



سمینار هفتگی ماده چگال نرم

Linked rings in shear flow

Abstract

The behavior of rigid and soft mesoscopic particles in shear flow is of considerable interest both from a fundamental and an applied viewpoint. Most soft matter systems have been investigated vastly in shear flow, such as vesicles, rod-like polymers, knotted and unknotted ring polymers, and star polymers. These studies show that non-equilibrium polymer dynamics is an intricate hybrid of hydrodynamics interaction and polymer topology. Motivated by this and recent advances in Poly[2]Catenane synthesis, I will talk about the dynamics of the two catenated ring polymers in shear flow.

Reyhaneh Farimiani

Sharif University of Technology

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