

Jeffrey D Madura

List of Publications by Citations

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119
papers

35,815
citations

35
h-index

138
g-index

138
ext. papers

40,106
ext. citations

4.2
avg, IF

6.45
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 119 | Comparison of simple potential functions for simulating liquid water. <i>Journal of Chemical Physics</i> , 1983 , 79, 926-935 | 3.9 | 27805 |
| 118 | Optimized intermolecular potential functions for liquid hydrocarbons. <i>Journal of the American Chemical Society</i> , 1984 , 106, 6638-6646 | 16.4 | 1815 |
| 117 | Development of an improved four-site water model for biomolecular simulations: TIP4P-Ew. <i>Journal of Chemical Physics</i> , 2004 , 120, 9665-78 | 3.9 | 1424 |
| 116 | Temperature and size dependence for Monte Carlo simulations of TIP4P water. <i>Molecular Physics</i> , 1985 , 56, 1381-1392 | 1.7 | 630 |
| 115 | Electrostatics and diffusion of molecules in solution: simulations with the University of Houston Brownian Dynamics program. <i>Computer Physics Communications</i> , 1995 , 91, 57-95 | 4.2 | 567 |
| 114 | Electrostatics and diffusion of molecules in solution: simulations with the University of Houston Brownian dynamics program. <i>Computer Physics Communications</i> , 1991 , 62, 187-197 | 4.2 | 440 |
| 113 | Quantum and statistical mechanical studies of liquids. 25. Solvation and conformation of methanol in water. <i>Journal of the American Chemical Society</i> , 1983 , 105, 1407-1413 | 16.4 | 311 |
| 112 | Ab initio and Monte Carlo calculations for a nucleophilic addition reaction in the gas phase and in aqueous solution. <i>Journal of the American Chemical Society</i> , 1986 , 108, 2517-2527 | 16.4 | 161 |
| 111 | Molecular dynamics simulation with a continuum electrostatic model of the solvent. <i>Journal of Computational Chemistry</i> , 1995 , 16, 1081-1095 | 3.5 | 91 |
| 110 | Antifreeze proteins at the ice/water interface: three calculated discriminating properties for orientation of type I proteins. <i>Biophysical Journal</i> , 2007 , 93, 1442-51 | 2.9 | 85 |
| 109 | Family 18 chitinase-oligosaccharide substrate interaction: subsite preference and anomer selectivity of <i>Serratia marcescens</i> chitinase A. <i>Biochemical Journal</i> , 2003 , 376, 87-95 | 3.8 | 83 |
| 108 | Electronic origins and consequences of pyramidalization of asymmetric alkenes in ground and triplet excited states. <i>Journal of the American Chemical Society</i> , 1983 , 105, 5980-5988 | 16.4 | 82 |
| 107 | Molecular recognition and binding of thermal hysteresis proteins to ice. <i>Journal of Molecular Recognition</i> , 2000 , 13, 101-13 | 2.6 | 78 |
| 106 | Effect of a bound non-nucleoside RT inhibitor on the dynamics of wild-type and mutant HIV-1 reverse transcriptase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17253-60 | 16.4 | 71 |
| 105 | Dopamine transporter comparative molecular modeling and binding site prediction using the LeuT(Aa) leucine transporter as a template. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 70, 1033-46 | 4.2 | 69 |
| 104 | Simulation of enzyme-substrate encounter with gated active sites. <i>Nature Structural and Molecular Biology</i> , 1994 , 1, 65-9 | 17.6 | 65 |
| 103 | Fischer route to pyrido[3,2-g]indoles. A novel receptor for urea derivatives. <i>Journal of the American Chemical Society</i> , 1990 , 112, 4549-4550 | 16.4 | 62 |

