



## Polymerization Kinetics

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### Message from the Guest Editor

The study of polymerization kinetics is fundamental to the production of polymers. While thermodynamic considerations determine whether or not a given monomer will polymerize, the properties of the resulting polymer depend on kinetic parameters. These properties include the chain length distribution, tacticity, and composition (in the case of copolymers). The last 25 years have seen a revitalization of polymer chemistry, with the development of many new polymerization techniques. Most recently, the concept of precision polymer synthesis has emerged, which seeks to control all aspects of polymer structure. Accompanying these developments has been a resurgence of interest in polymerization kinetics. The interplay of synthesis and kinetic analysis has allowed the development of new structures and architectures which were previously impossible. This Special Issue of *Polymers* is dedicated to current efforts in the study of polymerization kinetics. Of particular interest are the application of kinetic studies to precision polymerization, and the use of insights derived from polymerization kinetics to the synthesis of new polymers and copolymers.





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