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JGP Seminar

Chem&ChemEn

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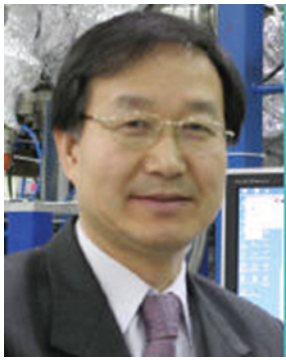

"Self-Assembly Characteristics of Novel Polymer Systems"

Abstract

A series of novel polymer systems have been developed via molecular designs and well-controlled syntheses: (i) well-defined functional brush polymers (comblike polymers), (ii) well-defined brush random copolymers and diblock copolymers, (iii) miktoarm star polymers, and (iv) asymmetric ring polymers. Self-assembly characteristics of these novel polymers were investigated in nanoscale thin films as well as in solutions by using synchrotron grazing incidence X-ray scattering, solution X-ray scattering and X-ray reflectivity. These analyses provided structural details of self-assemblies. The self-assembled structures and characteristics will be discussed in aspects of the chemical structures and the conformation and chemical and physical nature of polymer chains.

Date: Jan. 25 (Mon.), 2016

Time: 4:30pm – 6:00pm

Place: A2-304, Katsura Campus

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