



Figure 8.11 Preferential orientation of acetaminophen (ACM) crystals nucleated on PDMS, PnBMA and PS membranes. In ACM molecular structures: [o: hydrogen, ●: oxygen, ●: nitrogen, ●: carbon]. Reprinted with permission from ref. 47, Copyright 2014 American Chemical Society.

form I crystals along $\{001\}$ with hydroxyl groups of ACM oriented towards the polymeric surface. The major reflection at 15.0° is related to the preferential growth of form II crystals along the plane (111) with hydroxyl groups of ACM obliquely oriented towards the substrate. Interfacial interactions are likely to involve both imide functionality and carbonyl groups in polyimide.

8.7 Continuous Membrane Crystallization Processes

A typical configuration of a Membrane Crystallizer is illustrated in Figure 8.13.