THE INSTITUTE FOR MOLECULAR ENGINEERING

Seminar Series

SPEAKER

Nathaniel Lynd

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Recent developments in the synthesis and application of functional polyethers

The versatility of ring-opening anionic polymerization is derived from its ring-strain driving force, which places few restrictions on the exact structure of the epoxide monomer. Analysis of the relative reactivities of epoxide monomers in copolymerization by 1H NMR spectroscopic analysis of comonomer dyad populations, coupled with theoretical insight, provide the practical and conceptual tools required for understanding the trends in reactivity in anionic epoxide copolymerizations. I will describe our efforts in understanding the relative reactivities of epoxide monomers, and in engineering reactive, and responsive polyether-based materials

Thursday, January 23rd

10 AM GCIS W301

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