## Wilfred F Van Gunsteren

# 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.

63 22,938 242 149 h-index g-index citations papers 6.8 24,791 4.2 247 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
242	Molecular dynamics simulation or structure refinement of proteins: are solvent molecules required? A case study using hen lysozyme <i>European Biophysics Journal</i> , <b>2022</b> , 1	1.9	O
241	A method to apply bond-angle constraints in molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , <b>2021</b> , 42, 418-434	3.5	2
240	On the Use of Side-Chain NMR Relaxation Data to Derive Structural and Dynamical Information on Proteins: A Case Study Using Hen Lysozyme. <i>ChemBioChem</i> , <b>2021</b> , 22, 1049-1064	3.8	4
239	On the use of J-coupling NMR data to derive structural information on proteins. <i>Journal of Biomolecular NMR</i> , <b>2021</b> , 75, 39-70	3	2
238	On the Effect of the Various Assumptions and Approximations used in Molecular Simulations on the Properties of Bio-Molecular Systems: Overview and Perspective on Issues. <i>ChemPhysChem</i> , <b>2021</b> , 22, 264-282	3.2	2
237	Algorithms to apply dihedral-angle constraints in molecular or stochastic dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 024109	3.9	3
236	Conformational Properties of the Chemotherapeutic Drug Analogue Epothilone A: How to Model a Flexible Protein Ligand Using Scarcely Available Experimental Data. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 2218-2230	6.1	2
235	The Roots of Bio-Molecular Simulation: The Eight-Week CECAM Workshop Models for Protein Dynamics of 1976. <i>Helvetica Chimica Acta</i> , <b>2019</b> , 102, e1800239	2	1
234	Validierung von molekularen Simulationen: eine Bersicht verschiedener Aspekte. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 894-915	3.6	3
233	Validation of Molecular Simulation: An Overview of Issues. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 884-902	16.4	74
232	Interpretation of Seemingly Contradictory Data: Low NMR S Order Parameters Observed in Helices and High NMR S Order Parameters in Disordered Loops of the Protein hGH at Low pH. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 9585-9591	4.8	2
231	Using Complementary NMR Data Sets To Detect Inconsistencies and Model Flaws in the Structure Determination of Human Interleukin-4. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 7055-7063	3.4	2
230	A molecular dynamics simulation investigation of the relative stability of the cyclic peptide octreotide and its deprotonated and its (CF)-Trp substituted analogs in different solvents. <i>Bioorganic and Medicinal Chemistry</i> , <b>2016</b> , 24, 4936-4948	3.4	2
229	Bestimmung von Strukturinformation aus experimentellen Messdaten fl Biomolekle. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 16222-16244	3.6	7
228	On the use of time-averaging restraints when deriving biomolecular structure from \( \Pi\)-coupling values obtained from NMR experiments. <i>Journal of Biomolecular NMR</i> , <b>2016</b> , 66, 69-83	3	1
227	Deriving Structural Information from Experimentally Measured Data on Biomolecules. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 15990-16010	16.4	21
226	Investigation of the structural preference and flexibility of the loop residues in amyloid fibrils of the HET-s prion. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 5860-6	3.6	4

225	GROMOS polarisable model for acetone. <i>Molecular Physics</i> , <b>2016</b> , 114, 845-854	1.7	5
224	A comparison of pathway-independent and pathway-dependent methods in the calculation of conformational free enthalpy differences. <i>Protein Science</i> , <b>2016</b> , 25, 184-91	6.3	1
223	Polarizable coarse-grained models for molecular dynamics simulation of liquid cyclohexane. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 1311-21	3.5	7
222	Challenge of representing entropy at different levels of resolution in molecular simulation. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 753-63	3.4	6
221	Structural and energetic effects of the use of polarisable water to solvate proteins. <i>Molecular Physics</i> , <b>2015</b> , 113, 2815-2828	1.7	2
