series, 2012, , 55-73.	0.4	13
164	Homology Modeling: Generating Structural Models to Understand Protein Function and Mechanism. Biological and Medical Physics Series, 2012, , 97-116.	0.4	9
165	Computational Modeling of Telomerase in Action. Biophysical Journal, 2012, 102, 732a.	0.5	0
166	Recognition of Platinum–DNA Adducts by HMGB1a. Biochemistry, 2012, 51, 7608-7617.	2.5	14
167	Physical Microscopic Model of Proteins Under Force. Journal of Physical Chemistry B, 2012, 116, 6806-6809.	2.6	0
168	Local Unfolding of Cu, Zn Superoxide Dismutase Monomer Determines the Morphology of Fibrillar Aggregates. Journal of Molecular Biology, 2012, 421, 548-560.	4.2	74
169	Allosteric Modulation Balances Thermodynamic Stability and Restores Function of ΔF508 CFTR. Journal of Molecular Biology, 2012, 419, 41-60.	4.2	90
170	The Complex Molecular Biology of Amyotrophic Lateral Sclerosis (ALS). Progress in Molecular Biology and Translational Science, 2012, 107, 215-262.	1.7	131
171	Discrete Molecular Dynamics Distinguishes Nativelike Binding Poses from Decoys in Difficult Targets. Biophysical Journal, 2012, 102, 144-151.	0.5	31
172	Hybrid Dynamics Simulation Engine for Metalloproteins. Biophysical Journal, 2012, 103, 767-776.	0.5	26
173	Discrete Molecular Dynamics: An Efficient And Versatile Simulation Method For Fine Protein Characterization. Journal of Physical Chemistry B, 2012, 116, 8375-8382.	2.6	179
174	Serotonin-Induced Hypersensitivity via Inhibition of Catechol O-Methyltransferase Activity. Molecular Pain, 2012, 8, 1744-8069-8-25.	2.1	16
175	Thermal Unfolding Pathway of PHD2 Catalytic Domain in Three Different PHD2 Species: Computational Approaches. PLoS ONE, 2012, 7, e47061.	2.5	4
176	The interface of protein structure, protein biophysics, and molecular evolution. Protein Science, 2012, 21, 769-785.	7.6	188
177	Multiscale Modeling of RNA Structure and Dynamics. Nucleic Acids and Molecular Biology, 2012, , 167-184.	0.2	3
178	Three-dimensional RNA structure refinement by hydroxyl radical probing. Nature Methods, 2012, 9, 603-608.	19.0	77
179	Cheminformatics Meets Molecular Mechanics: A Combined Application of Knowledge-Based Pose Scoring and Physical Force Field-Based Hit Scoring Functions Improves the Accuracy of Structure-Based Virtual Screening. Journal of Chemical Information and Modeling, 2012, 52, 16-28.	5.4	37
180	Intra- and Inter-Subunit Disulfide Bond Formation Is Nonessential in Adeno-Associated Viral Capsids. PLoS ONE, 2012, 7, e32163.	2.5	11

#	Article	IF	CITATIONS
181	Light Regulation of Protein Dimerization and Kinase Activity in Living Cells Using Photocaged Rapamycin and Engineered FKBP. Journal of the American Chemical Society, 2011, 133, 420-423.	13.7	140
182	Glutathionylation at Cys-111 Induces Dissociation of Wild Type and FALS Mutant SOD1 Dimers. Biochemistry, 2011, 50, 7057-7066.	2.5	75
183	A Physical Model Reveals the Mechanochemistry Responsible for Dynein's Processive Motion. Biophysical Journal, 2011, 101, 144-150.	0.5	11
184	Combined Application of Cheminformatics- and Physical Force Field-Based Scoring Functions Improves Binding Affinity Prediction for CSAR Data Sets. Journal of Chemical Information and Modeling, 2011, 51, 2027-2035.	5.4	23
185	Engineered Allosteric Activation of Kinases in Living Cells. Biophysical Journal, 2011, 100, 515a.	0.5	Ο
186	ATP hydrolysis at one of the two sites in ABC transporters initiates transport related conformational transitions. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2954-2964.	2.6	38
187	Structural and Thermodynamic Effects of Post-translational Modifications in Mutant and Wild Type Cu, Zn Superoxide Dismutase. Journal of Molecular Biology, 2011, 408, 555-567.	4.2	43
188	Approaches for probing the sequence space of substrates recognized by molecular chaperones. Methods, 2011, 53, 318-324.	3.8	0
189	Flanking Bases Influence the Nature of DNA Distortion by Platinum 1,2-Intrastrand (GG) Cross-Links. PLoS ONE, 2011, 6, e23582.	2.5	19
