

Thomas E Cheatham

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7323335/publications.pdf>

Version: 2024-02-01

127
papers

38,258
citations

24978

57
h-index

17055

122
g-index

131
all docs

131
docs citations

131
times ranked

29024
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the accuracy of the AMBER protein force fields in modeling dihydrofolate reductase structures: misbalance in the conformational arrangements of the flexible loop domains. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 5946-5960.	2.0	5
2	Backbone Hydrocarbon-Constrained Nucleic Acids Modulate Hybridization Kinetics for RNA. <i>Journal of the American Chemical Society</i> , 2022, 144, 1941-1950.	6.6	5
3	Riboflavin Stabilizes Abasic, Oxidized G-Quadruplex Structures. <i>Biochemistry</i> , 2022, 61, 265-275.	1.2	3
4	Transient Hoogsteen Base Pairs Observed in Unbiased Molecular Dynamics Simulations of DNA. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6283-6287.	2.1	2
5	Building the Research Innovation Workforce: Challenges and Recommendations from a Virtual Workshop to Advance the Research Computing Community. , 2022, , .		0
6	Ethidium bromide interactions with DNA: an exploration of a classic DNA-ligand complex with unbiased molecular dynamics simulations. <i>Nucleic Acids Research</i> , 2021, 49, 3735-3747.	6.5	55
7	Peptoid Residues Make Diverse, Hyperstable Collagen Triple-Helices. <i>Journal of the American Chemical Society</i> , 2021, 143, 10910-10919.	6.6	28
8	Advancing the Workforce That Supports Computationally and Data Intensive Research. <i>Computing in Science and Engineering</i> , 2021, 23, 19-27.	1.2	8
9	A Research Computing and Data Capabilities Model for Strategic Decision-Making. , 2020, , .		2
10	Ancillary Ligand in Ternary Cull Complexes Guides Binding Selectivity toward Minor-Groove DNA. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11648-11658.	1.2	6
11	Exploring potentially alternative non-canonical DNA duplex structures through simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 2201-2210.	2.0	5
12	Lessons learned in atomistic simulation of double-stranded DNA: Solvation and salt concerns [Article v1.0]. <i>Living Journal of Computational Molecular Science</i> , 2019, 1, .	2.2	12
13	Computational Modeling of Stapled Peptides toward a Treatment Strategy for CML and Broader Implications in the Design of Lengthy Peptide Therapeutics. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3864-3875.	1.2	11
14	Consensus Conformations of Dinucleoside Monophosphates Described with Well-Converged Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1456-1470.	2.3	21
15	Defining a conformational ensemble that directs activation of PPAR ^γ . <i>Nature Communications</i> , 2018, 9, 1794.	5.8	53
16	Investigating the ion dependence of the first unfolding step of GTPase-Associating Center ribosomal RNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 243-253.	2.0	8
17	Computational DNA binding studies of (–)-epigallocatechin-3-gallate. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 3311-3323.	2.0	15
18	Parallelization of CPPTRAJ enables large scale analysis of molecular dynamics trajectory data. <i>Journal of Computational Chemistry</i> , 2018, 39, 2110-2117.	1.5	97

