Download Ring Opening Polymerization Mechanisms Catalysis Structure Utility

Aliphatic polyethers generated by the ring-opening polymerization (ROP) of the epoxide monomers ethylene oxide (EO), propylene oxide (PO), and, to a lesser extent, butylene oxide (BO) are a highly established and important class of polymers that are commercially used for an immense variety of applications.In this Review, recent advances directed toward the optimization of the direct arylation polymerization protocol are critically discussed in the context of how they have motivated the development and refinement of conditions.This review reports the recent advances in the most important and straightforward synthetic protocols for incorporating catechols into (bio)polymers, and discusses the emerging applications of these innovative multifunctional materials in biomedical, energy storage and environmental applications.937: Zhang, Y.-H.; Gao, Z.-X.; Zhong, C.-L.; Zhou, H.-B.; Chen, L.; Wu, W.-M.; Peng, X.-J.; Yao, Z.-J. An Inexpensive Fluorescent Labeling Protocol for Bioactive ...