190	Structural Basis for μ-Opioid Receptor Binding and Activation. Structure, 2011, 19, 1683-1690.	3.3	30
191	Structural and Dynamic Determinants of Protein-Peptide Recognition. Structure, 2011, 19, 1837-1845.	3.3	79
192	Discrete molecular dynamics. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 80-92.	14.6	91
193	Regioselectivity of catechol O-methyltransferase confers enhancement of catalytic activity. Chemical Physics Letters, 2011, 506, 135-138.	2.6	17
194	Automated minimization of steric clashes in protein structures. Proteins: Structure, Function and Bioinformatics, 2011, 79, 261-270.	2.6	372
195	Fingerprintâ€based structure retrieval using electron density. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1002-1009.	2.6	8
196	Disruptive mRNA folding increases translational efficiency of catechol-O-methyltransferase variant. Nucleic Acids Research, 2011, 39, 6201-6212.	14.5	51
197	Rigid substructure search. Bioinformatics, 2011, 27, 1327-1329.	4.1	28
198	Thermodynamic Stability of Histone H3 Is a Necessary but not Sufficient Driving Force for its Evolutionary Conservation. PLoS Computational Biology, 2011, 7, e1001042.	3.2	20

#	Article	IF	CITATIONS
199	Gaia: automated quality assessment of protein structure models. Bioinformatics, 2011, 27, 2209-2215.	4.1	44
200	Molecular Modeling Tools and Approaches for CFTR and Cystic Fibrosis. Methods in Molecular Biology, 2011, 741, 347-363.	0.9	2
201	A Folding Pathway-Dependent Score to Recognize Membrane Proteins. PLoS ONE, 2011, 6, e16778.	2.5	3
202	Structural Mechanism of S-Adenosyl Methionine Binding to Catechol O-Methyltransferase. PLoS ONE, 2011, 6, e24287.	2.5	31
203	Regulation of the epithelial Na+ channel and airway surface liquid volume by serine proteases. Pflugers Archiv European Journal of Physiology, 2010, 460, 1-17.	2.8	79
204	Nâ€ŧerminal strands of filamin Ig domains act as a conformational switch under biological forces. Proteins: Structure, Function and Bioinformatics, 2010, 78, 12-24.	2.6	29
205	Engineered allosteric activation of kinases in living cells. Nature Biotechnology, 2010, 28, 743-747.	17.5	177
206	A Didactic Model of Macromolecular Crowding Effects on Protein Folding. PLoS ONE, 2010, 5, e11936.	2.5	19
207	Isoform Divergence of the Filamin Family of Proteins. Molecular Biology and Evolution, 2010, 27, 283-295.	8.9	19
208	Multiscale Modeling and Design of Molecular Conformational States. Biophysical Journal, 2010, 98, 633a.	0.5	0
209	A Coupling of Structural and Kinetic Models Reveals the Stepping Mechanics of Dynein. Biophysical Journal, 2010, 98, 613a.	0.5	0
210	Robust and Generic RNA Modeling Using Inferred Constraints: A Structure for the Hepatitis C Virus IRES Pseudoknot Domain. Biochemistry, 2010, 49, 4931-4933.	2.5	31
211	Computational Design of a PAK1 Binding Protein. Journal of Molecular Biology, 2010, 400, 257-270.	4.2	69
212	Regulatory Insertion Removal Restores Maturation, Stability and Function of ΔF508 CFTR. Journal of Molecular Biology, 2010, 401, 194-210.	4.2	105
213	On the significance of an RNA tertiary structure prediction. Rna, 2010, 16, 1340-1349.	3.5	103
214	Rapid Flexible Docking Using a Stochastic Rotamer Library of Ligands. Journal of Chemical Information and Modeling, 2010, 50, 1623-1632.	5.4	80
215	Macromolecular crowding induces polypeptide compaction and decreases folding cooperativity. Physical Chemistry Chemical Physics, 2010, 12, 3491.	2.8	33
216	Computational Evaluation of Protein Stability Change upon Mutations. Methods in Molecular Biology, 2010, 634, 189-201.	0.9	7

#	Article	IF	CITATIONS
217	Polyglutamine Induced Misfolding of Huntingtin Exon1 is Modulated by the Flanking Sequences. PLoS Computational Biology, 2010, 6, e1000772.	3.2	86
218	Fast screening of protein surfaces using geometric invariant fingerprints. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16622-16626.	7.1	58
219	G Protein Mono-ubiquitination by the Rsp5 Ubiquitin Ligase. Journal of Biological Chemistry, 2009, 284, 8940-8950.	3.4	25