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| 102 | Interactions of the D- and L-Forms of Winter Flounder Antifreeze Peptide with the {201} Planes of Ice. <i>Journal of the American Chemical Society</i> , 1994 , 116, 417-418 | 16.4 | 59 |
| 101 | Effects of truncating long-range interactions in aqueous ionic solution simulations. <i>Chemical Physics Letters</i> , 1988 , 150, 105-108 | 2.5 | 57 |
| 100 | Photonic crystal protein hydrogel sensor materials enabled by conformationally induced volume phase transition. <i>Chemical Science</i> , 2016 , 7, 4557-4562 | 9.4 | 55 |
| 99 | Biological Applications of Electrostatic Calculations and Brownian Dynamics Simulations. <i>Reviews in Computational Chemistry</i> , 2007 , 229-267 | | 54 |
| 98 | Diffusion-controlled enzymatic reactions. <i>Methods in Enzymology</i> , 1991 , 202, 473-97 | 1.7 | 54 |
| 97 | Global transitions of proteins explored by a multiscale hybrid methodology: application to adenylate kinase. <i>Biophysical Journal</i> , 2013 , 105, 1643-52 | 2.9 | 52 |
| 96 | Scanning electron microscopy and molecular modeling of inhibition of calcium oxalate monohydrate crystal growth by citrate and phosphocitrate. <i>Calcified Tissue International</i> , 1995 , 56, 297-304 | 3.9 | 51 |
| 95 | Brownian dynamics simulations of diffusional encounters between triose phosphate isomerase and glyceraldehyde phosphate: electrostatic steering of glyceraldehyde phosphate. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 233-237 | | 48 |
| 94 | Gibbs free energies of formation of pcdds: Evaluation of estimation methods and application for predicting dehalogenation pathways. <i>Environmental Toxicology and Chemistry</i> , 1996 , 15, 824-836 | 3.8 | 47 |
| 93 | CoMFA 3D-QSAR analysis of HIV-1 RT nonnucleoside inhibitors, TIBO derivatives based on docking conformation and alignment. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 2167-78 | | 43 |
| 92 | Kinetic and mechanistic studies of prolyl oligopeptidase from the hyperthermophile <i>Pyrococcus furiosus</i> . <i>Journal of Biological Chemistry</i> , 2001 , 276, 19310-7 | 5.4 | 43 |
| 91 | Water under high pressure. <i>Molecular Physics</i> , 1988 , 64, 325-336 | 1.7 | 41 |
| 90 | Docking of sulfonamides to carbonic anhydrase II and IV. <i>Journal of Molecular Graphics and Modelling</i> , 2000 , 18, 283-9, 307-8 | 2.8 | 39 |
| 89 | Monoamine transporter structure, function, dynamics, and drug discovery: a computational perspective. <i>AAPS Journal</i> , 2012 , 14, 820-31 | 3.7 | 36 |
| 88 | Homology modeling of glycosyl hydrolase family 18 enzymes and proteins. <i>Journal of Chemical Information and Computer Sciences</i> , 1997 , 37, 999-1005 | | 35 |
| 87 | Receptor-based modeling and 3D-QSAR for a quantitative production of the butyrylcholinesterase inhibitors based on genetic algorithm. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 1092-103 | 6.1 | 35 |
| 86 | Structure modeling, ligand binding, and binding affinity calculation (LR-MM-PBSA) of human heparanase for inhibition and drug design. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 65, 580-92 | 4.2 | 35 |
| 85 | Relative free energy of binding and binding mode calculations of HIV-1 RT inhibitors based on dock-MM-PB/GS. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 57, 493-503 | 4.2 | 32 |

