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Chain-Growth Cycloaddition Polymerization via a Catalytic Alkyne [2+2+2] Cyclotrimerization Reaction and Its Application to One-Shot Spontaneous Block Copolymerization


**[2+2+2] for Chain-Growth Polymerization**

**Significance:** Linear polymers were formed from alkyne-diyne monomers via catalytic alkyne cycloaddition in a chain-growth manner. Two monomers with significantly different reactivity produced a block copolymer by one-shot polymerization.

**Comment:** Electron-deficient additives such as DMAD or triyne A were employed to activate the catalysis rapidly.