220	On the use of a weak-coupling thermostat in replica-exchange molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 034110	3.9	10
219	On the pitfalls of peer review. F1000Research, 2015, 4, 1244	3.6	2
218	The key to predicting the stability of protein mutants lies in an accurate description and proper configurational sampling of the folded and denatured states. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 983-995	4	7
217	On the use of one-step perturbation to investigate the dependence of NOE-derived atom-atom distance bound violations of peptides upon a variation of force-field parameters. <i>European Biophysics Journal</i> , <b>2014</b> , 43, 113-9	1.9	6
216	An improved simple polarisable water model for use in biomolecular simulation. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 22D515	3.9	16
215	On the Sensitivity of Peptide Nucleic Acid Duplex Formation and Crystal Dissolution to a Variation of Force-Field Parameters. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 391-400	6.4	2
214	On the compatibility of polarisable and non-polarisable models for liquid water. <i>Molecular Physics</i> , <b>2014</b> , 112, 2761-2780	1.7	11
213	A polarizable empirical force field for molecular dynamics simulation of liquid hydrocarbons. Journal of Computational Chemistry, <b>2014</b> , 35, 789-801	3.5	24
212	On the Use of a Supramolecular Coarse-Grained Model for the Solvent in Simulations of the Folding Equilibrium of an Octa-peptide in MeOH and H2O. <i>Helvetica Chimica Acta</i> , <b>2014</b> , 97, 1591-1605	2	4
211	Time-averaged order parameter restraints in molecular dynamics simulations. <i>Journal of Biomolecular NMR</i> , <b>2014</b> , 60, 169-87	3	19
<b>21</b> 0	Using enveloping distribution sampling to compute the folding free enthalpy of a the petide with a very unstable folded conformation in solution: The advantage of focused sampling using EDS. <i>Chemical Physics</i> , <b>2014</b> , 428, 156-163	2.3	3
209	Structure of hen egg-white lysozyme solvated in TFE/water: a molecular dynamics simulation study based on NMR data. <i>Journal of Biomolecular NMR</i> , <b>2013</b> , 55, 339-53	3	11
208	On the use of advanced modelling techniques to investigate the conformational discrepancy between two X-ray structures of the AppA BLUF domain. <i>Molecular Simulation</i> , <b>2013</b> , 39, 472-486	2	4

207	On the use of one-step perturbation to investigate the dependence of different properties of liquid water on a variation of model parameters from a single simulation [Molecular Physics, 2013, 111, 2334-2344]	1.7	2
206	The seven sins in academic behavior in the natural sciences. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 118-22	16.4	21
205	Multi-resolution simulation of biomolecular systems: a review of methodological issues. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2820-34	16.4	63
204	Die sieben Todsfiden akademischen Handelns in der naturwissenschaftlichen Forschung. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 128-132	3.6	9
203	On the choice of a reference state for one-step perturbation calculations between polar and nonpolar molecules in a polar environment. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 387-93	3.5	5
202	Multiple binding modes for palmitate to barley lipid transfer protein facilitated by the presence of proline 12. <i>Protein Science</i> , <b>2013</b> , 22, 56-64	6.3	8
201	Conformational Preferences of a <b>*</b> Octapeptide as Function of Solvent and Force-Field Parameters. <i>Helvetica Chimica Acta</i> , <b>2013</b> , 96, 189-200	2	5
200	Refinement of the application of the GROMOS 54A7 force field to #peptides. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 2796-805	3.5	39
199	Influence of variation of a side chain on the folding equilibrium of a speptide: limitations of one-step perturbation. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 1899-906	3.5	1
198	Biomolekulare Simulationen mit mehreren Aufl\( \bar{B}\)ungsniveaus: ein \( \bar{B}\)erblick \( \bar{B}\)er methodische Aspekte. \( Angewandte Chemie, \( \bar{2013}, 125, 2888-2904 \)	3.6	6
