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Title:

*How macromolecular architecture affects physical properties of polymers?*

Abstract:

Significant progress in polymerization techniques allows to synthesize macromolecules with complex, yet precisely controlled structure. Three distinct examples are branched bottlebrushes, star polymers and ring-like polymers. During the talk I will demonstrate that variation of macromolecular architecture affects structural, mechanical, interfacial and frictional properties of polymers as compared to conventional linear chains.

