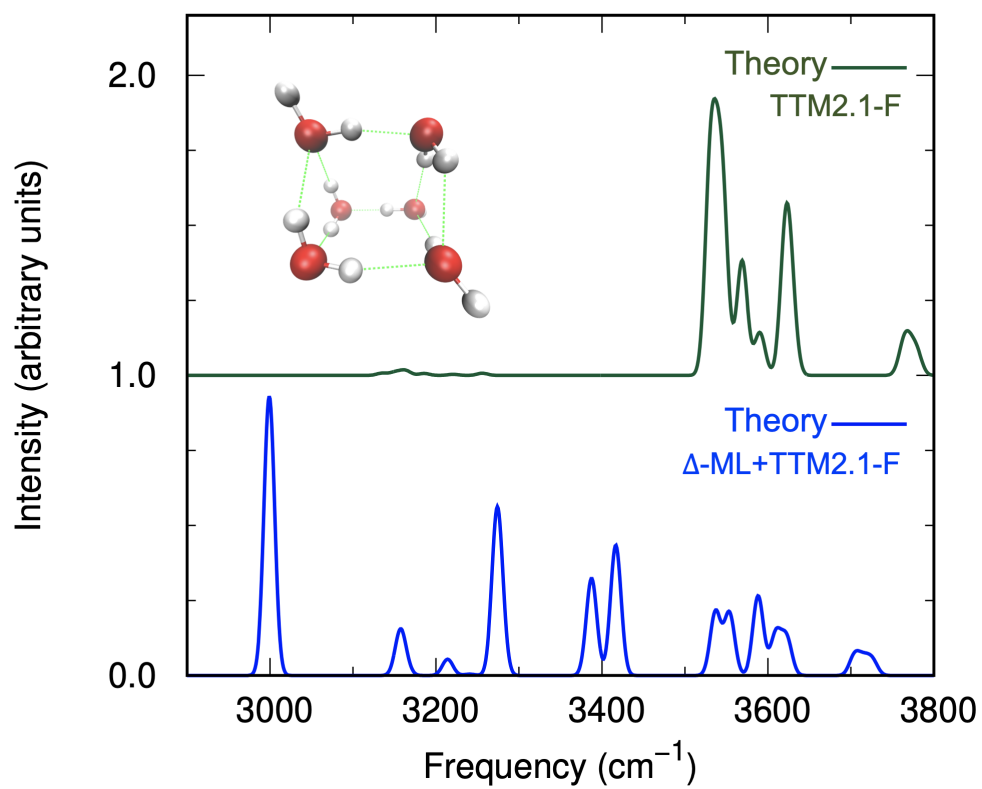


Supplementary Information: Many-body
 Δ -Machine Learning brings the accuracy of
conventional force field to coupled cluster:
application to the TTM2.1 water force field

