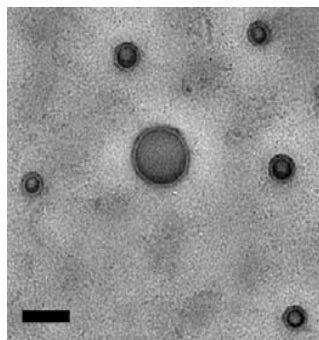
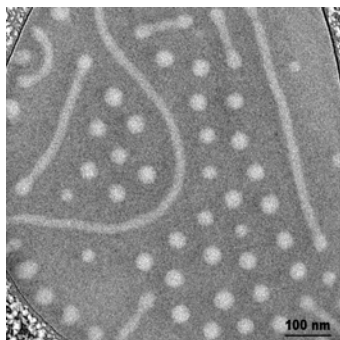


Block Copolymer Nanostructures

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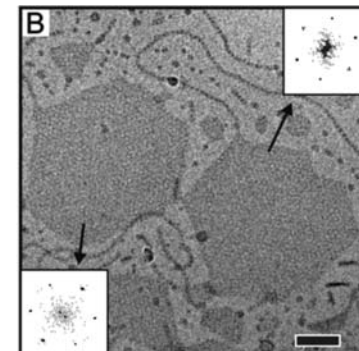
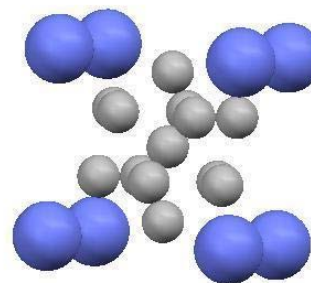
DESCRIPTION OF WORK

- ◆ Multicompartment micelles from miktoarm star terpolymers
- ◆ Superlattices from mixtures of copolymer micelles
- ◆ Copolymer vesicles in liquid CO₂
- ◆ Copolymer micelles in ionic liquids



MAJOR OBSERVATIONS

- ◆ First laterally nanostructured bilayers reported
- ◆ First superlattice from block copolymer micelles
- ◆ First non-spherical copolymer micelles in CO₂
- ◆ First copolymer micelles in ionic liquids



Publications

- ◆ Li, Z.; Hillmyer, M.A.; Lodge, T.P. *Morphologies of Multicompartment Micelles Formed by ABC Miktoarm Star Terpolymers*. Langmuir, **2006**, 22, 9409.
- ◆ Edmonds, W.F.; Li, Z.; Hillmyer, M.A.; Lodge, T.P. *Disk Micelles from Nonionic Coil-Coil Diblock Copolymers*. Macromolecules, **2006**, 39, 4526.
- ◆ Li, Z.; Hillmyer, M.A.; Lodge, T.P. *Laterally Nanostructured Vesicles, Polygonal Bilayer Sheets, and Segmented Wormlike Micelles*. Nano Letters, **2006**, 6, 124.
- ◆ Bang, J.; Jain, S.; Li, Z.; Lodge, T.P.; Pedersen, J.S.; Kesselman, E.; Talmon, Y. *Sphere, Cylinder, and Vesicle Nano-Aggregates in Poly(styrene-*b*-isoprene Diblock Copolymer Solutions*. Macromolecules, **2006**, 39, 1199
- ◆ Abbas, S.; Lodge, T.P. *Superlattice Formation in a Binary Mixture of Block Copolymer Micelles*. Phys. Rev. Lett., **2006**, 97, 097803.