197	Architecture, implementation and parallelisation of the GROMOS software for biomolecular simulation. <i>Computer Physics Communications</i> , <b>2012</b> , 183, 890-903	4.2	246
196	Helical content of a (B)-octapeptide in methanol: molecular dynamics simulations explain a seeming discrepancy between conclusions derived from CD and NMR data. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 586-93	4.8	14
195	New functionalities in the GROMOS biomolecular simulation software. <i>Journal of Computational Chemistry</i> , <b>2012</b> , 33, 340-53	3.5	91
194	On the effect of a variation of the force field, spatial boundary condition and size of the QM region in QM/MM MD simulations. <i>Journal of Computational Chemistry</i> , <b>2012</b> , 33, 363-78	3.5	33
193	Assessment of enveloping distribution sampling to calculate relative free enthalpies of binding for eight netropsin-DNA duplex complexes in aqueous solution. <i>Journal of Computational Chemistry</i> , <b>2012</b> , 33, 640-51	3.5	21
192	Free enthalpies of replacing water molecules in protein binding pockets. <i>Journal of Computer-Aided Molecular Design</i> , <b>2012</b> , 26, 1293-309	4.2	22
191	Validation of the GROMOS 54A7 Force Field Regarding Mixed <b>m</b> Peptide Molecules. <i>Helvetica Chimica Acta</i> , <b>2012</b> , 95, 2562-2577	2	11
190	Thirty-five years of biomolecular simulation: development of methodology, force fields and software. <i>Molecular Simulation</i> , <b>2012</b> , 38, 1271-1281	2	18

189	Molecular dynamics simulation of the last step of a catalytic cycle: product release from the active site of the enzyme chorismate mutase from Mycobacterium tuberculosis. <i>Protein Science</i> , <b>2012</b> , 21, 167	72 <sup>6</sup> 831	2
188	On the calculation of 印电oupling constants for side chains in proteins. <i>Journal of Biomolecular NMR</i> , <b>2012</b> , 53, 223-46	3	21
187	Solvating atomic level fine-grained proteins in supra-molecular level coarse-grained water for molecular dynamics simulations. <i>European Biophysics Journal</i> , <b>2012</b> , 41, 647-61	1.9	40
186	Molecular dynamics simulation of thionated hen egg white lysozyme. <i>Protein Science</i> , <b>2012</b> , 21, 1153-6	1 6.3	4
185	Calculation of the relative free energy of oxidation of Azurin at pH 5 and pH 9. <i>Journal of Computational Chemistry</i> , <b>2012</b> , 33, 1467-77	3.5	
184	Interfacing the GROMOS (bio)molecular simulation software to quantum-chemical program packages. <i>Journal of Computational Chemistry</i> , <b>2012</b> , 33, 2108-17	3.5	12
183	Test of a method for sampling the internal degrees of freedom of a flexible solute molecule based on adiabatic decoupling and temperature or force scaling. <i>Molecular Physics</i> , <b>2012</b> , 110, 407-417	1.7	2
182	An Analysis of the Validity of Markov State Models for Emulating the Dynamics of Classical Molecular Systems and Ensembles. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 1032-44	6.4	25
181	GROMOS++ Software for the Analysis of Biomolecular Simulation Trajectories. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 3379-90	6.4	160
180	An effective force field for molecular dynamics simulations of dimethyl sulfone. <i>Molecular Physics</i> , <b>2011</b> , 109, 2593-2605	1.7	3
179	New Interaction Parameters for Oxygen Compounds in the GROMOS Force Field: Improved Pure-Liquid and Solvation Properties for Alcohols, Ethers, Aldehydes, Ketones, Carboxylic Acids, and Esters. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 1016-31	6.4	93
178	Free energy calculations offer insights into the influence of receptor flexibility on ligand-receptor binding affinities. <i>Journal of Computer-Aided Molecular Design</i> , <b>2011</b> , 25, 709-16	4.2	10
177	Biomolecular structure refinement using the GROMOS simulation software. <i>Journal of Biomolecular NMR</i> , <b>2011</b> , 51, 265-81	3	39
176	Membrane protein dynamics in different environments: simulation study of the outer membrane protein X in a lipid bilayer and in a micelle. <i>European Biophysics Journal</i> , <b>2011</b> , 40, 39-58	1.9	13