220	Identification of a consensus motif in substrates bound by a Type I Hsp40. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11073-11078.	7.1	37
221	Modifications of Superoxide Dismutase (SOD1) in Human Erythrocytes. Journal of Biological Chemistry, 2009, 284, 13940-13947.	3.4	106
222	Kinetic models for the coordinated stepping of cytoplasmic dynein. Journal of Chemical Physics, 2009, 130, 025101.	3.0	19
223	A Structural Model of the Pore-Forming Region of the Skeletal Muscle Ryanodine Receptor (RyR1). PLoS Computational Biology, 2009, 5, e1000367.	3.2	25
224	BiPS, a Photocleavable, Isotopically Coded, Fluorescent Cross-linker for Structural Proteomics. Molecular and Cellular Proteomics, 2009, 8, 273-286.	3.8	55
225	Thermodynamics of calmodulin binding to cardiac and skeletal muscle ryanodine receptor ion channels. Proteins: Structure, Function and Bioinformatics, 2009, 74, 207-211.	2.6	15
226	A cost effectiveness analysis of omitting radiography in diagnosis of acute bronchiolitis. Pediatric Pulmonology, 2009, 44, 122-127.	2.0	27
227	Community-wide assessment of GPCR structure modelling and ligand docking: GPCR Dock 2008. Nature Reviews Drug Discovery, 2009, 8, 455-463.	46.4	260
228	Ryanodine Receptor Pore Structure and Function. Biophysical Journal, 2009, 96, 107a.	0.5	1
229	Structural basis for the sequence-dependent effects of platinum–DNA adducts. Nucleic Acids Research, 2009, 37, 2434-2448.	14.5	27
230	Native-like RNA Tertiary Structures Using a Sequence-Encoded Cleavage Agent and Refinement by Discrete Molecular Dynamics. Journal of the American Chemical Society, 2009, 131, 2541-2546.	13.7	65
231	Multiscale approaches for studying energy transduction in dynein. Physical Chemistry Chemical Physics, 2009, 11, 4840.	2.8	14
232	Phenylalanine 508 Forms Intra-domain Contact Crucial To CFTR Folding And Dynamics. Biophysical Journal, 2009, 96, 382a.	0.5	0
233	Differences in Conformation and Conformational Dynamics Between Cisplatin and Oxaliplatin DNA Adducts. , 2009, , 157-169.		1
234	Ab Initio Folding of Proteins with All-Atom Discrete Molecular Dynamics. Structure, 2008, 16, 1010-1018.	3.3	287

#	Article	IF	CITATIONS
235	DNA Sequence Mediates Nucleosome Structure and Stability. Biophysical Journal, 2008, 94, 1-3.	0.5	2
236	Computational Studies Reveal Phosphorylation-dependent Changes in the Unstructured R Domain of CFTR. Journal of Molecular Biology, 2008, 378, 1052-1063.	4.2	54
237	Protein folding: Then and now. Archives of Biochemistry and Biophysics, 2008, 469, 4-19.	3.0	88
238	MedusaScore: An Accurate Force Field-Based Scoring Function for Virtual Drug Screening. Journal of Chemical Information and Modeling, 2008, 48, 1656-1662.	5.4	165
239	Multiple Membrane-Cytoplasmic Domain Contacts in the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Mediate Regulation of Channel Gating. Journal of Biological Chemistry, 2008, 283, 26383-26390.	3.4	109
240	Interaction with the 5D3 Monoclonal Antibody Is Regulated by Intramolecular Rearrangements but Not by Covalent Dimer Formation of the Human ABCG2 Multidrug Transporter. Journal of Biological Chemistry, 2008, 283, 26059-26070.	3.4	37
241	Dynamical roles of metal ions and the disulfide bond in Cu, Zn superoxide dismutase folding and aggregation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19696-19701.	7.1	131
242	Ab initio RNA folding by discrete molecular dynamics: From structure prediction to folding mechanisms. Rna, 2008, 14, 1164-1173.	3.5	258
243	Identification and Rational Redesign of Peptide Ligands to CRIP1, A Novel Biomarker for Cancers. PLoS Computational Biology, 2008, 4, e1000138.	3.2	53
244	iFoldRNA: three-dimensional RNA structure prediction and folding. Bioinformatics, 2008, 24, 1951-1952.	4.1	200
245	Phenylalanine-508 mediates a cytoplasmic–membrane domain contact in the CFTR 3D structure crucial to assembly and channel function. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3256-3261.	7.1	354
246	Diminished Self-Chaperoning Activity of the ΔF508 Mutant of CFTR Results in Protein Misfolding. PLoS Computational Biology, 2008, 4, e1000008.	3.2	46
