Single-Crystal-to-Single-Crystal Topochemical Polymerizations by Design

Abstract
One significant demonstration of solid-state organic chemistry is the ability to design a molecular solid for form and function. This has been the central goal of our research, which is focused upon single-crystal-to-single-crystal topochemical polymerizations. Over the years we have combined molecular and crystal design, organic synthesis, x-ray crystallography and a little luck to prepare several new types of polymeric systems. This presentation will combine a quick review of our past work along with a look at our current work on tubular addition polymers.