

# Entropy from State Probabilities: Hydration Entropy of Cations

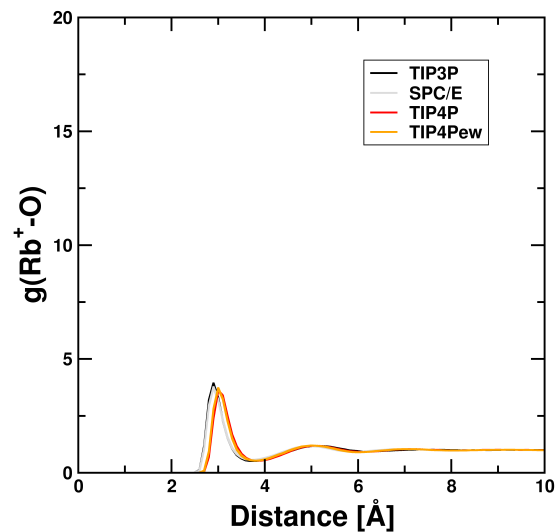
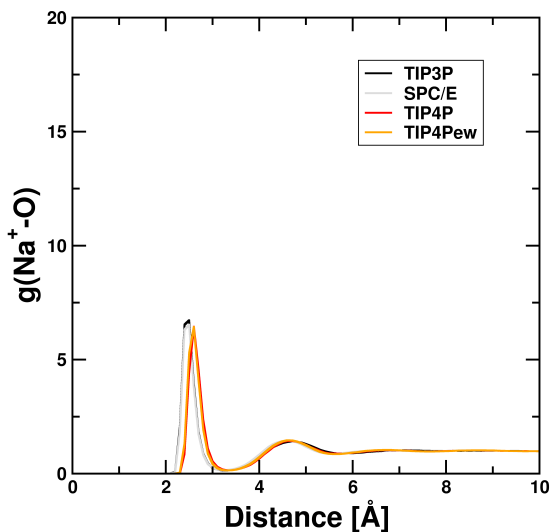
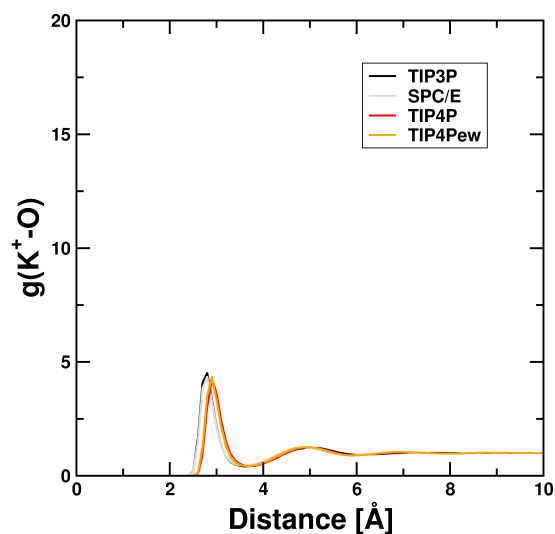
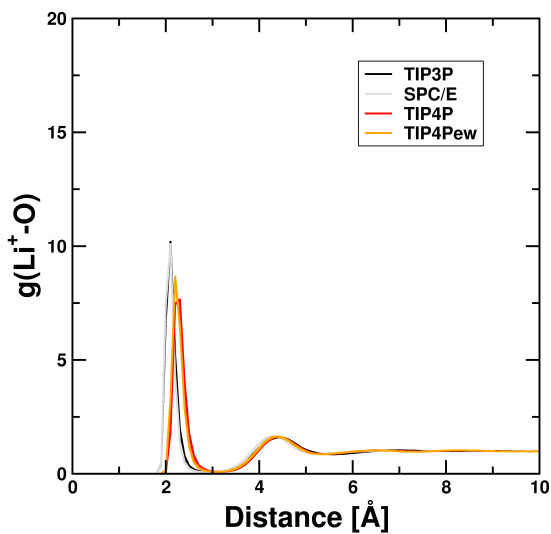
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