175	Definition and testing of the GROMOS force-field versions 54A7 and 54B7. <i>European Biophysics Journal</i> , <b>2011</b> , 40, 843-56	1.9	1326
174	A method for conformational sampling of loops in proteins based on adiabatic decoupling and temperature or force scaling. <i>ChemPhysChem</i> , <b>2011</b> , 12, 2609-14	3.2	3
173	Influence of Variation of a Side Chain on the Folding Equilibrium of a Peptide. <i>Helvetica Chimica Acta</i> , <b>2011</b> , 94, 597-610	2	5
172	Calculation of binding free energies of inhibitors to plasmepsin II. <i>Journal of Computational Chemistry</i> , <b>2011</b> , 32, 1801-12	3.5	18

171	A simple, efficient polarizable molecular model for liquid carbon tetrachloride. <i>Molecular Physics</i> , <b>2011</b> , 109, 365-372	1.7	13
170	The effect of using a polarizable solvent model upon the folding equilibrium of different peptides. <i>Molecular Physics</i> , <b>2011</b> , 109, 493-506	1.7	18
169	A simple, efficient polarizable coarse-grained water model for molecular dynamics simulations. Journal of Chemical Physics, <b>2011</b> , 134, 084110	3.9	107
168	A one-site polarizable model for liquid chloroform: COS/C. <i>Molecular Physics</i> , <b>2010</b> , 108, 1749-1757	1.7	12
167	Molecular dynamics simulations of the interaction between polyhydroxylated compounds and Lennard-Jones walls: preferential affinity/exclusion effects and their relevance for bioprotection. <i>Molecular Simulation</i> , <b>2010</b> , 36, 708-728	2	6
166	Reply to the Comment on On using a too large integration time step in molecular dynamics simulations of coarse-grained molecular models by S. J. Marrink, X. Periole, D. Peter Tieleman and Alex H. de Vries, Phys. Chem. Chem. Phys., 2010, 12, DOI: 10.1039/b915293h. <i>Physical Chemistry</i>	3.6	10
165	The thermal isomerization of the GFP chromophore: A computational study. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 11051-61	3.6	9
164	Basic ingredients of free energy calculations: a review. <i>Journal of Computational Chemistry</i> , <b>2010</b> , 31, 1569-82	3.5	225
163	Methods of NMR structure refinement: molecular dynamics simulations improve the agreement with measured NMR data of a C-terminal peptide of GCN4-p1. <i>Journal of Biomolecular NMR</i> , <b>2010</b> , 47, 221-35	3	30
162	Structure determination of a flexible cyclic peptide based on NMR and MD simulation 3J-coupling. <i>ChemPhysChem</i> , <b>2010</b> , 11, 830-5	3.2	10
161	Molecular Dynamics Simulation of Ester-Linked Hen Egg White Lysozyme Reveals the Effect of Missing Backbone Hydrogen Bond Donors on the Protein Structure. <i>Helvetica Chimica Acta</i> , <b>2010</b> , 93, 1857-1869	2	8
160	The Effect of Fluoro Substitution upon the Hairpin Fold of a 町etrapeptide in Methanol. <i>Helvetica Chimica Acta</i> , <b>2010</b> , 93, 1870-1881	2	1
159	Ecyclodextrin Host Luest Binding: A Computational Study of the Different Driving Forces. Helvetica Chimica Acta, <b>2010</b> , 93, 2318-2325	2	2
158	A GPU solvent-solvent interaction calculation accelerator for biomolecular simulations using the GROMOS software. <i>Journal of Computational Chemistry</i> , <b>2010</b> , 31, 1636-43	3.5	18
157	Using one-step perturbation to predict the effect of changing force-field parameters on the simulated folding equilibrium of a beta-peptide in solution. <i>Journal of Computational Chemistry</i> , <b>2010</b> , 31, 2419-27	3.5	9
156	A comparison of the different helices adopted by <code>Hand</code> <code>Eptides</code> suggests different reasons for their stability. <i>Protein Science</i> , <b>2010</b> , 19, 2186-95	6.3	12
155	Exploring the trigger sequence of the GCN4 coiled-coil: biased molecular dynamics resolves apparent inconsistencies in NMR measurements. <i>Protein Science</i> , <b>2010</b> , 19, 2462-74	6.3	11
154	Molecular dynamics computer simulation as a tool for the analysis of solvation: A study of dilute aqueous solutions of 1,4-dioxane and 1,3-dioxane. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , <b>2010</b> , 104, 79-89		7

153	On the Conformational Properties of Amylose and Cellulose Oligomers in Solution. <i>International Journal of Carbohydrate Chemistry</i> , <b>2009</b> , 2009, 1-8		23
