

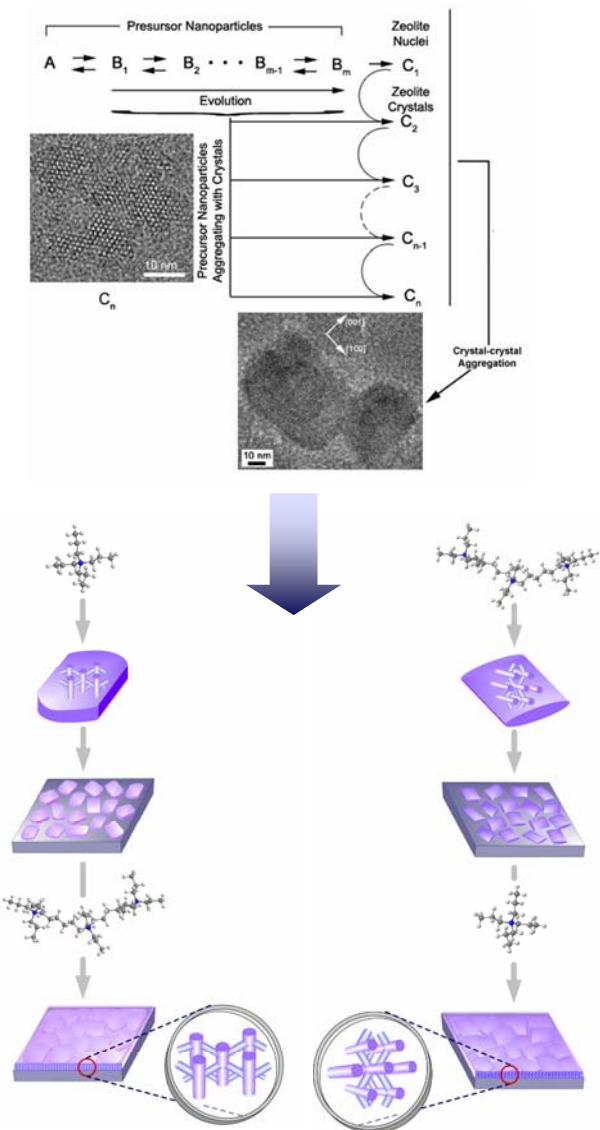
# Hierarchical Nano-Manufacturing of Zeolite Membranes

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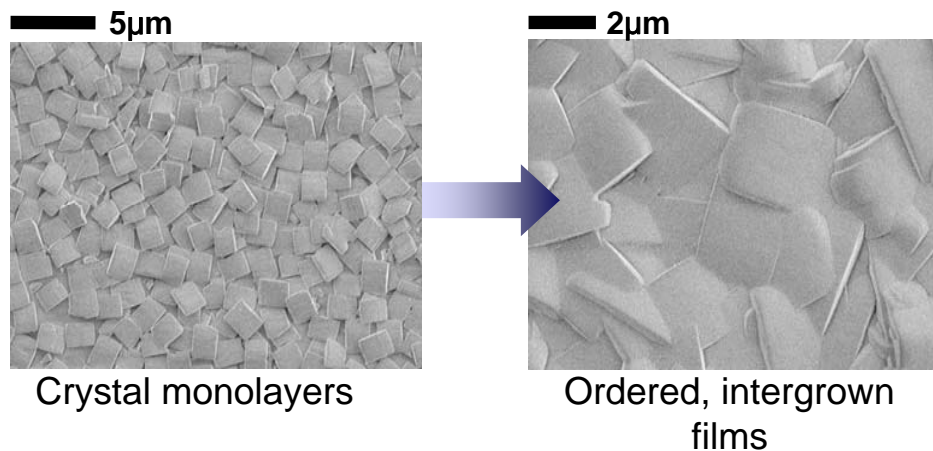
Zeolite nucleation & growth

Hierarchical nano-manufacturing



- Achieving hierarchical control of zeolite film microstructure

- ◆ Molecular crystal engineering
- ◆ Assembly of crystal monolayers
- ◆ Growth of ordered films with controlled microstructure



- Publications

- ◆ Choi, Jungkyu; Ghosh, Shubhajit; Lai, Zhiping; Tsapatsis, Michael, *Angewandte Chemie, International Edition* (2006), 45(7), 1154-1158.
- ◆ Snyder, Mark; Tsapatsis M., *Angewandte Chemie, International Edition* (2007), In press.