

Wilfred F Van Gunsteren

List of Publications by Year in descending order

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239
papers

26,652
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247
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times ranked

19230
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A biomolecular force field based on the free enthalpy of hydration and solvation: The GROMOS force-field parameter sets 53A5 and 53A6. <i>Journal of Computational Chemistry</i> , 2004, 25, 1656-1676. | 1.5 | 3,309 |
| 2 | Definition and testing of the GROMOS force-field versions 54A7 and 54B7. <i>European Biophysics Journal</i> , 2011, 40, 843-856. | 1.2 | 1,902 |
| 3 | Peptide Folding: When Simulation Meets Experiment. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 236-240. | 7.2 | 1,611 |
| 4 | The GROMOS Biomolecular Simulation Program Package. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3596-3607. | 1.1 | 1,354 |
| 5 | Computer Simulation of Molecular Dynamics: Methodology, Applications, and Perspectives in Chemistry. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 992-1023. | 4.4 | 1,352 |
| 6 | A generalized reaction field method for molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 1995, 102, 5451-5459. | 1.2 | 1,293 |
| 7 | A fast SHAKE algorithm to solve distance constraint equations for small molecules in molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , 2001, 22, 501-508. | 1.5 | 959 |
| 8 | An improved GROMOS96 force field for aliphatic hydrocarbons in the condensed phase. <i>Journal of Computational Chemistry</i> , 2001, 22, 1205-1218. | 1.5 | 814 |
| 9 | A consistent empirical potential for water-protein interactions. <i>Biopolymers</i> , 1984, 23, 1513-1518. | 1.2 | 759 |
| 10 | The GROMOS software for biomolecular simulation: GROMOS05. <i>Journal of Computational Chemistry</i> , 2005, 26, 1719-1751. | 1.5 | 592 |
| 11 | Local elevation: A method for improving the searching properties of molecular dynamics simulation. <i>Journal of Computer-Aided Molecular Design</i> , 1994, 8, 695-708. | 1.3 | 510 |
| 12 | Biomolecular Modeling: Goals, Problems, Perspectives. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4064-4092. | 7.2 | 503 |
| 13 | Validation of the 53A6 GROMOS force field. <i>European Biophysics Journal</i> , 2005, 34, 273-284. | 1.2 | 443 |
| 14 | Parametrization of aliphatic CH _n united atoms of GROMOS96 force field. <i>Journal of Computational Chemistry</i> , 1998, 19, 535-547. | 1.5 | 370 |
| 15 | Folding-unfolding thermodynamics of a α -heptapeptide from equilibrium simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 34, 269-280. | 1.5 | 370 |
| 16 | Comparison of four methods to compute the dielectric permittivity of liquids from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2001, 115, 1125-1136. | 1.2 | 327 |
| 17 | Decomposition of the Free Energy of a System in Terms of Specific Interactions. <i>Journal of Molecular Biology</i> , 1994, 240, 167-176. | 2.0 | 314 |
| 18 | Time-averaged nuclear overhauser effect distance restraints applied to tendamistat. <i>Journal of Molecular Biology</i> , 1990, 214, 223-235. | 2.0 | 288 |

