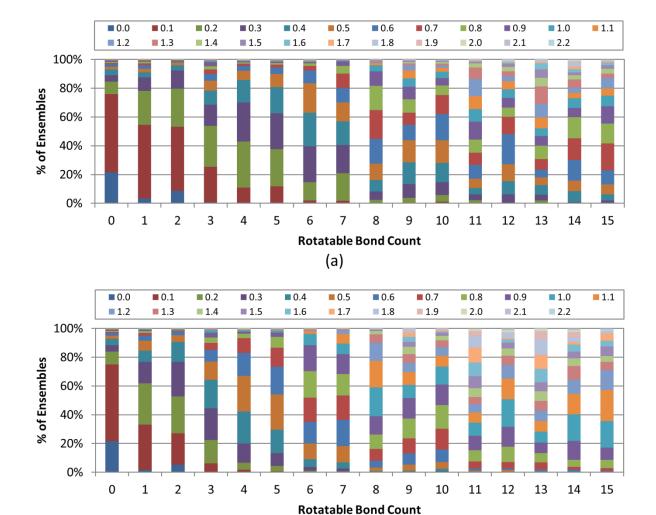


Figure S1. Distribution of the RMSD accuracy of the conformer model vs. the non-hydrogen atom count. The % distribution of the RMSD accuracy of the conformer model as a function of the non-hydrogen atom count: (a) before clustering and (b) after clustering.



(b)

Figure S2. Distribution of the RMSD accuracy of the conformer model vs. the rotatable bond count. The % distribution of the RMSD accuracy of the conformer model as a function of the rotatable bond count: (a) before clustering and (b) after clustering.

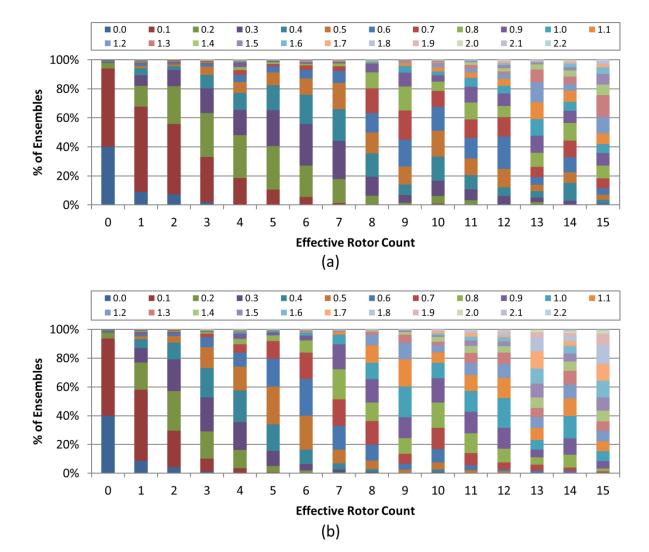


Figure S3. Distribution of the RMSD accuracy of the conformer model vs. the effective rotor count. The % distribution of the RMSD accuracy of the conformer model as a function of the effective rotor count: (a) before clustering and (b) after clustering.

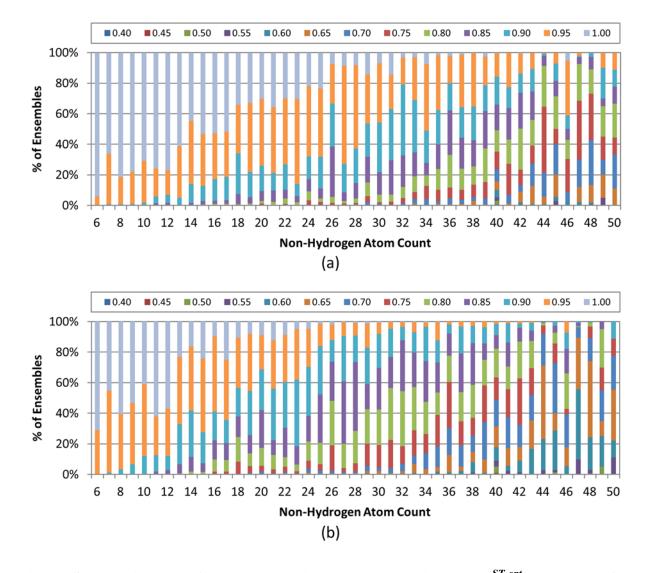
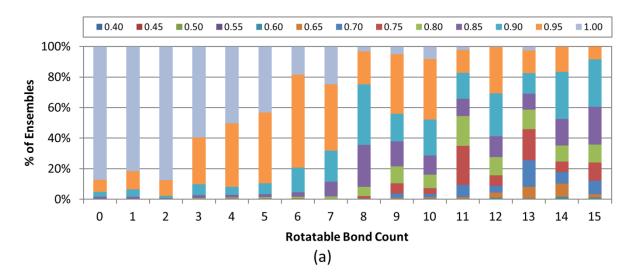