#	ARTICLE	IF	CITATIONS
19	Influence of BII Backbone Substates on DNA Twist: A Unified View and Comparison of Simulation and Experiment for All 136 Distinct Tetranucleotide Sequences. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 275-287.	2.5	31
20	Application of Thiolâ€ˆyne/Thiolâ€ˆene Reactions for Peptide and Protein Macrocyclizations. <i>Chemistry - A European Journal</i> , 2017, 23, 7087-7092.	1.7	36
21	Computational Assessment of Potassium and Magnesium Ion Binding to a Buried Pocket in GTPase-Associating Center RNA. <i>Journal of Physical Chemistry B</i> , 2017, 121, 451-462.	1.2	15
22	Mg ²⁺ Binding Promotes SLV as a Scaffold in Varkud Satellite Ribozyme SLI-SLV Kissing Loop Junction. <i>Biophysical Journal</i> , 2017, 113, 313-320.	0.2	13
23	Dissociative reactions of benzonorbornadienes with tetrazines: scope of leaving groups and mechanistic insights. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9855-9865.	1.5	28
24	Transitions of Double-Stranded DNA Between the A- and B-Forms. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8449-8456.	1.2	38
25	Molecular basis for the broad substrate selectivity of a peptide prenyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14037-14042.	3.3	45
26	Divalent Ion Dependent Conformational Changes in an RNA Stem-Loop Observed by Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3382-3389.	2.3	48
27	Assessing the Current State of Amber Force Field Modifications for DNA. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4114-4127.	2.3	351
28	Using Wavelet Analysis To Assist in Identification of Significant Events in Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1282-1291.	2.5	17
29	Probing the influence of hypermodified residues within the tRNA ³ Lys anticodon stem loop interacting with the A-loop primer sequence from HIV-1. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 607-617.	1.1	5
30	Efficient treatment of induced dipoles. <i>Journal of Chemical Physics</i> , 2015, 143, 074115.	1.2	38
31	Convergence and reproducibility in molecular dynamics simulations of the DNA duplex d(GCACGAACGAACGACGC). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1041-1058.	1.1	136
32	Intercalation processes of copper complexes in DNA. <i>Nucleic Acids Research</i> , 2015, 43, 5364-5376.	6.5	137
33	Highly sampled tetranucleotide and tetraloop motifs enable evaluation of common RNA force fields. <i>Rna</i> , 2015, 21, 1578-1590.	1.6	123
34	Improved Force Field Parameters Lead to a Better Description of RNA Structure. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3969-3972.	2.3	126
35	Stem-Loop V of Varkud Satellite RNA Exhibits Characteristics of the Mg ²⁺ Bound Structure in the Presence of Monovalent Ions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12355-12364.	1.2	22
36	Refinement of the Sugarâ€ˆPhosphate Backbone Torsion Beta for AMBER Force Fields Improves the Description of Z- and B-DNA. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5723-5736.	2.3	392

#	ARTICLE	IF	CITATIONS
37	DNA Backbone BI/BII Distribution and Dynamics in E2 Protein-Bound Environment Determined by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14111-14119.	1.2	13
38	¼ABC: a systematic microsecond molecular dynamics study of tetranucleotide sequence effects in B-DNA. <i>Nucleic Acids Research</i> , 2014, 42, 12272-12283.	6.5	186
39	Triplex intermediates in folding of human telomeric quadruplexes probed by microsecond-scale molecular dynamics simulations. <i>Biochimie</i> , 2014, 105, 22-35.	1.3	72
40	On the absence of intrahelical DNA dynamics on the ¼s to ms timescale. <i>Nature Communications</i> , 2014, 5, 5152.	5.8	70
41	DNA Binding Dynamics and Energetics of Cobalt, Nickel, and Copper Metallopeptides. <i>ChemMedChem</i> , 2014, 9, 1252-1259.	1.6	17
42	Molecular Modeling of Nucleic Acid Structure: Setup and Analysis. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2014, 56, 7.10.1-21.	0.5	4
43	Re-Engineered p53 Chimera with Enhanced Homo-Oligomerization That Maintains Tumor Suppressor Activity. <i>Molecular Pharmaceutics</i> , 2014, 11, 2442-2452.	2.3	7
44	Oxazinin A, a Pseudodimeric Natural Product of Mixed Biosynthetic Origin from a Filamentous Fungus. <i>Organic Letters</i> , 2014, 16, 4774-4777.	2.4	32
45	Evaluation of Enhanced Sampling Provided by Accelerated Molecular Dynamics with Hamiltonian Replica Exchange Methods. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3543-3552.	1.2	86
46	Multidimensional Replica Exchange Molecular Dynamics Yields a Converged Ensemble of an RNA Tetranucleotide. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 492-499.	2.3	120
47	Structural and Energetic Analysis of 2-Aminobenzimidazole Inhibitors in Complex with the Hepatitis C Virus IRES RNA Using Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1758-1772.	2.5	12
48	iBIOMES Lite: Summarizing Biomolecular Simulation Data in Limited Settings. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1810-1819.	2.5	8
49	Twenty-five years of nucleic acid simulations. <i>Biopolymers</i> , 2013, 99, 969-977.	1.2	157
50	Toward Improved Description of DNA Backbone: Revisiting Epsilon and Zeta Torsion Force Field Parameters. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2339-2354.	2.3	255
51	PTRAJ and CPPTRAJ: Software for Processing and Analysis of Molecular Dynamics Trajectory Data. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3084-3095.	2.3	4,960
52	Self-Tensioning Aquatic Caddisfly Silk: Ca ²⁺ -Dependent Structure, Strength, and Load Cycle Hysteresis. <i>Biomacromolecules</i> , 2013, 14, 3668-3681.	2.6	64
53	iBIOMES: Managing and Sharing Biomolecular Simulation Data in a Distributed Environment. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 726-736.	2.5	18
54	Relative Stability of Different DNA Guanine Quadruplex Stem Topologies Derived Using Large-Scale Quantum-Chemical Computations. <i>Journal of the American Chemical Society</i> , 2013, 135, 9785-9796.	6.6	108