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| 84 | Salt dependence of an alpha-helical peptide folding energy landscapes. <i>Biochemistry</i> , 2009 , 48, 10818-26 | 3.2 | 29 |
| 83 | Molecular dynamics of leucine and dopamine transporter proteins in a model cell membrane lipid bilayer. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 797-811 | 4.2 | 29 |
| 82 | Modeling studies of binding of sea raven type II antifreeze protein to ice. <i>Journal of Chemical Information and Computer Sciences</i> , 1997 , 37, 1006-10 | | 28 |
| 81 | HIV-1 RT nonnucleoside inhibitors and their interaction with RT for antiviral drug development. <i>Infectious Disorders - Drug Targets</i> , 2006 , 6, 391-413 | 1.1 | 28 |
| 80 | Molecular dynamics of HIV-1 reverse transcriptase indicates increased flexibility upon DNA binding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , 45, 176-82 | 4.2 | 28 |
| 79 | Computer simulations of organic reactions in solution. <i>Annals of the New York Academy of Sciences</i> , 1986 , 482, 198-209 | 6.5 | 28 |
| 78 | LeuT conformational sampling utilizing accelerated molecular dynamics and principal component analysis. <i>Biophysical Journal</i> , 2012 , 103, L1-3 | 2.9 | 27 |
| 77 | Kinetic and docking studies of the interaction of quinones with the quinone reductase active site. <i>Biochemistry</i> , 2003 , 42, 1985-94 | 3.2 | 27 |
| 76 | A Review of Coarse-Grained Molecular Dynamics Techniques to Access Extended Spatial and Temporal Scales in Biomolecular Simulations. <i>Annual Reports in Computational Chemistry</i> , 2011 , 67-87 | 1.8 | 26 |
| 75 | Brownian dynamics simulation of diffusional encounters between triose phosphate isomerase and D-glyceraldehyde phosphate. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 7285-7287 | | 26 |
| 74 | Solution structural ensembles of substrate-free cytochrome P450(cam). <i>Biochemistry</i> , 2012 , 51, 3383-93 | 3.2 | 25 |
| 73 | Structural and dynamic implications of an effector-induced backbone amide cis-trans isomerization in cytochrome P450cam. <i>Journal of Molecular Biology</i> , 2009 , 388, 801-14 | 6.5 | 25 |
| 72 | Discovery of novel selective serotonin reuptake inhibitors through development of a protein-based pharmacophore. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2417-26 | 6.1 | 22 |
| 71 | Sodium perchlorate effects on the helical stability of a mainly alanine peptide. <i>Biophysical Journal</i> , 2010 , 98, 186-96 | 2.9 | 22 |
| 70 | Molecular recognition: effect of rotational isomers on host-guest binding. <i>Journal of the American Chemical Society</i> , 1993 , 115, 879-884 | 16.4 | 21 |
| 69 | Polymorphism and second harmonic generation in a novel diamond-like semiconductor: Li ₂ MnSnS ₄ . <i>Journal of Solid State Chemistry</i> , 2015 , 231, 256-266 | 3.3 | 20 |
| 68 | Experimentally restrained molecular dynamics simulations for characterizing the open states of cytochrome P450cam. <i>Biochemistry</i> , 2011 , 50, 1664-71 | 3.2 | 20 |
| 67 | Benchmarking docking and scoring protocol for the identification of potential acetylcholinesterase inhibitors. <i>Journal of Molecular Graphics and Modelling</i> , 2010 , 28, 870-82 | 2.8 | 20 |

