## 연속적인 CHA 유형 제올라이트 분리막 합성 (On the synthesis of continuous CHA type zeolite membrane)

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Among 8–MR zeolites, all silica CHA (Si–CHA) zeolites are suitable for separating CO2 from N2 or CH4 through their molecular sieving property. If these materials can be made as continuous membranes, they can separate CO2 from N2 or CH4 via molecular sieving, even possibly in the presence of H2O primarily due to the hydrophobicity. For membrane fabrication, the secondary growth method was adopted: a seed layer, comprised of zeolite particles or blocks, is first formed and its subsequent growth allows the formation of a continuous zeolite membrane. In this presentation, we will give the main idea of how to make Si–CHA membranes. In addition, their CO2/N2 separation performance will be discussed in detail.