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| 19 | Basic ingredients of free energy calculations: A review. <i>Journal of Computational Chemistry</i> , 2010, 31, 1569-1582. | 1.5 | 281 |
| 20 | Architecture, implementation and parallelisation of the GROMOS software for biomolecular simulation. <i>Computer Physics Communications</i> , 2012, 183, 890-903. | 3.0 | 275 |
| 21 | Time-dependent distance restraints in molecular dynamics simulations. <i>Chemical Physics Letters</i> , 1989, 157, 289-294. | 1.2 | 268 |
| 22 | A Comparison of Methods to Compute the Potential of Mean Force. <i>ChemPhysChem</i> , 2007, 8, 162-169. | 1.0 | 243 |
| 23 | Development of a simple, self-consistent polarizable model for liquid water. <i>Journal of Chemical Physics</i> , 2003, 118, 221-234. | 1.2 | 209 |
| 24 | Derivation of an improved simple point charge model for liquid water: SPC/A and SPC/L. <i>Journal of Chemical Physics</i> , 2002, 116, 9811-9828. | 1.2 | 203 |
| 25 | Consistent dielectric properties of the simple point charge and extended simple point charge water models at 277 and 300 K. <i>Journal of Chemical Physics</i> , 1994, 100, 3169-3174. | 1.2 | 201 |
| 26 | GROMOS++ Software for the Analysis of Biomolecular Simulation Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3379-3390. | 2.3 | 180 |
| 27 | Absolute entropies from molecular dynamics simulation trajectories. <i>Journal of Chemical Physics</i> , 2000, 113, 7809-7817. | 1.2 | 171 |
| 28 | Molecular simulation as an aid to experimentalists. <i>Current Opinion in Structural Biology</i> , 2008, 18, 149-153. | 2.6 | 171 |
| 29 | Calculating Electrostatic Interactions Using the Particle-Particle-Particle-Mesh Method with Nonperiodic Long-Range Interactions. <i>The Journal of Physical Chemistry</i> , 1996, 100, 2581-2587. | 2.9 | 164 |
| 30 | Can One Derive the Conformational Preference of a β -Peptide from Its CD Spectrum?. <i>Journal of the American Chemical Society</i> , 2002, 124, 12972-12978. | 6.6 | 162 |
| 31 | Validation of molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 1998, 108, 6109-6116. | 1.2 | 161 |
| 32 | An improved nucleic acid parameter set for the GROMOS force field. <i>Journal of Computational Chemistry</i> , 2005, 26, 725-737. | 1.5 | 161 |
| 33 | Simulating proteins at constant pH: An approach combining molecular dynamics and Monte Carlo simulation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 47, 469-480. | 1.5 | 157 |
| 34 | On searching in, sampling of, and dynamically moving through conformational space of biomolecular systems: A review. <i>Journal of Computational Chemistry</i> , 2008, 29, 157-166. | 1.5 | 148 |
| 35 | Estimating entropies from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2004, 120, 2652-2661. | 1.2 | 138 |
| 36 | Structure refinement using time-averaged J-coupling constant restraints. <i>Journal of Biomolecular NMR</i> , 1993, 3, 55-66. | 1.6 | 125 |

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| 37 | The effect of force-field parameters on properties of liquids: Parametrization of a simple three-site model for methanol. <i>Journal of Chemical Physics</i> , 2000, 112, 10450-10459. | 1.2 | 125 |
| 38 | The Key to Solving the Protein-Folding Problem Lies in an Accurate Description of the Denatured State. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 351-355. | 7.2 | 124 |
| 39 | Computer Simulation of Urea~Water Mixtures:~ A Test of Force Field Parameters for Use in Biomolecular Simulation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1065-1071. | 1.2 | 123 |
| 40 | A simple, efficient polarizable coarse-grained water model for molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2011, 134, 084110. | 1.2 | 121 |
| 41 | Studying the Stability of a Helical ~Heptapeptide by Molecular Dynamics Simulations. <i>Chemistry - A European Journal</i> , 1997, 3, 1410-1417. | 1.7 | 120 |
| 42 | On the interpretation of biochemical data by molecular dynamics computer simulation. <i>FEBS Journal</i> , 1992, 204, 947-961. | 0.2 | 117 |
| 43 | Molek~ldynamik~Computersimulationen; Methodik, Anwendungen und Perspektiven in der Chemie. <i>Angewandte Chemie</i> , 1990, 102, 1020-1055. | 1.6 | 114 |
| 44 | 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> , 2011, 7, 1016-1031. | 2.3 | 112 |
| 45 | On the Choice of Dihedral Angle Potential Energy Functions for ~Alkanes. <i>Molecular Simulation</i> , 2000, 25, 301-319. | 0.9 | 111 |
| 46 | A Comparison of Non-Bonded Scaling Approaches for Free Energy Calculations. <i>Molecular Simulation</i> , 2002, 28, 45-65. | 0.9 | 109 |
| 47 | The effect of motional averaging on the calculation of NMR-derived structural properties. , 1999, 36, 542-555. | | 103 |
| 48 | Molecular dynamics simulations of liquid methanol and methanol~water mixtures with polarizable models. <i>Journal of Computational Chemistry</i> , 2006, 27, 1494-1504. | 1.5 | 103 |
| 49 | Comparison of Thermodynamic Properties of Coarse-Grained and Atomic-Level Simulation Models. <i>ChemPhysChem</i> , 2007, 8, 452-461. | 1.0 | 102 |
| 50 | Validation of Molecular Simulation: An Overview of Issues. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 884-902. | 7.2 | 101 |
| 51 | New functionalities in the GROMOS biomolecular simulation software. <i>Journal of Computational Chemistry</i> , 2012, 33, 340-353. | 1.5 | 98 |
| 52 | Entropy calculations on a reversibly folding peptide: Changes in solute free energy cannot explain folding behavior. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 43, 45-56. | 1.5 | 97 |
| 53 | An Effective Force Field for Molecular Dynamics Simulations of Dimethyl Sulfoxide and Dimethyl Sulfoxide~Water Mixtures. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1436-1445. | 1.2 | 97 |
| 54 | Algorithms for clustering molecular dynamics configurations. <i>Journal of Computational Chemistry</i> , 1994, 15, 1331-1340. | 1.5 | 92 |