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| 66 | Interaction of the phospholipid head group with representative quartz and aluminosilicate structures: an ab initio study. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7095-103 | 3.4 | 20 |
| 65 | Solubility of simple, nonpolar compounds in TIP4P-Ew. <i>Journal of Chemical Physics</i> , 2006 , 124, 16102 | 3.9 | 20 |
| 64 | Calculations of the electrostatic free energy contributions to the binding free energy of sulfonamides to carbonic anhydrase. <i>Structural Chemistry</i> , 1996 , 7, 131-138 | 1.8 | 20 |
| 63 | A Role for Fragment-Based Drug Design in Developing Novel Lead Compounds for Central Nervous System Targets. <i>Frontiers in Neurology</i> , 2015 , 6, 197 | 4.1 | 19 |
| 62 | Peptide-encapsulated CdS nanoclusters from a combinatorial ligand library. <i>Chemical Communications</i> , 2000 , 209-210 | 5.8 | 19 |
| 61 | Accelerated molecular dynamics and protein conformational change: a theoretical and practical guide using a membrane embedded model neurotransmitter transporter. <i>Methods in Molecular Biology</i> , 2015 , 1215, 253-87 | 1.4 | 19 |
| 60 | Structure of aqueous sodium perchlorate solutions. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15417-25 | 3.4 | 18 |
| 59 | Family 18 chitolectins: comparison of MGP40 and HUMGP39. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 359, 221-6 | 3.4 | 18 |
| 58 | Docking of non-nucleoside inhibitors: neotripterifordin and its derivatives to HIV-1 reverse transcriptase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 49, 529-42 | 4.2 | 18 |
| 57 | Polyglutamine Fibrils: New Insights into Antiparallel β Sheet Conformational Preference and Side Chain Structure. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3012-26 | 3.4 | 17 |
| 56 | New design strategies for antidepressant drugs. <i>Expert Opinion on Drug Discovery</i> , 2013 , 8, 1399-414 | 6.2 | 17 |
| 55 | Insights from molecular dynamics: the binding site of cocaine in the dopamine transporter and permeation pathways of substrates in the leucine and dopamine transporters. <i>Journal of Molecular Graphics and Modelling</i> , 2012 , 38, 1-12 | 2.8 | 17 |
| 54 | Identification of a novel selective serotonin reuptake inhibitor by coupling monoamine transporter-based virtual screening and rational molecular hybridization. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 544-552 | 5.7 | 17 |
| 53 | Molecular Dynamics Simulation of Crystal-Induced Membranolysis. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12346-12351 | 3.4 | 17 |
| 52 | Effective computational modeling of constitutional isomerism and aggregation states of explicit solvates of lithiated phenylacetonitrile. <i>Journal of Organic Chemistry</i> , 2002 , 67, 3832-40 | 4.2 | 17 |
| 51 | Design, synthesis, and testing of an 6-O-linked series of benzimidazole based inhibitors of CDK5/p25. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 359-73 | 3.4 | 16 |
| 50 | Solvation of Metal Cations in Non-aqueous Liquids. <i>Journal of Solution Chemistry</i> , 2011 , 40, 1383-1398 | 1.8 | 15 |
| 49 | Hydrogen bond analysis of Type 1 antifreeze protein in water and the ice/water interface. <i>PhysChemComm</i> , 2001 , 4, 32-36 | | 15 |

