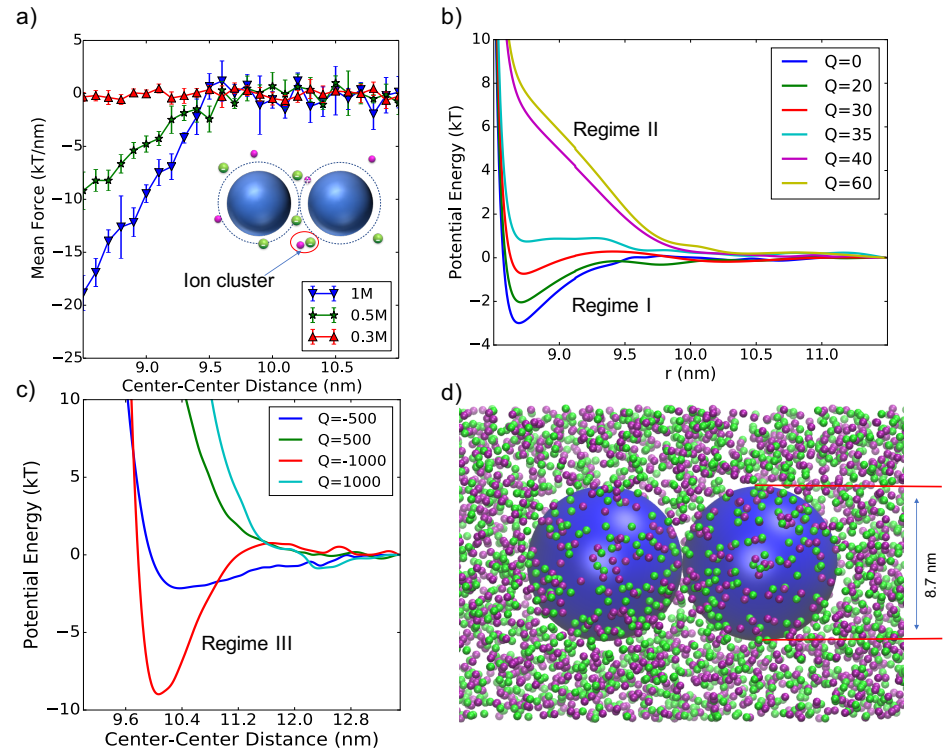


Strong Attractions and Repulsions Mediated by Monovalent Salts

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By adapting a coarse-grained technique that reproduces electrolyte correlations and applying it to the ubiquitous systems of nanoparticles and proteins in salt solutions, we have discovered novel descriptions of nanoparticle interactions that are overlooked by classical mean-field theory for electrolytes. This prediction agrees with recent experiments and advances the understanding of microstructures and interactions of biomolecules.



The mean force and potential of mean force between two neutral or charged particles immersed in monovalent salt solutions