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| 55 | Calculation of NMR-relaxation parameters for flexible molecules from molecular dynamics simulations. <i>Journal of Biomolecular NMR</i> , 2001, 20, 297-310. | 1.6 | 89 |
| 56 | When Are Free Energy Components Meaningful?. <i>The Journal of Physical Chemistry</i> , 1994, 98, 13735-13740. | 2.9 | 87 |
| 57 | On the relative merits of flexible versus rigid models for use in computer simulations of molecular liquids. <i>Chemical Physics Letters</i> , 1996, 250, 19-24. | 1.2 | 85 |
| 58 | A Structure Refinement Method Based on Molecular Dynamics in Four Spatial Dimensions. <i>Journal of Molecular Biology</i> , 1993, 234, 751-762. | 2.0 | 84 |
| 59 | Molecular dynamics simulation of hen egg white lysozyme: A test of the GROMOS96 force field against nuclear magnetic resonance data. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 40, 145-153. | 1.5 | 82 |
| 60 | Comparing atomistic simulation data with the NMR experiment: How much can NOEs actually tell us?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 210-218. | 1.5 | 82 |
| 61 | Calculation of relative free energy via indirect pathways. <i>Journal of Chemical Physics</i> , 1991, 94, 3808-3816. | 1.2 | 78 |
| 62 | Free energies of binding of polychlorinated biphenyls to the estrogen receptor from a single simulation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 54, 237-246. | 1.5 | 77 |
| 63 | On using a too large integration time step in molecular dynamics simulations of coarse-grained molecular models. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1934-41. | 1.3 | 76 |
| 64 | Predictions of free energy differences from a single simulation of the initial state. <i>Journal of Chemical Physics</i> , 1994, 100, 577-585. | 1.2 | 72 |
| 65 | Multi-Resolution Simulation of Biomolecular Systems: A Review of Methodological Issues. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2820-2834. | 7.2 | 72 |
| 66 | Structure refinement with molecular dynamics and a Boltzmann-weighted ensemble. <i>Journal of Biomolecular NMR</i> , 1995, 6, 163-170. | 1.6 | 66 |
| 67 | SWARM-MD: Searching Conformational Space by Cooperative Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 1998, 102, 5937-5943. | 1.1 | 63 |
| 68 | Single-step perturbations to calculate free energy differences from unphysical reference states: Limits on size, flexibility, and character. <i>Journal of Computational Chemistry</i> , 2003, 24, 1730-1739. | 1.5 | 62 |
| 69 | One-Step Perturbation Methods for Solvation Free Energies of Polar Solutes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11264-11274. | 1.2 | 59 |
| 70 | Entropy calculations on the molten globule state of a protein: Side-chain entropies of β -lactalbumin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 46, 215-224. | 1.5 | 58 |
| 71 | Estimating relative free energies from a single ensemble: Hydration free energies. <i>Journal of Computational Chemistry</i> , 1999, 20, 1604-1617. | 1.5 | 57 |
| 72 | Peptide Folding: When Simulation Meets Experiment. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 236-240. | 7.2 | 57 |