152	Interpreting experimental data by using molecular simulation instead of model building. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 6389-98	4.8	15
151	A combined solid-state NMR and MD characterization of the stability and dynamics of the HET-s(218-289) prion in its amyloid conformation. <i>ChemBioChem</i> , <b>2009</b> , 10, 1657-65	3.8	41
150	Folding and unfolding of two mixed alpha/beta peptides. <i>ChemBioChem</i> , <b>2009</b> , 10, 2032-41	3.8	18
149	A method to explore protein side chain conformational variability using experimental data. <i>ChemPhysChem</i> , <b>2009</b> , 10, 3213-28	3.2	23
148	On the direct calculation of the free energy of quantization for molecular systems in the condensed phase. <i>Journal of Computational Chemistry</i> , <b>2009</b> , 30, 514-23	3.5	6
147	Comparison of three enveloping distribution sampling Hamiltonians for the estimation of multiple free energy differences from a single simulation. <i>Journal of Computational Chemistry</i> , <b>2009</b> , 30, 1664-79	<b>3</b> ·5	34
146	On using a too large integration time step in molecular dynamics simulations of coarse-grained molecular models. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 1934-41	3.6	70
145	Molecular simulation as an aid to experimentalists. Current Opinion in Structural Biology, 2008, 18, 149-	<b>53</b> 8.1	150
144	Biomolecular simulation: historical picture and future perspectives. <i>Biochemical Society Transactions</i> , <b>2008</b> , 36, 11-5	5.1	38
143	Structure and dynamics of two beta-peptides in solution from molecular dynamics simulations validated against experiment. <i>European Biophysics Journal</i> , <b>2008</b> , 37, 903-12	1.9	18
142	A molecular dynamics study of the ASC and NALP1 pyrin domains at neutral and low pH. <i>ChemBioChem</i> , <b>2008</b> , 9, 923-33	3.8	6
141	Exploring the conserved water site and hydration of a coiled-coil trimerisation motif: a MD simulation study. <i>ChemBioChem</i> , <b>2008</b> , 9, 1749-56	3.8	6
140	On searching in, sampling of, and dynamically moving through conformational space of biomolecular systems: A review. <i>Journal of Computational Chemistry</i> , <b>2008</b> , 29, 157-66	3.5	125
139	Combined QM/MM Molecular Dynamics Study on a Condensed-Phase SN2 Reaction at Nitrogen: The Effect of Explicitly Including Solvent Polarization. <i>Journal of Chemical Theory and Computation</i> , <b>2007</b> , 3, 1499-509	6.4	50
138	Simulation of beta-depsipeptides: the effect of missing hydrogen-bond donors on their folding equilibria. <i>Biopolymers</i> , <b>2007</b> , 85, 318-32	2.2	13
137	A comparison of methods to compute the potential of mean force. ChemPhysChem, 2007, 8, 162-9	3.2	203
136	Comparison of thermodynamic properties of coarse-grained and atomic-level simulation models. <i>ChemPhysChem</i> , <b>2007</b> , 8, 452-61	3.2	92

135	Free energy calculations using flexible-constrained, hard-constrained and non-constrained molecular dynamics simulations. <i>ChemPhysChem</i> , <b>2007</b> , 8, 1557-64	3.2	7
134	Molecular dynamics simulations of the native and partially folded states of ubiquitin: influence of methanol cosolvent, pH, and temperature on the protein structure and dynamics. <i>Protein Science</i> , <b>2007</b> , 16, 1101-18	6.3	43
133	On using oscillating time-dependent restraints in MD simulation. <i>Journal of Biomolecular NMR</i> , <b>2007</b> , 37, 1-14	3	14
132	Biomolecular structure refinement based on adaptive restraints using local-elevation simulation. Journal of Biomolecular NMR, <b>2007</b> , 39, 265-73	3	20
131	Molecular Modeling Using Nuclear Magnetic Resonance Data. <i>Reviews in Computational Chemistry</i> , <b>2007</b> , 143-172		5
130	A molecular dynamics study of the bee venom melittin in aqueous solution, in methanol, and inserted in a phospholipid bilayer. <i>European Biophysics Journal</i> , <b>2006</b> , 35, 255-67	1.9	31
129	Pathway dependence of the efficiency of calculating free energy and entropy of soluteBolute association in water. <i>Chemical Physics</i> , <b>2006</b> , 330, 410-416	2.3	4
