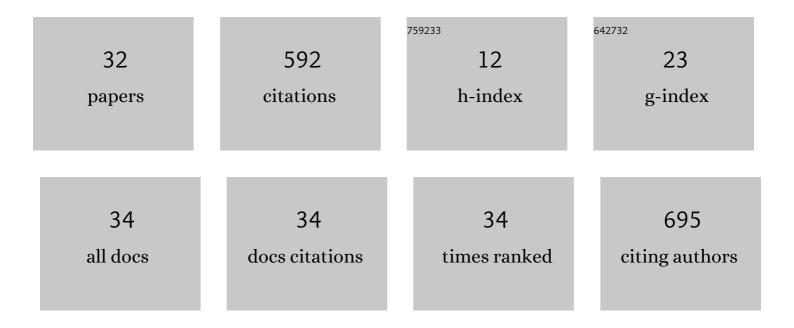
## **Zhixiong Lin**

List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Validation of the GROMOS 54A7 Force Field with Respect to β-Peptide Folding. Journal of Chemical Theory and Computation, 2011, 7, 1237-1243.   | 5.3  | 184       |
| 2  | Refinement of the application of the GROMOS 54A7 force field to β-peptides. Journal of Computational Chemistry, 2013, 34, 2796-2805.   | 3.3  | 51        |
| 3  | Improved Alchemical Free Energy Calculations with Optimized Smoothstep Softcore Potentials.<br>Journal of Chemical Theory and Computation, 2020, 16, 5512-5525.  | 5.3  | 35        |
| 4  | Refining the description of peptide backbone conformations improves protein simulations using the GROMOS 53A6 force field. Journal of Computational Chemistry, 2009, 30, 645-660.  | 3.3  | 34        |
| 5  | Accounting for the Central Role of Interfacial Water in Protein–Ligand Binding Free Energy<br>Calculations. Journal of Chemical Theory and Computation, 2020, 16, 7883-7894.   | 5.3  | 24        |
| 6  | A Cloud Computing Platform for Scalable Relative and Absolute Binding Free Energy Predictions: New<br>Opportunities and Challenges for Drug Discovery. Journal of Chemical Information and Modeling,<br>2021, 61, 2720-2732.   | 5.4  | 23        |
| 7  | Prediction of Folding Equilibria of Differently Substituted Peptides Using One-Step Perturbation.<br>Journal of the American Chemical Society, 2010, 132, 7276-7278.   | 13.7 | 19        |
| 8  | On the Use of Enveloping Distribution Sampling (EDS) to Compute Free Enthalpy Differences between<br>Different Conformational States of Molecules: Application to 3 <sub>10</sub> -, α-, and π-Helices.<br>Journal of Chemical Theory and Computation, 2011, 7, 3884-3897. | 5.3  | 18        |
| 9  | The effect of using a polarizable solvent model upon the folding equilibrium of different β-peptides.<br>Molecular Physics, 2011, 109, 493-506.  | 1.7  | 18        |
| 10 | Helical Content of a β <sup>3</sup> â€Octapeptide in Methanol: Molecular Dynamics Simulations Explain a<br>Seeming Discrepancy between Conclusions Derived from CD and NMR Data. Chemistry - A European<br>Journal, 2012, 18, 586-593.                                     | 3.3  | 14        |
| 11 | Reoptimized interaction parameters for the peptideâ€backbone model compound<br><i>N</i> â€methylacetamide in the CROMOS force field: Influence on the folding properties of two<br>betaâ€peptides in methanol. Journal of Computational Chemistry, 2012, 33, 1907-1917.    | 3.3  | 13        |
| 12 | Free Enthalpy Differences between α-, ï€-, and 3 <sub>10</sub> -Helices of an Atomic Level Fine-Grained<br>Alanine Deca-Peptide Solvated in Supramolecular Coarse-Grained Water. Journal of Chemical Theory<br>and Computation, 2013, 9, 1328-1333.                        | 5.3  | 13        |
| 13 | A one-site polarizable model for liquid chloroform: COS/C. Molecular Physics, 2010, 108, 1749-1757.  | 1.7  | 12        |
| 14 | Conformational stateâ€specific free energy differences by oneâ€step perturbation: Protein secondary structure preferences of the GROMOS 43A1 and 53A6 force fields. Journal of Computational Chemistry, 2011, 32, 2290-2297.   | 3.3  | 12        |
| 15 | Using enveloping distribution sampling to compute the free enthalpy difference between right- and left-handed helices of a β-peptide in solution. Journal of Chemical Physics, 2012, 137, 064108.  | 3.0  | 12        |
| 16 | Scaffold Hopping Transformations Using Auxiliary Restraints for Calculating Accurate Relative Binding Free Energies. Journal of Chemical Theory and Computation, 2021, 17, 3710-3726.  | 5.3  | 12        |