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| 73 | 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> , 2007, 3, 1499-1509. | 2.3 | 52 |
| 74 | Comparison of different schemes to treat long-range electrostatic interactions in molecular dynamics simulations of a protein crystal. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 43, 509-519. | 1.5 | 51 |
| 75 | 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> , 2007, 16, 1101-1118. | 3.1 | 51 |
| 76 | Refinement of the application of the GROMOS 54A7 force field to β^2 -peptides. <i>Journal of Computational Chemistry</i> , 2013, 34, 2796-2805. | 1.5 | 51 |
| 77 | Energy-Entropy Compensation in the Transfer of Nonpolar Solutes from Water to Cosolvent/Water Mixtures. <i>ChemPhysChem</i> , 2004, 5, 144-147. | 1.0 | 49 |
| 78 | Biomolecular simulation: historical picture and future perspectives. <i>Biochemical Society Transactions</i> , 2008, 36, 11-15. | 1.6 | 48 |
| 79 | Viscosity dependence of protein dynamics. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 42, 414-421. | 1.5 | 47 |
| 80 | Parametrisation of time-averaged distance restraints in MD simulations. <i>Journal of Biomolecular NMR</i> , 1995, 6, 313-320. | 1.6 | 46 |
| 81 | Solvating atomic level fine-grained proteins in supra-molecular level coarse-grained water for molecular dynamics simulations. <i>European Biophysics Journal</i> , 2012, 41, 647-661. | 1.2 | 45 |
| 82 | Solvent structure at a hydrophobic protein surface. , 1997, 27, 395-404. | | 43 |
| 83 | Molecular-dynamics simulation of the β domain of metallothionein with a semi-empirical treatment of the metal core. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 41, 299-315. | 1.5 | 43 |
| 84 | A Combined Solid-State NMR and MD Characterization of the Stability and Dynamics of the HETs(218-289) Prion in its Amyloid Conformation. <i>ChemBioChem</i> , 2009, 10, 1657-1665. | 1.3 | 43 |
| 85 | Molecular Dynamics Simulations of Small Peptides: Can One Derive Conformational Preferences from ROESY Spectra?. <i>Chemistry - A European Journal</i> , 2003, 9, 5838-5849. | 1.7 | 41 |
| 86 | Biomolecular structure refinement using the GROMOS simulation software. <i>Journal of Biomolecular NMR</i> , 2011, 51, 265-281. | 1.6 | 41 |
| 87 | Backbone folding of the polypeptide cardiac stimulant anthopleurin-A determined by nuclear magnetic resonance, distance geometry and molecular dynamics. <i>FEBS Letters</i> , 1988, 239, 266-270. | 1.3 | 39 |
| 88 | Interpreting NMR Data for β^2 -Peptides Using Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2005, 127, 14320-14329. | 6.6 | 39 |
| 89 | Are NMR-Derived Model Structures for β^2 -Peptides Representative for the Ensemble of Structures Adopted in Solution?. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6312-6316. | 7.2 | 38 |
| 90 | 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> , 2006, 35, 255-267. | 1.2 | 36 |

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| 91 | 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> , 2009, 30, 1664-1679. | 1.5 | 36 |
| 92 | 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> , 2012, 33, 363-378. | 1.5 | 36 |
| 93 | Peptide folding simulations: no solvent required?. <i>Computer Physics Communications</i> , 1999, 123, 97-102. | 3.0 | 35 |
| 94 | Calculating zeros: Non-equilibrium free energy calculations. <i>Chemical Physics</i> , 2006, 323, 102-108. | 0.9 | 35 |
| 95 | Simultaneous Refinement of the Structure of BPTI Against NMR Data Measured in Solution and X-ray Diffraction Data Measured in Single Crystals. <i>Journal of Molecular Biology</i> , 1994, 241, 588-599. | 2.0 | 34 |
| 96 | Dynamical studies of peptide motifs in the Plasmodium falciparum circumsporozoite surface protein by restrained and unrestrained MD simulations. <i>Journal of Molecular Biology</i> , 1997, 267, 1012-1025. | 2.0 | 34 |
| 97 | Efficient Calculation of Many Stacking and Pairing Free Energies in DNA from a Few Molecular Dynamics Simulations. <i>Chemistry - A European Journal</i> , 2005, 11, 4340-4348. | 1.7 | 33 |
| 98 | Force Field Evaluation for Biomolecular Simulation: Free Enthalpies of Solvation of Polar and Apolar Compounds in Various Solvents. <i>ChemPhysChem</i> , 2006, 7, 671-678. | 1.0 | 32 |
| 99 | Increasing the Time Step and Efficiency of Molecular Dynamics Simulations: Optimal Solutions for Equilibrium Simulations or Structure Refinement of Large Biomolecules. <i>Molecular Simulation</i> , 2003, 29, 123-138. | 0.9 | 31 |
| 100 | Protein under pressure: Molecular dynamics simulation of the arc repressor. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 65, 136-144. | 1.5 | 31 |
| 101 | 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> , 2010, 47, 221-235. | 1.6 | 31 |
| 102 | Sampling of Rare Events Using Hidden Restraints. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8488-8498. | 1.2 | 30 |
| 103 | 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> , 2006, 15, 2544-2551. | 3.1 | 29 |
| 104 | Molecular dynamics simulations of human α -lactalbumin: Changes to the structural and dynamical properties of the protein at low pH. , 1999, 36, 77-86. | | 28 |
| 105 | A strategy for analysis of (molecular) equilibrium simulations: Configuration space density estimation, clustering, and visualization. <i>Journal of Chemical Physics</i> , 2001, 114, 2079-2089. | 1.2 | 28 |
| 106 | Further investigation on the validity of Stokes-Einstein behaviour at the molecular level. <i>Chemical Physics Letters</i> , 2001, 334, 337-342. | 1.2 | 27 |
| 107 | Accessibility and order of water sites in and around proteins: A crystallographic time-averaging study. , 1999, 36, 501-511. | | 26 |
| 108 | On using time-averaging restraints in molecular dynamics simulation. <i>Journal of Biomolecular NMR</i> , 1998, 12, 501-508. | 1.6 | 25 |