#	ARTICLE	IF	CITATIONS
55	Reliable Oligonucleotide Conformational Ensemble Generation in Explicit Solvent for Force Field Assessment Using Reservoir Replica Exchange Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4014-4027.	1.2	60
56	Molecular Modeling of Nucleic Acid Structure. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2013, 54, 7.5.1-7.5.13.	0.5	10
57	Molecular Modeling of Nucleic Acid Structure: Electrostatics and Solvation. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2013, 55, 7.9.1-27.	0.5	5
58	Structural dynamics of possible late-stage intermediates in folding of quadruplex DNA studied by molecular simulations. <i>Nucleic Acids Research</i> , 2013, 41, 7128-7143.	6.5	111
59	Molecular Modeling of Nucleic Acid Structure: Energy and Sampling. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2013, 54, 7.8.1-7.8.21.	0.5	2
60	Reference Simulations of Noncanonical Nucleic Acids with Different \ddagger Variants of the AMBER Force Field: Quadruplex DNA, Quadruplex RNA, and Z-DNA. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2506-2520.	2.3	231
61	Molecular dynamics re-refinement of two different small RNA loop structures using the original NMR data suggest a common structure. <i>Journal of Biomolecular NMR</i> , 2012, 53, 321-339.	1.6	26
62	Molecular dynamics simulations of G-DNA and perspectives on the simulation of nucleic acid structures. <i>Methods</i> , 2012, 57, 25-39.	1.9	111
63	Totopotensamides, Polyketide-Cyclic Peptide Hybrids from a Mollusk-Associated Bacterium <i>Streptomyces</i> sp.. <i>Journal of Natural Products</i> , 2012, 75, 644-649.	1.5	30
64	Improved Coiled-Coil Design Enhances Interaction with Bcr-Abl and Induces Apoptosis. <i>Molecular Pharmaceutics</i> , 2012, 9, 187-195.	2.3	23
65	Conformational dynamics of CYP3A4 demonstrate the important role of Arg212 coupled with the opening of ingress, egress and solvent channels to dehydrogenation of 4-hydroxy-tamoxifen. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1605-1617.	1.1	24
66	The ABCs of molecular dynamics simulations on B-DNA, circa 2012. <i>Journal of Biosciences</i> , 2012, 37, 379-397.	0.5	55
67	Quantum mechanically derived AMBER-compatible heme parameters for various states of the cytochrome P450 catalytic cycle. <i>Journal of Computational Chemistry</i> , 2012, 33, 119-133.	1.5	210
68	Refinement of the Cornell et al. Nucleic Acids Force Field Based on Reference Quantum Chemical Calculations of Glycosidic Torsion Profiles. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2886-2902.	2.3	873
69	A Coarse-Grained Model of DNA with Explicit Solvation by Water and Ions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 132-142.	1.2	78
70	Araiosamines A-D: Tris-bromoindole Cyclic Guanidine Alkaloids from the Marine Sponge <i>Clathria</i> (<i>Thalysias</i>) <i>araiosa</i> . <i>Journal of Organic Chemistry</i> , 2011, 76, 5515-5523.	1.7	36
71	Insight into G-DNA Structural Polymorphism and Folding from Sequence and Loop Connectivity through Free Energy Analysis. <i>Journal of the American Chemical Society</i> , 2011, 133, 14270-14279.	6.6	58
72	Explaining the varied glycosidic conformational, G-tract length and sequence preferences for anti-parallel G-quadruplexes. <i>Nucleic Acids Research</i> , 2011, 39, 4499-4512.	6.5	119