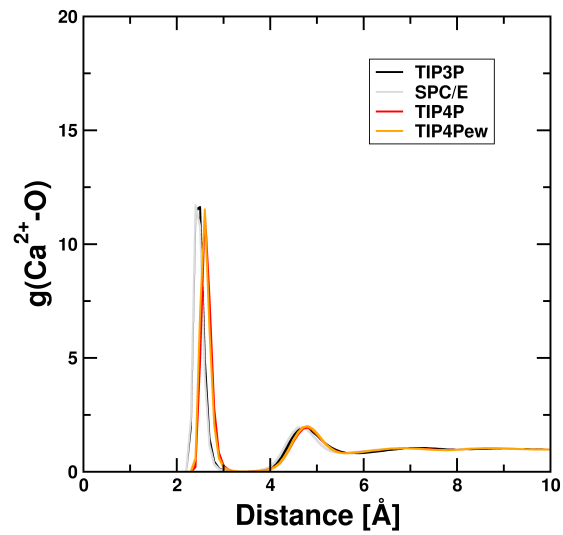
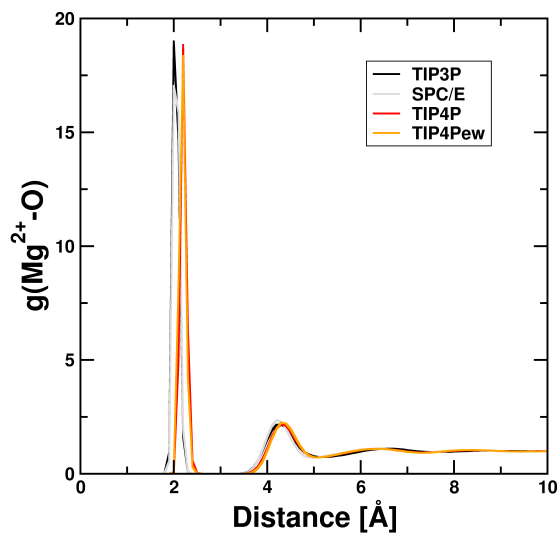
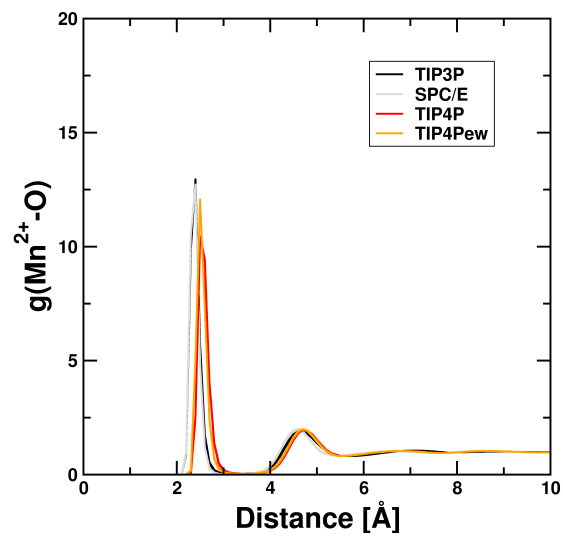
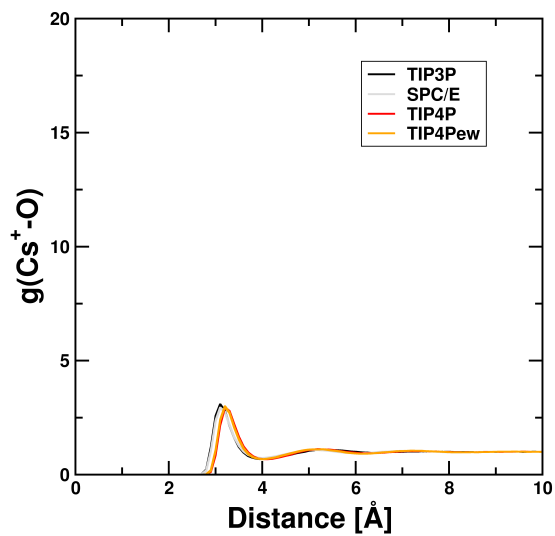
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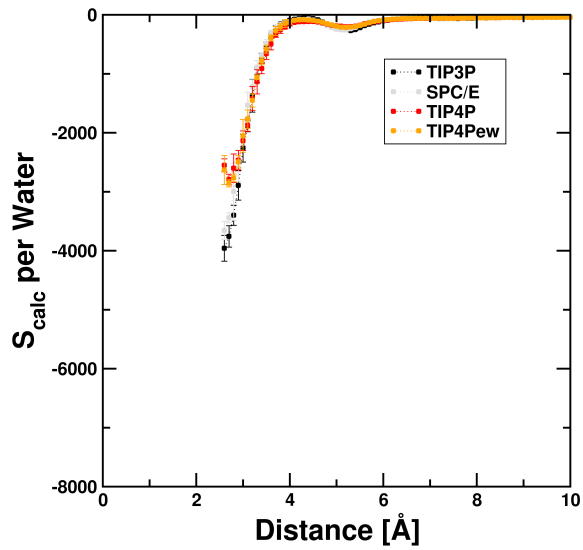