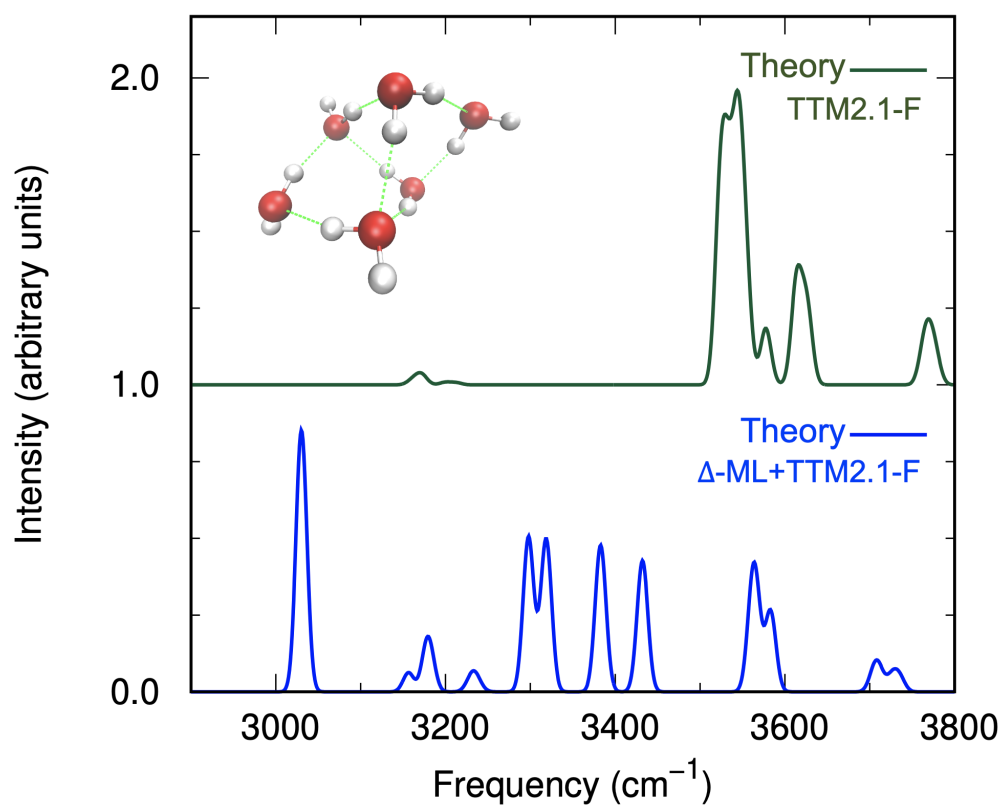
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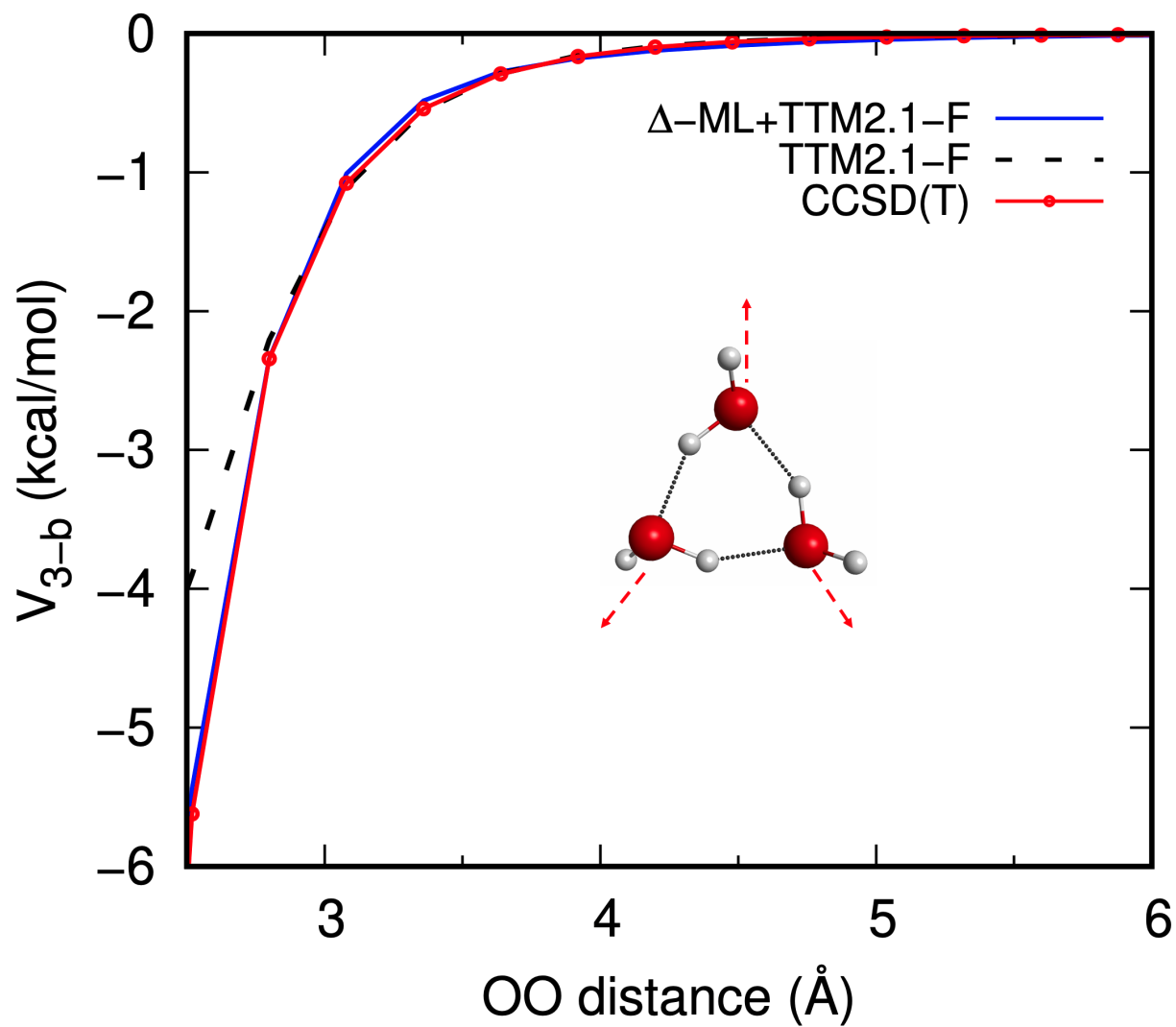
Supplementary Figures



Supplementary Figure 1: Theoretical VSCF/VCI spectra of the water prism hexamer using TTM2.1-F and Δ -ML corrected TTM2.1-F potential.



Supplementary Figure 2: Theoretical VSCF/VCI spectra of the water cage hexamer using TTM2.1-F and Δ -ML corrected TTM2.1-F potential.



Supplementary Figure 3: Comparison of the Δ -ML corrected TTM2.1-F 3-b potential, the TTM2.1-F 3-b potential, and the direct CCSD(T) energies for an attractive cut with trimer configuration dissociating to three monomers. All the CCSD(T) energies are calculated at CCSD(T)-F12/aVTZ level of theory