Figure S4. Distribution of the shape-optimzed shape-Tanimoto (ST^{ST-opt}) accuracy of the conformer model vs. the non-hydrogen atom count. The % distribution of the ST^{ST-opt} accuracy of the conformer model as a function of the non-hydrogen atom count: (a) before clustering and (b) after clustering.



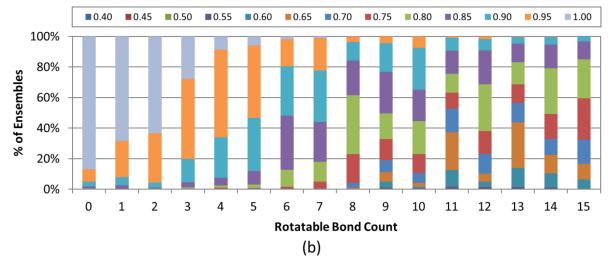
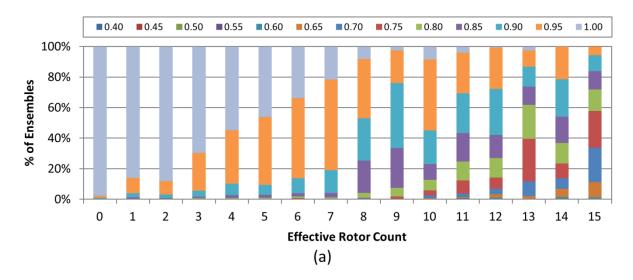


Figure S5. Distribution of the shape-optimzed shape-Tanimoto (ST^{ST-opt}) accuracy of the conformer model vs. the rotatable bond count. The % distribution of the ST^{ST-opt} accuracy of the conformer model as a function of the rotatable bond count: (a) before clustering and (b) after clustering.



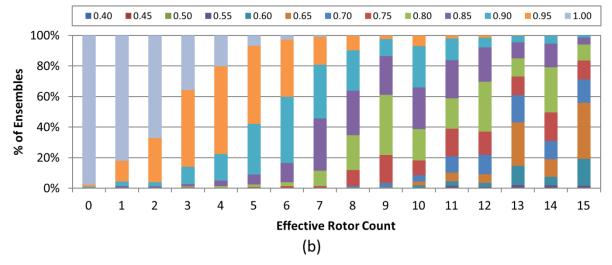
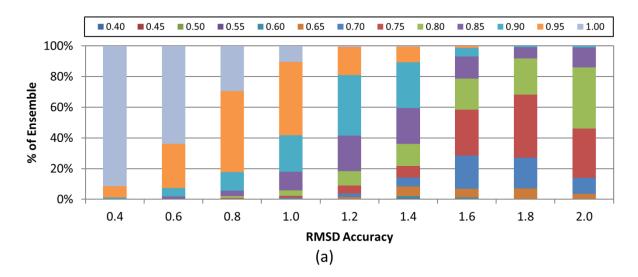


Figure S6. Distribution of the shape-optimzed shape-Tanimoto (ST^{ST-opt}) accuracy of the conformer model vs. the effective rotor count. The % distribution of the ST^{ST-opt} accuracy of the conformer model as a function of the effective rotor count: (a) before clustering and (b) after clustering.



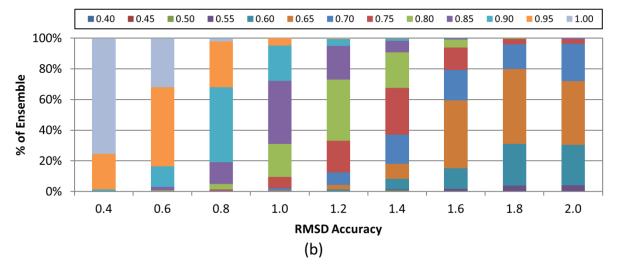


Figure S7. Correlation between the RMSD accuracy and shape-optimized shape-Tanimoto (ST^{ST-opt}) accuracy of the conformer models. The % distribution of the conformer models as a function of the ST^{ST-opt} accuracy for a given RMSD accuracy: (a) before cluster and (b) after clustering.