

- Perfluoropolymer synthesis, characterization, and formulation
 - Morphology control through polymerization and compounding
 - Fluoropolymer alloys and blends with enhanced performance attributes
- Fluoropolymer nanocomposites
 - Particle selection
 - Mechanisms to improve particle/matrix adhesion
- Rheological modification and control in fluoropolymers
- Fluoropolymer systems for enhanced adhesion
- Mechanisms and suppression of extrusion melt fracture
 - Organic and inorganic flow aids
 - Polymer architectures for improved extrusion
- Tribology and formulation of ultra-low wear polymer systems
- Polymer/polymer mixing mechanisms
 - Evolution of morphology
 - Process development
- Polymer extrusion and compounding
- Polymer structure/property/process relationships

