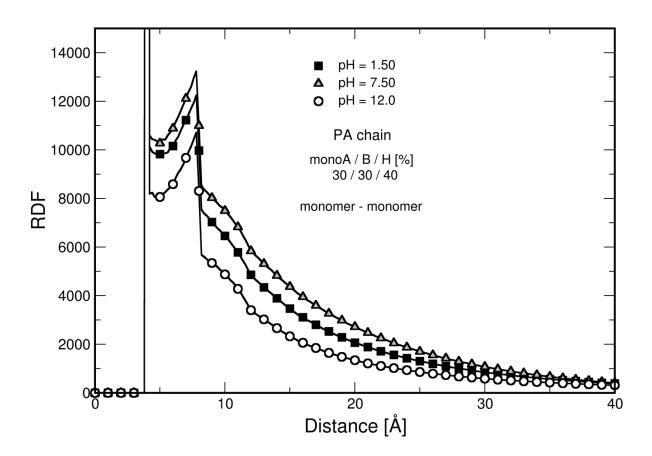
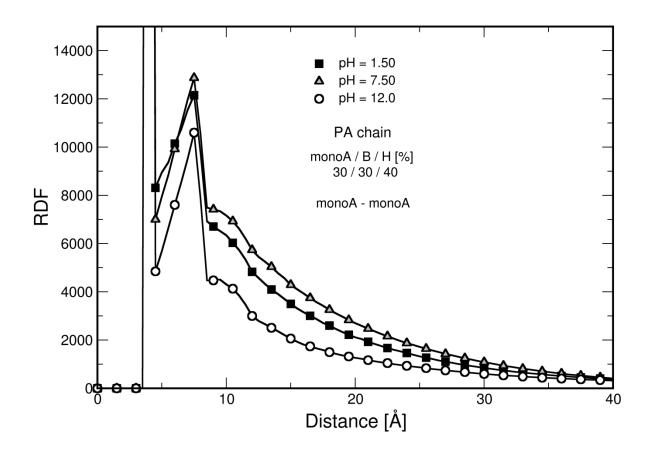
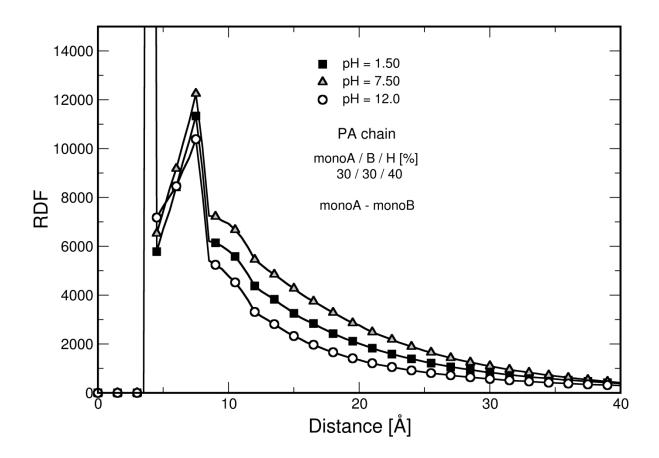
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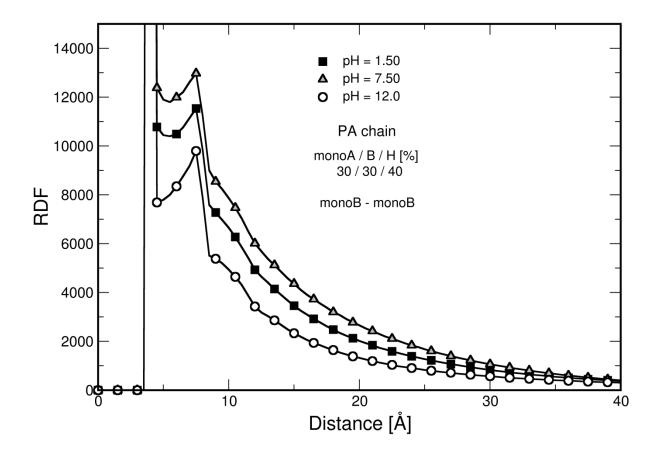
S1. Monomer – monomer Radial Distribution Function of a random polymer chain at different pH values.



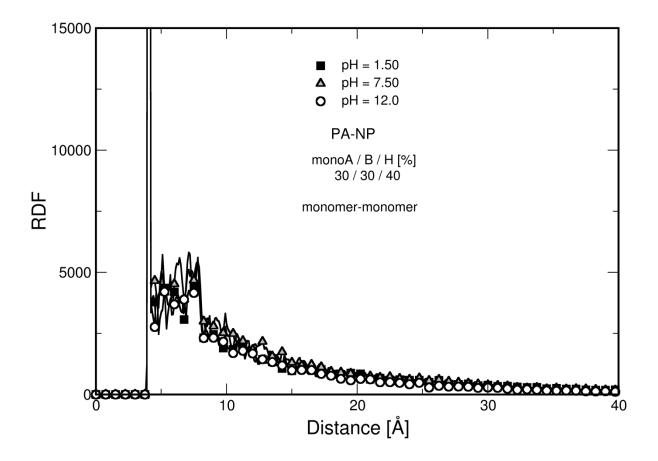
S2. Monomer A – monomer A, Radial Distribution Function of a random polymer chain at different pH values.



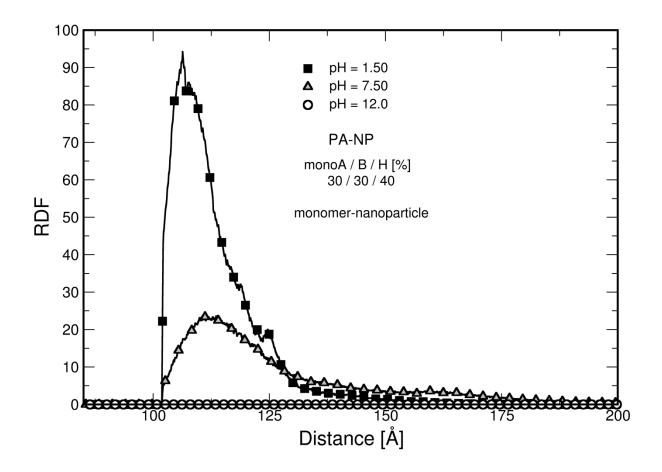
 ${\bf S3.}$ Monomer A – monomer B, Radial Distribution Function of a random polymer chain at different pH values.



 ${\bf S4.}$ Monomer B – monomer B, Radial Distribution Function of a random polymer chain at different pH values.



S5. Monomer – monomer, Radial Distribution Function of a random polymer chain at different pH values and in the presence of the NP.



S6. Monomer – nanoparticle, Radial Distribution Function of a random polymer chain at different pH values and in the presence of the NP.