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| 109 | The Photoisomerization of <i>cis</i> -Stilbene Does Not Follow the Minimum Energy Path. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2609-2611. | 7.2 | 25 |
| 110 | Amine Hydration: A United-Atom Force-Field Solution. <i>ChemPhysChem</i> , 2005, 6, 1800-1804. | 1.0 | 25 |
| 111 | On the Conformational Properties of Amylose and Cellulose Oligomers in Solution. <i>International Journal of Carbohydrate Chemistry</i> , 2009, 2009, 1-8. | 1.5 | 25 |
| 112 | A Method to Explore Protein Side Chain Conformational Variability Using Experimental Data. <i>ChemPhysChem</i> , 2009, 10, 3213-3228. | 1.0 | 25 |
| 113 | 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> , 2011, 7, 1032-1044. | 2.3 | 25 |
| 114 | Molecular dynamics simulation of <i>n</i> -dodecyl phosphate aggregate structures. <i>European Biophysics Journal</i> , 2001, 30, 330-343. | 1.2 | 24 |
| 115 | A novel approach for designing simple point charge models for liquid water with three interaction sites. <i>Journal of Computational Chemistry</i> , 2003, 24, 1087-1096. | 1.5 | 24 |
| 116 | Carbopeptoid Folding: Effects of Stereochemistry, Chain Length, and Solvent. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4055-4059. | 7.2 | 24 |
| 117 | The Seven Sins in Academic Behavior in the Natural Sciences. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 118-122. | 7.2 | 24 |
| 118 | A polarizable empirical force field for molecular dynamics simulation of liquid hydrocarbons. <i>Journal of Computational Chemistry</i> , 2014, 35, 789-801. | 1.5 | 24 |
| 119 | Deriving Structural Information from Experimentally Measured Data on Biomolecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15990-16010. | 7.2 | 24 |
| 120 | Fundamentals of drug design from a biophysical viewpoint. <i>Quarterly Reviews of Biophysics</i> , 1994, 27, 435-481. | 2.4 | 23 |
| 121 | On the Influence of Charged Side Chains on the Folding/Unfolding Equilibrium of β -Peptides: A Molecular Dynamics Simulation Study. <i>Chemistry - A European Journal</i> , 2005, 11, 7276-7293. | 1.7 | 23 |
| 122 | Free enthalpies of replacing water molecules in protein binding pockets. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 1293-1309. | 1.3 | 23 |
| 123 | Biomolecular structure refinement based on adaptive restraints using local-elevation simulation. <i>Journal of Biomolecular NMR</i> , 2007, 39, 265-273. | 1.6 | 22 |
| 124 | On the calculation of $^3J_{\text{H}^2\text{H}^2}$ -coupling constants for side chains in proteins. <i>Journal of Biomolecular NMR</i> , 2012, 53, 223-246. | 1.6 | 22 |
| 125 | A GPU solvent-solvent interaction calculation accelerator for biomolecular simulations using the GROMOS software. <i>Journal of Computational Chemistry</i> , 2010, 31, 1636-1643. | 1.5 | 21 |
| 126 | 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> , 2012, 33, 640-651. | 1.5 | 21 |