247	Natural Selection against Protein Aggregation on Self-Interacting and Essential Proteins in Yeast, Fly, and Worm. Molecular Biology and Evolution, 2008, 25, 1530-1533.	8.9	61
248	Active Nuclear Receptors Exhibit Highly Correlated AF-2 Domain Motions. PLoS Computational Biology, 2008, 4, e1000111.	3.2	42
249	Probing protein aggregation using discrete molecular dynamics. Frontiers in Bioscience - Landmark, 2008, Volume, 4795.	3.0	21
250	Molecular Mechanisms of Polypeptide Aggregation in Human Diseases. Current Protein and Peptide Science, 2007, 8, 573-579.	1.4	22
251	Insights into thermophilic archaebacterial membrane stability from simplified models of lipid membranes. Physical Review E, 2007, 75, 051921.	2.1	15
252	The Length Dependence of the PolyQ-mediated Protein Aggregation. Journal of Biological Chemistry, 2007, 282, 25487-25492.	3.4	40

#	Article	IF	CITATIONS
253	Molecular Dynamic Simulations of Cisplatin- and Oxaliplatin-d(GG) Intrastand Cross-links Reveal Differences in their Conformational Dynamics. Journal of Molecular Biology, 2007, 373, 1123-1140.	4.2	46
254	Parallel Folding Pathways in the SH3 Domain Protein. Journal of Molecular Biology, 2007, 373, 1348-1360.	4.2	29
255	Fidelity of the Protein Structure Reconstruction from Inter-Residue Proximity Constraints. Journal of Physical Chemistry B, 2007, 111, 7432-7438.	2.6	23
256	Multiscale Modeling of Nucleosome Dynamics. Biophysical Journal, 2007, 92, 1457-1470.	0.5	104
257	Deciphering Protein Dynamics from NMR Data Using Explicit Structure Sampling and Selection. Biophysical Journal, 2007, 93, 2300-2306.	0.5	72
258	Towards Unifying Protein Evolution Theory. Biological and Medical Physics Series, 2007, , 113-126.	0.4	0
259	Similarity and dissimilarity in correlations of genomic DNA. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 497-502.	2.6	9
260	Eris: an automated estimator of protein stability. Nature Methods, 2007, 4, 466-467.	19.0	355
261	Modeling Backbone Flexibility Improves Protein Stability Estimation. Structure, 2007, 15, 1567-1576.	3.3	147
262	A molecular switch ―insights into allosteric control of vinculin function from inâ€silico study of its largeâ€scale conformational dynamics. FASEB Journal, 2007, 21, A270.	0.5	0
263	Multiscalar nucleosome dynamics in silico ―Role of DNA and histone tails. FASEB Journal, 2007, 21, .	0.5	0
264	FALS mutations in Cu, Zn superoxide dismutase destabilize the dimer and increase dimer dissociation propensity: A large-scale thermodynamic analysis. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2006, 13, 226-235	3.0	52
265	Combining Fluorescence Detection and Mass Spectrometric Analysis for Comprehensive and Quantitative Analysis of Redox-Sensitive Cysteines in Native Membrane Proteins. Analytical Chemistry, 2006, 78, 7959-7966.	6.5	29
266	The path of DNA in the kinetochore. Current Biology, 2006, 16, R276-R278.	3.9	35
267	Studies of folding and misfolding using simplified models. Current Opinion in Structural Biology, 2006, 16, 79-85.	5.7	67
268	Topological Determinants of Protein Domain Swapping. Structure, 2006, 14, 5-14.	3.3	73
269	The coordinated evolution of yeast proteins is constrained by functional modularity. Trends in Genetics, 2006, 22, 416-419.	6.7	60
270	Emergence of Protein Fold Families through Rational Design. PLoS Computational Biology, 2006, 2, e85.	3.2	177

#	Article	IF	CITATIONS
271	Common dynamical signatures of familial amyotrophic lateral sclerosis-associated structurally diverse Cu, Zn superoxide dismutase mutants. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3147-3152.	7.1	94
272	iFold: a platform for interactive folding simulations of proteins. Bioinformatics, 2006, 22, 2693-2694.	4.1	27
273	A structural model reveals energy transduction in dynein. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18540-18545.	7.1	34
274	Fast complementation of split fluorescent protein triggered by DNA hybridization. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2052-2056.	7.1	73
