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Field-flow fractionation of amphiphilic block copolymers

The high demand for new materials with improved performance and tailored properties is one of the major driving forces behind the development of new and complex synthetic polymers. However, current analytical techniques are not well suited to analyse these new materials and to address this need. Thermal field-flow fractionation (ThFFF) has gained significant attention as an analytical tool to analyse complex materials. This study demonstrates that ThFFF exhibits greater sensitivity towards polymer chemical composition and microstructure than current techniques and that it is the only technique that can determine several important properties of polymer nanostructures from a single analysis.

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