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| 48 | A Python Program for Solving Schrödinger's Equation in Undergraduate Physical Chemistry. <i>Journal of Chemical Education</i> , 2017 , 94, 813-815 | 2.4 | 14 |
| 47 | Chemical Shift Tensors of Cimetidine Form A Modeled with Density Functional Theory Calculations: Implications for NMR Crystallography. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3109-3119 | 2.8 | 14 |
| 46 | Exploring the physicochemical properties of oxime-reactivation therapeutics for cyclosarin, sarin, tabun, and VX inactivated acetylcholinesterase. <i>Chemical Research in Toxicology</i> , 2014 , 27, 99-110 | 4 | 14 |
| 45 | Comparative Protein Modeling. <i>Reviews in Computational Chemistry</i> , 2006 , 57-167 | | 14 |
| 44 | Monomeric Polyglutamine Structures That Evolve into Fibrils. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5953-5967 | 3-4 | 13 |
| 43 | 2-Substituted 3-Aryltropane Cocaine Analogs Produce Atypical Effects without Inducing Inward-Facing Dopamine Transporter Conformations. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016 , 356, 624-34 | 4-7 | 13 |
| 42 | The dynamics and binding of a Type III antifreeze protein in water and on ice. <i>Computational and Theoretical Chemistry</i> , 1996 , 388, 65-77 | | 13 |
| 41 | Investigations of structure and dynamics of water solvation of the type I antifreeze protein. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 73-80 | 2.1 | 12 |
| 40 | Chapter 5 A Review of the TIP4P, TIP4P-Ew, TIP5P, and TIP5P-E Water Models. <i>Annual Reports in Computational Chemistry</i> , 2005 , 1, 59-74 | 1.8 | 12 |
| 39 | Synthesis and computational evaluation of a boronium ion analogue of the tropane ring system. <i>Tetrahedron Letters</i> , 1996 , 37, 2729-2730 | 2 | 12 |
| 38 | Physical and structural properties of taurine and taurine analogues. <i>Amino Acids</i> , 1997 , 13, 131-139 | 3.5 | 11 |
| 37 | Role of Nonpolar Amino Acid Functional Groups in the Surface Orientation-Dependent Adsorption of Natural and Synthetic Antifreeze Peptides on Ice. <i>Crystal Growth and Design</i> , 2008 , 8, 3420-3429 | 3.5 | 11 |
| 36 | Molecular dynamics simulation studies of the effect of phosphocitrate on crystal-induced membranolysis. <i>Biophysical Journal</i> , 2005 , 89, 2251-7 | 2.9 | 11 |
| 35 | A review of monoamine transporter-ligand interactions. <i>Current Computer-Aided Drug Design</i> , 2013 , 9, 556-68 | 1.4 | 11 |
| 34 | Identifying trends in hydration behavior for modifications to the hydrophobicity of poly(n-isopropylacrylamide). <i>Journal of Molecular Graphics and Modelling</i> , 2017 , 78, 168-175 | 2.8 | 10 |
| 33 | Rapid and sustained antidepressant properties of an NMDA antagonist/monoamine reuptake inhibitor identified via transporter-based virtual screening. <i>Pharmacology Biochemistry and Behavior</i> , 2016 , 150-151, 22-30 | 3.9 | 10 |
| 32 | Teaching Reciprocal Space to Undergraduates via Theory and Code Components of an IPython Notebook. <i>Journal of Chemical Education</i> , 2016 , 93, 2106-2109 | 2.4 | 10 |
| 31 | Structure activity relationships of anthranilic acid-based compounds on cellular and in vivo mitogen activated protein kinase-5 signaling pathways. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 2294-2301 | 2.9 | 10 |

