سمینارهفتگی ماده چگال نرم

Statistical mechanics of poly[n] catenens

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Abstract

Poly[n]catenanes are a linear sequence of linked ring polymers by mechanical bonds. These structure are synthesized or naturally occur in circular DNAs. Here, we are interested in the size of poly[n]catenanes. Size of a polymer is well defined by radius of gyration. First, we propose a relation for radius of gyration based on simulation data. Then, we present a Floy theory argument which supports the relation. Finally, we study this structure in solvent of varying quality close to θ point.

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