| 17 | Enhanced conformational sampling using enveloping distribution sampling. Journal of Chemical Physics, 2013, 139, 144105.   | 3.0  | 11        |
| 18 | Using oneâ€step perturbation to predict the effect of changing forceâ€field parameters on the simulated<br>folding equilibrium of a βâ€peptide in solution. Journal of Computational Chemistry, 2010, 31, 2419-2427.   | 3.3  | 9         |

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|----|---|-----|-----------|
| 19 | Using one-step perturbation to predict the folding equilibrium of differently stereochemically substituted Î <sup>2</sup> -peptides. Physical Chemistry Chemical Physics, 2010, 12, 15442.  | 2.8 | 8         |
| 20 | Combination of Enveloping Distribution Sampling (EDS) of a Soft-Core Reference-State Hamiltonian<br>with One-Step Perturbation to Predict the Effect of Side Chain Substitution on the Relative Stability<br>of Right- and Left-Helical Folds of Î <sup>2</sup> -Peptides. Journal of Chemical Theory and Computation, 2013, 9,<br>126-134. | 5.3 | 8         |
| 21 | Effects of Polarizable Solvent Models upon the Relative Stability of an α-Helical and a β-Hairpin<br>Structure of an Alanine Decapeptide. Journal of Chemical Theory and Computation, 2015, 11, 1983-1986.  | 5.3 | 8         |
| 22 | Exploring the Effect of Side-Chain Substitutions upon the Secondary Structure Preferences of β-Peptides. Journal of Physical Chemistry B, 2011, 115, 12984-12992.   | 2.6 | 7         |
| 23 | On the use of one-step perturbation to investigate the dependence of NOE-derived atom–atom distance<br>bound violations of peptides upon a variation of force-field parameters. European Biophysics Journal,<br>2014, 43, 113-119.  | 2.2 | 7         |
| 24 | Influence of Variation of a Side Chain on the Folding Equilibrium of a <i>β</i> â€₽eptide. Helvetica Chimica<br>Acta, 2011, 94, 597-610.  | 1.6 | 5         |
| 25 | The effect of branched side chains on the relative stability of <i>α</i> - and <i>ï€</i> -helices: a combination of the enveloping distribution sampling and one-step perturbation methods <sup>â€</sup> . Molecular Physics, 2013, 111, 2126-2130.   | 1.7 | 5         |
| 26 | On the choice of a reference state for oneâ€step perturbation calculations between polar and nonpolar molecules in a polar environment. Journal of Computational Chemistry, 2013, 34, 387-393.  | 3.3 | 5         |
| 27 | Use of Enveloping Distribution Sampling to Evaluate Important Characteristics of Biomolecular Force<br>Fields. Journal of Physical Chemistry B, 2014, 118, 6424-6430.   | 2.6 | 4         |
| 28 | Using enveloping distribution sampling to compute the folding free enthalpy of a β-peptide with a very<br>unstable folded conformation in solution: The advantage of focused sampling using EDS. Chemical<br>Physics, 2014, 428, 156-163.   | 1.9 | 3         |
| 29 | On the Sensitivity of Peptide Nucleic Acid Duplex Formation and Crystal Dissolution to a Variation of Force-Field Parameters. Journal of Chemical Theory and Computation, 2014, 10, 391-400.  | 5.3 | 3         |
| 30 | GROMOS polarizable charge-on-spring models for liquid urea: COS/U and COS/U2. Journal of Chemical Physics, 2015, 142, 094117.   | 3.0 | 3         |
| 31 | Influence of variation of a side chain on the folding equilibrium of a βâ€peptide: Limitations of oneâ€step<br>perturbation. Journal of Computational Chemistry, 2013, 34, 1899-1906.   | 3.3 | 1         |
| 32 | A comparison of pathwayâ€independent and pathwayâ€dependent methods in the calculation of conformational free enthalpy differences. Protein Science, 2016, 25, 184-191.   | 7.6 | 1         |