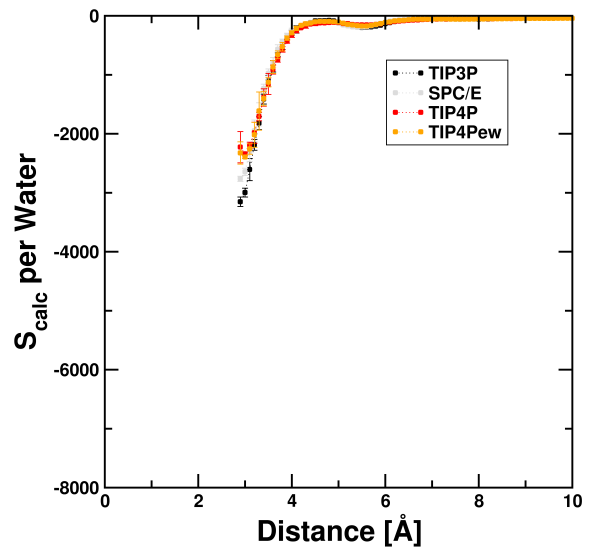
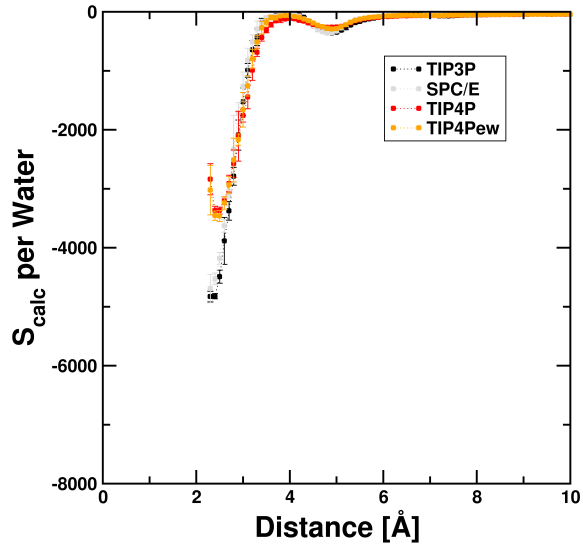
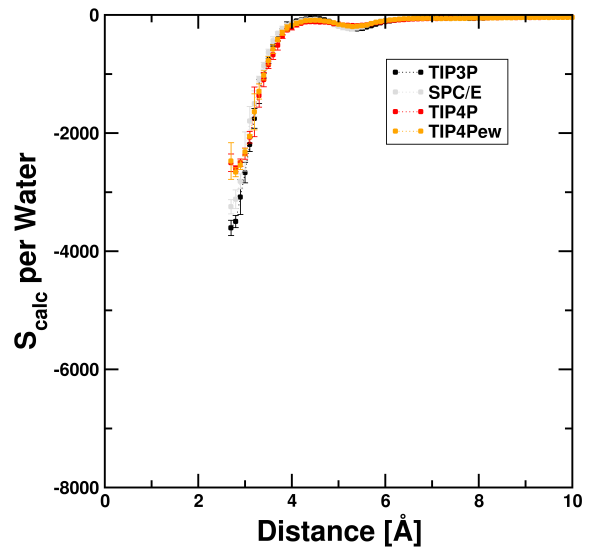
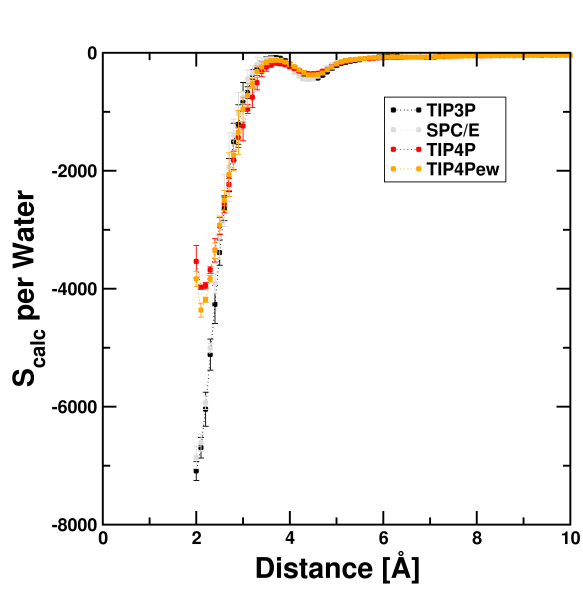
**KEYWORDS** Entropy, Probability, Distributions, Ions, Hydration, Molecular Dynamics, Kernel Density Estimation

