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### Research Interests

-Polymer physics; biodegradable and bioresourceful/green polymers, morphology; crystallization.  
-Polymer blends; miscibility; phase separation; structure-property characterization,  
-Polymers for nanocomposites; spectroscopic, thermal analysis, and microscopic characterizations; structure-property.

### Representative Publications

1. **E. M. Woo\***, Y. S. Sun, and C. P. Yang, "Polymorphism, Thermal Behavior, and Crystal Stability in Syndiotactic Polystyrene vs. its Miscible Blends", **Progress in Polymer Science**, 26, 945-983 (2001). (Review article) (SCI/i.f.: 24.100)

2. **E. M. Woo\***, T. K. Mandal, and L. L. Chang "Window of Acrylonitrile Content for Miscibility in Blends Comprising Poly(styrene-co-acrylonitrile)'s and Poly(benzyl methacrylate)", **Macromolecules**, 33, 4186-4192 (2000). (SCI/i.f.: 5.167.)

3. K. C. Yen, **E. M. Woo\***, and K. Tashiro\*, "Microscopic Fourier-Transformed Infrared Characterization on Multiple Types of

Spherulites with Polymorphic Crystals in Poly(heptamethylene terephthalate), **Macromol. Rapid Commun.**, 31, 1343-1347 (2010). [cover page] (SCI/i.f.: 4.463).

4. L. Chang and **E. M. Woo\***, "Tacticity Effects on Glass Transition and Phase Behavior in Binary Blends of Poly(methyl methacrylate)s of Three Different Configurations", **Polymer Chemistry**, 1, 198-202 (2010). (SCI/i.f.=5.321).

5. **E. M. Woo\***, L. Y. Wang, and S. Nurkhamidah, "Crystal Lamellae of Opposite Orientations by Three-Dimensional Dissecting onto Spherulites of Poly(ethylene adipate) Crystallized in Bulk Form", **Macromolecules**, 45, 1375-1383 (2012). (SCI/i.f.: 5.167)

6. L. L. Chang and **E. M. Woo\***, "Prediction and Experimental Verification on Blend Phase Diagrams of Two Structurally Isomeric Polymers: Poly(4-methyl styrene) and Poly( $\alpha$ -methyl styrene)", **Macromolecules**, 33, 6892-6895 (2000). (SCI/i.f.: 4.539)

