

Early Transition Metal Catalyzed Living Radical and Ring Opening Polymerizations for Complex Copolymer Architectures

Alexandru D. Asandei, University of Connecticut, Department of Chemistry, Storrs CT, 06269

The Cp₂TiCl mediated radical ring opening of epoxides, SET reduction of aldehydes, halide activation and redox reaction with peroxides were demonstrated as novel initiating methodologies for the living radical polymerization (LRP) of styrene, living ring opening polymerization of lactone and for the synthesis of complex polymer architectures.

