Y. SUGIYAMA, R. KATO, T. SAKURADA, S. OKAMOTO* (KANAGAWA UNIVERSITY, YOKOHAMA, JAPAN)
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 yne-diyne monomers via catalytic alkyne cycload-
dition 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.

SYNFACTS Contributors: Timothy M. Swager, Ggoch Ddeul Han
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