## 1. Radial Distribution Functions

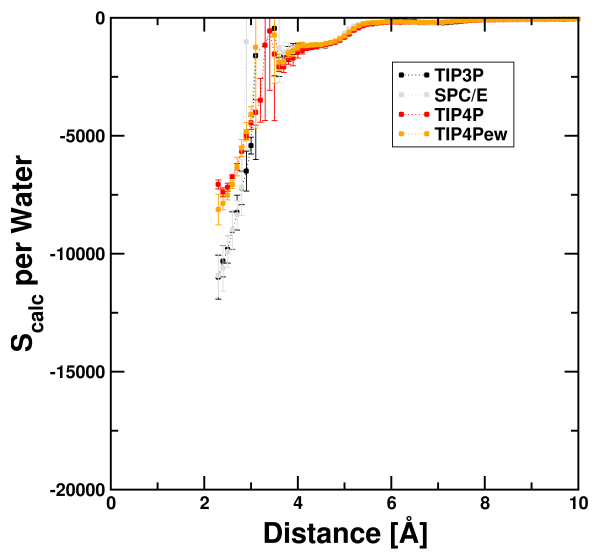
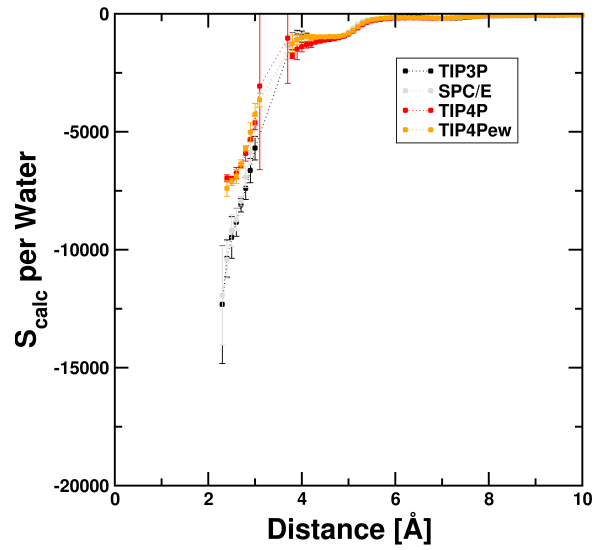
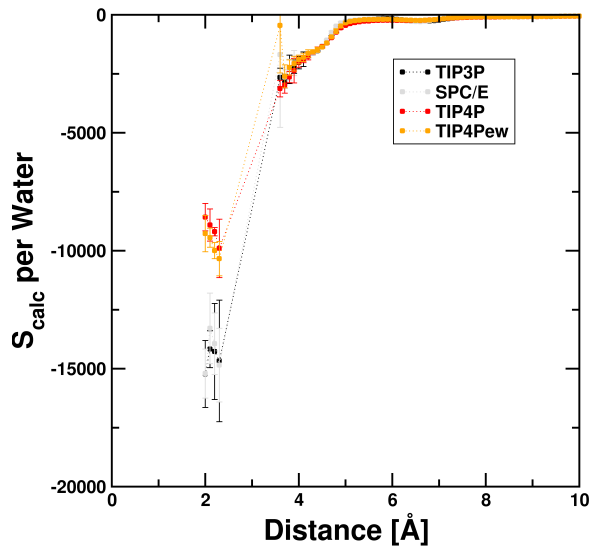




## 2. Distance-Dependent Entropy



$\text{Li}^+$      $\text{Rb}^+$   
 $\text{Na}^+$     $\text{Cs}^+$   
 $\text{K}^+$



$\text{Mg}^{2+}$

$\text{Mn}^{2+}$

$\text{Ca}^{2+}$