275	Insights into Allosteric Control of Vinculin Function from Its Large Scale Conformational Dynamics. Journal of Biological Chemistry, 2006, 281, 29148-29154.	3.4	30
276	Scale-Free Evolution. , 2006, , 86-105.		2
277	Scaling Behavior and Structure of Denatured Proteins. Structure, 2005, 13, 1047-1054.	3.3	58
278	Simple but predictive protein models. Trends in Biotechnology, 2005, 23, 450-455.	9.3	73
279	Sequence and structural determinants of Cu, Zn superoxide dismutase aggregation. Proteins: Structure, Function and Bioinformatics, 2005, 61, 617-632.	2.6	35
280	Molecular Origin of Polyglutamine Aggregation in Neurodegenerative Diseases. PLoS Computational Biology, 2005, 1, e30.	3.2	92
281	Direct Observation of Protein Folding, Aggregation, and a Prion-like Conformational Conversion. Journal of Biological Chemistry, 2005, 280, 40235-40240.	3.4	77
282	Reconstruction of the src-SH3 Protein Domain Transition State Ensemble using Multiscale Molecular Dynamics Simulations. Journal of Molecular Biology, 2005, 350, 1035-1050.	4.2	72
283	A Single Disulfide Bond Differentiates Aggregation Pathways of ß2-Microglobulin. Journal of Molecular Biology, 2005, 354, 473-482.	4.2	52
284	The architecture of the protein domain universe. Gene, 2005, 347, 199-206.	2.2	19
285	Folding Trp-Cage to NMR Resolution Native Structure Using a Coarse-Grained Protein Model. Biophysical Journal, 2005, 88, 147-155.	0.5	130
286	Molecular origin of polyglutamine aggregation in neurodegenerative diseases. PLoS Computational Biology, 2005, preprint, e30.	3.2	0
287	The evolution dynamics of model proteins. Journal of Chemical Physics, 2004, 121, 2381-2389.	3.0	8
288	Discrete molecular dynamics simulations of peptide aggregation. Physical Review E, 2004, 69, 041908.	2.1	74

#	Article	IF	CITATIONS
289	Imprint of evolution on protein structures. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2846-2851.	7.1	55
290	The rate and equilibrium constants for a multistep reaction sequence for the aggregation of superoxide dismutase in amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15094-15099.	7.1	137
291	New Insights into FAK Signaling and Localization Based on Detection of a FAT Domain Folding Intermediate. Structure, 2004, 12, 2161-2171.	3.3	62
292	What is the protein design alphabet?. Proteins: Structure, Function and Bioinformatics, 2004, 54, 622-628.	2.6	9
293	Multiple Folding Pathways of the SH3 Domain. Biophysical Journal, 2004, 87, 521-533.	0.5	38
294	Molecular Dynamics Simulation of Amyloid \hat{I}^2 Dimer Formation. Biophysical Journal, 2004, 87, 2310-2321.	0.5	194
295	Can Contact Potentials Reliably Predict Stability of Proteins?. Journal of Molecular Biology, 2004, 336, 1223-1238.	4.2	69
296	Possible Mechanism for Cold Denaturation of Proteins at High Pressure. Physical Review Letters, 2003, 91, 138103.	7.8	95
297	Hierarchy in social organization. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 653-659.	2.6	38
298	Mechanism for the ?-helix to ?-hairpin transition. Proteins: Structure, Function and Bioinformatics, 2003, 53, 220-228.	2.6	252
299	Folding of Cu, Zn Superoxide Dismutase and Familial Amyotrophic Lateral Sclerosis. Journal of Molecular Biology, 2003, 334, 515-525.	4.2	59
300	Functional Fingerprints of Folds: Evidence for Correlated Structure–Function Evolution. Journal of Molecular Biology, 2003, 326, 1-9.	4.2	50
301	Protein Evolution within a Structural Space. Biophysical Journal, 2003, 85, 2962-2972.	0.5	37
302	Postbreakthrough behavior in flow through porous media. Physical Review E, 2003, 67, 056314.	2.1	23
303	Using protein design for homology detection and active site searches. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11361-11366.	7.1	24
304	Identifying Importance of Amino Acids for Protein Folding from Crystal Structures. Methods in Enzymology, 2003, 374, 616-638.	1.0	12
305	Glassy behavior of a homopolymer from molecular dynamics simulations. Physical Review E, 2002, 65, 030801.	2.1	21