#	ARTICLE	IF	CITATIONS
73	Disruption of Bcr-Abl Coiled Coil Oligomerization by Design. <i>Journal of Biological Chemistry</i> , 2011, 286, 27751-27760.	1.6	28
74	Structure-Activity Relationship of Capsaicin Analogs and Transient Receptor Potential Vanilloid 1-Mediated Human Lung Epithelial Cell Toxicity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 337, 400-410.	1.3	40
75	Inhibitor-induced structural change in the HCV IRES domain Ila RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7263-7268.	3.3	52
76	Improved Cytochrome P450 3A4 Molecular Models Accurately Predict the Phe215 Requirement for Raloxifene Dehydrogenation Selectivity. <i>Biochemistry</i> , 2010, 49, 9011-9019.	1.2	23
77	A systematic molecular dynamics study of nearest-neighbor effects on base pair and base pair step conformations and fluctuations in B-DNA. <i>Nucleic Acids Research</i> , 2010, 38, 299-313.	6.5	349
78	Performance of Molecular Mechanics Force Fields for RNA Simulations: Stability of UUCG and GNRA Hairpins. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3836-3849.	2.3	339
79	Proton Transfer Studied Using a Combined Ab Initio Reactive Potential Energy Surface with Quantum Path Integral Methodology. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2566-2580.	2.3	44
80	Explicitly Solvated Ligand Contribution to Continuum Solvation Models for Binding Free Energies: Selectivity of Theophylline Binding to an RNA Aptamer. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2227-2237.	1.2	15
81	Molecular dynamics simulations and coupled nucleotide substitution experiments indicate the nature of A•A base pairing and a putative structure of the coralyne-induced homo-adenine duplex. <i>Nucleic Acids Research</i> , 2009, 37, 7715-7727.	6.5	28
82	Molecular dynamics guided study of salt bridge length dependence in both fluorinated and non-fluorinated parallel dimeric coiled-coils. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 612-629.	1.5	23
83	Molecular Dynamics Simulations of the Dynamic and Energetic Properties of Alkali and Halide Ions Using Water-Model-Specific Ion Parameters. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13279-13290.	1.2	476
84	Single Stranded Loops of Quadruplex DNA As Key Benchmark for Testing Nucleic Acids Force Fields. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2514-2530.	2.3	121
85	Differential electronic states observed during A•B DNA duplex conformational transitions. <i>Soft Matter</i> , 2009, 5, 685-690.	1.2	3
86	Geometrical and Electronic Structure Variability of the Sugar-phosphate Backbone in Nucleic Acids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8188-8197.	1.2	52
87	Determination of Alkali and Halide Monovalent Ion Parameters for Use in Explicitly Solvated Biomolecular Simulations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9020-9041.	1.2	2,756
88	A combined theoretical and experimental study of dehydrogenation selectivity by hepatic P450 enzymes during tamoxifen metabolism. <i>FASEB Journal</i> , 2008, 22, 919.1.	0.2	0
89	Probing the influence of ligand binding on cytochrome P450 enzyme remodeling and dynamics: Using molecular dynamics simulation to give insight into multiple cytochrome 2B4 structures. <i>FASEB Journal</i> , 2008, 22, 633.7.	0.2	0
90	Refinement of the AMBER Force Field for Nucleic Acids: Improving the Description of β Conformers. <i>Biophysical Journal</i> , 2007, 92, 3817-3829.	0.2	2,036