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| 30 | Receptor-Based Discovery of a Plasmalemmal Monoamine Transporter Inhibitor via High Throughput Docking and Pharmacophore Modeling. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 223-233 | 5.7 | 9 |
| 29 | Discovery of novel-scaffold monoamine transporter ligands via in silico screening with the S1 pocket of the serotonin transporter. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 784-92 | 5.7 | 8 |
| 28 | Computational and experimental determination of the alpha-helix unfolding reaction coordinate. <i>Biochemistry</i> , 2008 , 47, 2046-50 | 3.2 | 8 |
| 27 | Biological Testing of Organophosphorus-Inactivated Acetylcholinesterase Oxime Reactivators Identified via Virtual Screening. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1534-40 | 4 | 7 |
| 26 | βAmyloid and neprilysin computational studies identify critical residues implicated in binding specificity. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1157-65 | 6.1 | 6 |
| 25 | Geometric considerations in the calculation of relative free energies of activation. <i>Chemical Physics Letters</i> , 1987 , 141, 83-87 | 2.5 | 6 |
| 24 | Conformational free-energy landscapes for a peptide in saline environments. <i>Biophysical Journal</i> , 2012 , 103, 2513-20 | 2.9 | 5 |
| 23 | An introduction to simulation and visualization of biological systems at multiple scales: a summer training program for interdisciplinary research. <i>Biotechnology Progress</i> , 2006 , 22, 179-85 | 2.8 | 5 |
| 22 | Dopamine Transporter Dynamics of -Substituted Benztropine Analogs with Atypical Behavioral Effects. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018 , 366, 527-540 | 4.7 | 5 |
| 21 | Structural dynamics of the monoamine transporter homolog LeuT from accelerated conformational sampling and channel analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 2289-302 | 4.2 | 4 |
| 20 | Homology models for the tetrameric and dodecameric complexes of Lumbricus terrestris hemoglobin. <i>Computational and Theoretical Chemistry</i> , 2002 , 592, 173-181 | | 4 |
| 19 | Quantitative Impact of a Cognitive Modeling Intelligent Tutoring System on Student Performance in Balancing Chemical Equations. <i>The Chemical Educator</i> , 2002 , 7, 379-383 | | 4 |
| 18 | Methods for calculating geometries of transition states in solution. <i>Chemical Physics</i> , 1989 , 129, 185-191 | 2.3 | 4 |
| 17 | Structure and Dynamics Study of LeuT Using the Markov State Model and Perturbation Response Scanning Reveals Distinct Ion Induced Conformational States. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8361-8 | 3.4 | 3 |
| 16 | Molecular dynamics of conformation-specific dopamine transporter-inhibitor complexes. <i>Journal of Molecular Graphics and Modelling</i> , 2017 , 76, 143-151 | 2.8 | 3 |
| 15 | Docking Substrates to Metalloenzymes. <i>Molecular Simulation</i> , 2000 , 24, 293-306 | 2 | 3 |
| 14 | Gibbs free energies of formation of pcdds: Evaluation of estimation methods and application for predicting dehalogenation pathways 1996 , 15, 824 | | 3 |
| 13 | A combined computational and experimental approach reveals the structure of a C/EBPβSpi1 interaction required for gene transcription. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19942-19956 | 5.4 | 3 |

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| 12 | Computational Chemistry in the Undergraduate Curriculum. <i>Reviews in Computational Chemistry</i> , 2007 , 149-228 | | 1 |
| 11 | A cell multipole based domain decomposition algorithm for molecular dynamics simulation of systems of arbitrary shape. <i>Computer Physics Communications</i> , 2002 , 144, 141-153 | 4.2 | 1 |
| 10 | CoMFA 3D-QSAR Analysis of HIV-1 RT Nonnucleoside Inhibitors, TIBO Derivatives Based on Docking Conformation and Alignment.. <i>ChemInform</i> , 2005 , 36, no | | 1 |
| 9 | MT1 receptor binding pocket insights based on de novo molecular modeling. <i>FASEB Journal</i> , 2006 , 20, A1119 | 0.9 | 1 |
| 8 | CO2(aq) Parameterization Through Free Energy Perturbation/Monte Carlo Simulations for Use in CO2 Sequestration 2009 , 337-357 | | 1 |
| 7 | Development of an improved four-site water model for biomolecular simulations: TIP4P-Ew | | 1 |
| 6 | Brownian Dynamics | | 1 |
| 5 | Sodium versus potassium effects on the glutamic acid side-chains interaction on a heptapeptide. <i>Journal of Theoretical and Computational Chemistry</i> , 2014 , 13, 1440004 | 1.8 | 0 |
| 4 | A novel hybrid simulation for study of multiscale phenomena. <i>Molecular Simulation</i> , 2006 , 32, 825-830 | | 2 |
| 3 | Nucleic Acids: Structures, Properties, and Function. By Victor A. Bloomfield, Donald M. Crothers, and Ignacio Tinoco, Jr. University Science Books: Sausalito, CA; 2000. Clothbound, 800 pp, \$88.00, ISBN 0-935702-49-0. <i>The Chemical Educator</i> , 2001 , 6, 70-71 | | |
| 2 | Modeling of Antifreeze Proteins. <i>Theoretical and Computational Chemistry</i> , 1999 , 8, 537-568 | | |
| 1 | Free Energy Perturbation Monte Carlo Simulations of Salt Influences on Aqueous Freezing Point Depression 2009 , 359-370 | | |