128	Simulation of an all-beta 3-icosapeptide containing the 20 proteinogenic side chains: effect of temperature, pH, counterions, solvent, and force field on helix stability. <i>Biopolymers</i> , <b>2006</b> , 83, 636-45	2.2	5
127	Biomolecular modeling: Goals, problems, perspectives. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 4064-92	16.4	441
126	Molecular dynamics simulations of liquid methanol and methanol-water mixtures with polarizable models. <i>Journal of Computational Chemistry</i> , <b>2006</b> , 27, 1494-504	3.5	98
125	Force field evaluation for biomolecular simulation: free enthalpies of solvation of polar and apolar compounds in various solvents. <i>ChemPhysChem</i> , <b>2006</b> , 7, 671-8	3.2	28
124	Biomolekulare Modellierung: Ziele, Probleme, Perspektiven. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 4168-4198	3 3.6	29
123	Sampling of rare events using hidden restraints. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 8488-98	3.4	27
122	Terminal-group effects on the folding behavior of selected beta-peptides. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 63, 136-43	4.2	15
121	Comparing atomistic simulation data with the NMR experiment: how much can NOEs actually tell us?. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 63, 210-8	4.2	77
120	Protein under pressure: molecular dynamics simulation of the arc repressor. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 65, 136-44	4.2	27
119	Calculating zeros: Non-equilibrium free energy calculations. <i>Chemical Physics</i> , <b>2006</b> , 323, 102-108	2.3	34
118	Catalytic mechanism of cyclophilin as observed in molecular dynamics simulations: pathway prediction and reconciliation of X-ray crystallographic and NMR solution data. <i>Protein Science</i> , <b>2006</b> , 15, 2544-51	6.3	26

## (2004-2005)

117	Numerical simulation of the effect of solvent viscosity on the motions of a beta-peptide heptamer. <i>Chemistry - A European Journal</i> , <b>2005</b> , 12, 72-5	4.8	19
116	Interpreting NMR data for beta-peptides using molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14320-9	16.4	38
115	Efficient calculation of many stacking and pairing free energies in DNA from a few molecular dynamics simulations. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 4340-8	4.8	33
114	An improved nucleic acid parameter set for the GROMOS force field. <i>Journal of Computational Chemistry</i> , <b>2005</b> , 26, 725-37	3.5	147
113	The GROMOS software for biomolecular simulation: GROMOS05. <i>Journal of Computational Chemistry</i> , <b>2005</b> , 26, 1719-51	3.5	514
112	Amine hydration: a united-atom force-field solution. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1800-4	3.2	23
111	EnergyEntropy Compensation in the Transfer of Nonpolar Solutes from Water to Cosolvent/Water Mixtures. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1010-1010	3.2	
110	On the influence of charged side chains on the folding-unfolding equilibrium of beta-peptides: a molecular dynamics simulation study. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 7276-93	4.8	23
109	Validation of the 53A6 GROMOS force field. European Biophysics Journal, 2005, 34, 273-84	1.9	392
108	Principles of carbopeptoid folding: a molecular dynamics simulation study. <i>Journal of Peptide Science</i> , <b>2005</b> , 11, 74-84	2.1	18
107	Simulating the Physiological Phase of Hydrated DPPC Bilayers: The Ester Moiety. <i>Soft Materials</i> , <b>2004</b> , 2, 27-45	1.7	16
106	Carbopeptoid folding: effects of stereochemistry, chain length, and solvent. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4055-9	16.4	20
105	Are NMR-derived model structures for beta-peptides representative for the ensemble of structures adopted in solution?. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 6312-6	16.4	36
104	Carbopeptoid Folding: Effects of Stereochemistry, Chain Length, and Solvent. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 4147-4151	3.6	3
103	Are NMR-Derived Model Structures for 即eptides Representative for the Ensemble of Structures Adopted in Solution?. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 6472-6476	3.6	12
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