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Nanoparticle morphology evolution during a seeded emulsion polymerization was probed using both experimental and computational tools. Janus dumbbell and multilobe morphologies are determined by diffusion kinetics that is influenced by solvent composition and crosslinking density. The results suggest novel approaches to produce and control hierarchical polymeric nanoparticle morphologies.

Morphology evolution of Janus dumbbell nanoparticles in seeded emulsion polymerization (Y. Li et al., Volume 543 (2019) 34–42). www.elsevier.com/locate/jcis