



Vabilo na Forum40 / Invitation to the Forum40

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Laboratory for Polymer Chemistry and Technology, L-07

Četrtek / thursday, 17.3.2016 ob / at 13:00

Velika predavalnica Kemijskega inštituta/ Lecture hall, National Institute of
Chemistry; Hajdrihova 19, Ljubljana

Ring-opening polymerization of different heterocyclic monomers

Well defined polymers such as polyethers, polyesters and polypeptides are synthesized by ring-opening polymerization of corresponding cyclic monomers, i.e. epoxides, lactones and *N*-carboxyanhydrides, respectively. Such polymerization mechanism results in polymers with controlled molar mass characteristics and chain-end fidelity which enable the preparation of block-copolymers and polymers with complex macromolecular architectures. Due to the difference in reactivity of individual monomers different initiator/catalytic systems for good control over the polymerization are usually required. Approaches to one-pot sequential block-copolymerization of different monomers, the use of unconventional initiators and various post-polymerization modifications will be discussed, supported by detailed characterization of macromolecular structures in order to determine the structure-properties relationship.

Vljudno vabljeni / Kindly invited