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## Molecular dynamics studies of entangled polymer chains

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## Publications

### Journal papers

Monica Bulacu, Erik Van der Giessen (2005) *Effect of bending and torsion rigidity on self-diffusion in polymer melts: A molecular-dynamics study*, J. Chem. Phys. 123 (11) 114901, 2005.

Monica Bulacu, Erik Van der Giessen (2007) *Molecular-dynamics simulation study of the glass transition in amorphous polymers with controlled chain stiffness*, Phys. Rev. E 76 (1) 011807, 2007.

Monica Bulacu, Erik Van der Giessen (2007) *Tensile debonding simulations of polymer-polymer interface reinforced with connector chains*, submitted to Macromolecules, 2007.

### Papers in conference proceedings

Monica Bulacu, Erik Van der Giessen (2004) *Towards polymer-polymer adhesion reinforced with connector chains: a multiscale simulation*, Proc. of 40th World Polymer Congress "Macro 2004", CD-rom, 4–9 July 2004, Paris, France.

Monica Bulacu, Erik Van der Giessen (2005) *Molecular-dynamics simulations of tensile debonding of reinforced polymer-polymer interfaces*, Proc. of 13th International Conference on Deformation, Yield and Fracture of Polymers, pp. 23-26, 10–13 April 2006, Rolduc Abbey, Kerkrade, The Netherlands.