#	ARTICLE	IF	CITATIONS
91	Spontaneous Formation of KCl Aggregates in Biomolecular Simulations: A Force Field Issue?. Journal of Chemical Theory and Computation, 2007, 3, 1851-1859.	2.3	159
92	Antifreeze Proteins at the Ice/Water Interface: Three Calculated Discriminating Properties for Orientation of Type I Proteins. Biophysical Journal, 2007, 93, 1442-1451.	0.2	90
93	Clustering Molecular Dynamics Trajectories: 1. Characterizing the Performance of Different Clustering Algorithms. Journal of Chemical Theory and Computation, 2007, 3, 2312-2334.	2.3	721
94	Computational Science and Engineering Online (CSE-Online): A Cyber-Infrastructure for Scientific Computing. Journal of Chemical Information and Modeling, 2006, 46, 971-984.	2.5	20
95	An accurate and simple quantum model for liquid water. Journal of Chemical Physics, 2006, 125, 184507.	1.2	187
96	The Amber biomolecular simulation programs. Journal of Computational Chemistry, 2005, 26, 1668-1688.	1.5	7,742
97	Molecular Dynamics Simulations of the 136 Unique Tetranucleotide Sequences of DNA Oligonucleotides. II: Sequence Context Effects on the Dynamical Structures of the 10 Unique Dinucleotide Steps. Biophysical Journal, 2005, 89, 3721-3740.	0.2	216
98	Simulation and modeling of nucleic acid structure, dynamics and interactions. Current Opinion in Structural Biology, 2004, 14, 360-367.	2.6	212
99	DNA Deformability at the Base Pair Level. Journal of the American Chemical Society, 2004, 126, 4124-4125.	6.6	41
100	Molecular Dynamics Simulations of Guanine Quadruplex Loops: Advances and Force Field Limitations. Biophysical Journal, 2004, 87, 227-242.	0.2	116
101	Molecular Dynamics Simulations of the 136 Unique Tetranucleotide Sequences of DNA Oligonucleotides. I. Research Design and Results on d(CpG) Steps. Biophysical Journal, 2004, 87, 3799-3813.	0.2	245
102	Molecular Dynamics Simulations and Thermodynamics Analysis of DNA-Drug Complexes. Minor Groove Binding between 4-ethyl-6-Diamidino-2-phenylindole and DNA Duplexes in Solution. Journal of the American Chemical Society, 2003, 125, 1759-1769.	6.6	150
103	Dynamically Amorphous Character of Electronic States in Poly(dA)-Poly(dT) DNA. Journal of Physical Chemistry B, 2003, 107, 2581-2587.	1.2	106
104	Formation Pathways of a Guanine-Quadruplex DNA Revealed by Molecular Dynamics and Thermodynamic Analysis of the Substates. Biophysical Journal, 2003, 85, 1787-1804.	0.2	128
105	DNA Basepair Step Deformability Inferred from Molecular Dynamics Simulations. Biophysical Journal, 2003, 85, 2872-2883.	0.2	237
106	Critical Effect of the N2 Amino Group on Structure, Dynamics, and Elasticity of DNA Polypurine Tracts. Biophysical Journal, 2002, 82, 2592-2609.	0.2	84
107	Molecular Modeling of Nucleic Acid Structure: Electrostatics and Solvation. Current Protocols in Nucleic Acid Chemistry, 2001, 5, Unit 7.9.	0.5	3
108	Molecular Modeling of Nucleic Acid Structure: Setup and Analysis. Current Protocols in Nucleic Acid Chemistry, 2001, 6, Unit 7.10.	0.5	6