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| 127 | Alpha- and beta-polypeptides show a different stability of helical secondary structure. <i>Tetrahedron</i> , 2004, 60, 7775-7780. | 1.0 | 20 |
| 128 | Numerical Simulation of the Effect of Solvent Viscosity on the Motions of a \hat{I}^2 -Peptide Heptamer. <i>Chemistry - A European Journal</i> , 2006, 12, 72-75. | 1.7 | 20 |
| 129 | Structure and dynamics of two \hat{I}^2 -peptides in solution from molecular dynamics simulations validated against experiment. <i>European Biophysics Journal</i> , 2008, 37, 903-912. | 1.2 | 20 |
| 130 | Thirty-five years of biomolecular simulation: development of methodology, force fields and software. <i>Molecular Simulation</i> , 2012, 38, 1271-1281. | 0.9 | 20 |
| 131 | Time-averaged order parameter restraints in molecular dynamics simulations. <i>Journal of Biomolecular NMR</i> , 2014, 60, 169-187. | 1.6 | 20 |
| 132 | Reversible peptide folding: Dependence on molecular force field used. <i>Journal of Computational Chemistry</i> , 2000, 21, 774-787. | 1.5 | 19 |
| 133 | Principles of carbopeptoid folding: a molecular dynamics simulation study. <i>Journal of Peptide Science</i> , 2005, 11, 74-84. | 0.8 | 19 |
| 134 | An improved simple polarisable water model for use in biomolecular simulation. <i>Journal of Chemical Physics</i> , 2014, 141, 22D515. | 1.2 | 19 |
| 135 | Conformational transitions of a dipeptide in water: Effects of imposed pathways using umbrella sampling techniques. <i>Biopolymers</i> , 1994, 34, 347-355. | 1.2 | 18 |
| 136 | Folding and Unfolding of Two Mixed \hat{I}^\pm/\hat{I}^2 Peptides. <i>ChemBioChem</i> , 2009, 10, 2032-2041. | 1.3 | 18 |
| 137 | Calculation of binding free energies of inhibitors to plasmepsin II. <i>Journal of Computational Chemistry</i> , 2011, 32, 1801-1812. | 1.5 | 18 |
| 138 | The effect of using a polarizable solvent model upon the folding equilibrium of different \hat{I}^2 -peptides. <i>Molecular Physics</i> , 2011, 109, 493-506. | 0.8 | 18 |
| 139 | Molecular dynamics simulations of photoactive yellow protein (PYP) in three states of its photocycle: a comparison with X-ray and NMR data and analysis of the effects of Glu46 deprotonation and mutation. <i>European Biophysics Journal</i> , 2002, 31, 504-520. | 1.2 | 17 |
| 140 | Molecular dynamics simulations of peptides containing an unnatural amino acid: Dimerization, folding, and protein binding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 54, 116-127. | 1.5 | 17 |
| 141 | Terminal-group effects on the folding behavior of selected beta-peptides. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 136-143. | 1.5 | 17 |
| 142 | Simulating the Physiological Phase of Hydrated DPPC Bilayers: The Ester Moiety. <i>Soft Materials</i> , 2004, 2, 27-45. | 0.8 | 16 |
| 143 | Interpreting Experimental Data by Using Molecular Simulation Instead of Model Building. <i>Chemistry - A European Journal</i> , 2009, 15, 6389-6398. | 1.7 | 16 |
| 144 | Peptide Folding: When Simulation Meets Experiment. , 1999, 38, 236. | | 16 |

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| 145 | MD simulation of subtilisin BPN ² in a crystal environment. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 14, 451-464. | 1.5 | 15 |
| 146 | Crystallographic Refinement and Structure-Factor Time-Averaging by Molecular Dynamics in the Absence of a Physical Force Field. <i>Molecular Simulation</i> , 1993, 10, 377-395. | 0.9 | 15 |
| 147 | Comparison of Properties of Aib-Rich Peptides in Crystal and Solution: A Molecular Dynamics Study. <i>ChemPhysChem</i> , 2004, 5, 633-641. | 1.0 | 15 |
| 148 | On using oscillating time-dependent restraints in MD simulation. <i>Journal of Biomolecular NMR</i> , 2007, 37, 1-14. | 1.6 | 15 |
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