306	Expanding protein universe and its origin from the biological Big Bang. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14132-14136.	7.1	174

#	Article	IF	CITATIONS
307	Topological determinants of protein folding. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8637-8641.	7.1	278
308	Small-world view of the amino acids that play a key role in protein folding. Physical Review E, 2002, 65, 061910.	2.1	336
309	Thermodynamics and Folding Kinetics Analysis of the SH3 Domain form Discrete Molecular Dynamics. Journal of Molecular Biology, 2002, 318, 863-876.	4.2	54
310	Molecular Dynamics Simulation of the SH3 Domain Aggregation Suggests a Generic Amyloidogenesis Mechanism. Journal of Molecular Biology, 2002, 324, 851-857.	4.2	157
311	Direct Molecular Dynamics Observation of Protein Folding Transition State Ensemble. Biophysical Journal, 2002, 83, 3525-3532.	0.5	133
312	Understanding conserved amino acids in proteins. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 600-606.	2.6	17
313	Using percolation theory to predict oil field performance. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 103-108.	2.6	15
314	Uncertainty in oil production predicted by percolation theory. Physica A: Statistical Mechanics and Its Applications, 2002, 306, 376-380.	2.6	19
315	Understanding hierarchical protein evolution from first principles 1 1Edited by J. Thornton. Journal of Molecular Biology, 2001, 312, 289-307.	4.2	158
316	Predicting oil recovery using percolation theory. Petroleum Geoscience, 2001, 7, .	1.5	37
317	Thermodynamically important contacts in folding of model proteins. Physical Review E, 2001, 63, 032901.	2.1	9
318	Distributions of Dimeric Tandem Repeats in Non-coding and Coding DNA Sequences. Journal of Theoretical Biology, 2000, 202, 273-282.	1.7	38
319	Kinetics of the protein folding transition. AIP Conference Proceedings, 2000, , .	0.4	Ο
320	Dependence of conductance on percolation backbone mass. Physical Review E, 2000, 61, 3435-3440.	2.1	14
321	Flow between two sites on a percolation cluster. Physical Review E, 2000, 62, 8270-8281.	2.1	67
322	Identifying the protein folding nucleus using molecular dynamics 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 296, 1183-1188.	4.2	137
323	Traveling time and traveling length in critical percolation clusters. Physical Review E, 1999, 60, 3425-3428.	2.1	92
324	Clustering of Identical Oligomers in Coding and Noncoding DNA Sequences. Journal of Biomolecular Structure and Dynamics, 1999, 17, 79-87.	3.5	9

#	Article	IF	CITATIONS
325	Expansion of tandem repeats and oligomer clustering in coding and noncoding DNA sequences. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 19-32.	2.6	15
326	Distribution of shortest paths in percolation. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 55-61.	2.6	25
327	Predicting oil recovery using percolation. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 107-114.	2.6	40
328	Applications of statistical physics to the oil industry: predicting oil recovery using percolation theory. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 60-66.	2.6	35
329	Scaling of the Distribution of Shortest Paths in Percolation. Journal of Statistical Physics, 1998, 93, 603-613.	1.2	52
330	Model of unequal chromosomal crossing over in DNA sequences. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 594-599.	2.6	18
331	Discrete molecular dynamics studies of the folding of a protein-like model. Folding & Design, 1998, 3, 577-587.	4.5	283
332	Analysis of DNA sequences using methods of statistical physics. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 430-438.	2.6	140
333	Distribution of Base Pair Repeats in Coding and Noncoding DNA Sequences. Physical Review Letters, 1997, 79, 5182-5185.	7.8	44
334	Single top quark production and Vb CKM matrix element measurement in high energy e+eâ^' collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 251-256.	4.1	9
335	Towards quantitative biochemistry: research and reports in biochemistry. Research and Reports in Biochemistry, 0, , 1.	1.6	0