#	ARTICLE	IF	CITATIONS
109	Molecular dynamics simulation of nucleic acids: Successes, limitations, and promise. <i>Biopolymers</i> , 2000, 56, 232-256.	1.2	307
110	Calculating Structures and Free Energies of Complex Molecules: Combining Molecular Mechanics and Continuum Models. <i>Accounts of Chemical Research</i> , 2000, 33, 889-897.	7.6	4,098
111	MOLECULAR DYNAMIC SIMULATION OF NUCLEIC ACIDS. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 435-471.	4.8	330
112	Molecular dynamics simulation of nucleic acids: Successes, limitations, and promise*. , 2000, 56, 232.		3
113	Molecular dynamics simulation of nucleic acids: Successes, limitations, and promise* We would like to dedicate this article to Peter Kollman, a friend, collaborator, mentor, and all around good guy. Peter was very enthusiastic about DNA simulation; he will be sorely missed.. <i>Biopolymers</i> , 2000, 56, 232.	1.2	5
114	Restrained molecular dynamics of solvated duplex DNA using the particle mesh Ewald method. <i>Journal of Biomolecular NMR</i> , 1999, 13, 119-131.	1.6	33
115	A Modified Version of the Cornell <i>et al.</i> Force Field with Improved Sugar Pucker Phases and Helical Repeat. <i>Journal of Biomolecular Structure and Dynamics</i> , 1999, 16, 845-862.	2.0	882
116	The flying ice cube: Velocity rescaling in molecular dynamics leads to violation of energy equipartition. <i>Journal of Computational Chemistry</i> , 1998, 19, 726-740.	1.5	347
117	Recent advances in molecular dynamics simulation towards the realistic representation of biomolecules in solution. <i>Theoretical Chemistry Accounts</i> , 1998, 99, 279-288.	0.5	61
118	Molecular Dynamics and Continuum Solvent Studies of the Stability of PolyG-PolyC and PolyA-PolyT DNA Duplexes in Solution. <i>Journal of Biomolecular Structure and Dynamics</i> , 1998, 16, 265-280.	2.0	183
119	Continuum Solvent Studies of the Stability of DNA, RNA, and Phosphoramidate~DNA Helices. <i>Journal of the American Chemical Society</i> , 1998, 120, 9401-9409.	6.6	1,442
120	Removal of pressure and free energy artifacts in charged periodic systems via net charge corrections to the Ewald potential. <i>Journal of Chemical Physics</i> , 1998, 108, 7070-7084.	1.2	162
121	The flying ice cube: Velocity rescaling in molecular dynamics leads to violation of energy equipartition. , 1998, 19, 726.		1
122	The flying ice cube: Velocity rescaling in molecular dynamics leads to violation of energy equipartition. , 1998, 19, 726.		4
123	Unrestrained Molecular Dynamics of Photodamaged DNA in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 1997, 119, 7095-7104.	6.6	62
124	Molecular Dynamics Simulations Highlight the Structural Differences among DNA:DNA, RNA:RNA, and DNA:RNA Hybrid Duplexes. <i>Journal of the American Chemical Society</i> , 1997, 119, 4805-4825.	6.6	257
125	Insight into the stabilization of A-DNA by specific ion association: spontaneous B-DNA to A-DNA transitions observed in molecular dynamics simulations of d[ACCCGCGGGT] ₂ in the presence of hexaamminecobalt(III). <i>Structure</i> , 1997, 5, 1297-1311.	1.6	104
126	Adventures in Improving the Scaling and Accuracy of a Parallel Molecular Dynamics Program. <i>Journal of Supercomputing</i> , 1997, 11, 255-278.	2.4	99

#	ARTICLE	IF	CITATIONS
127	AMBER, a package of computer programs for applying molecular mechanics, normal mode analysis, molecular dynamics and free energy calculations to simulate the structural and energetic properties of molecules. <i>Computer Physics Communications</i> , 1995, 91, 1-41.	3.0	2,839