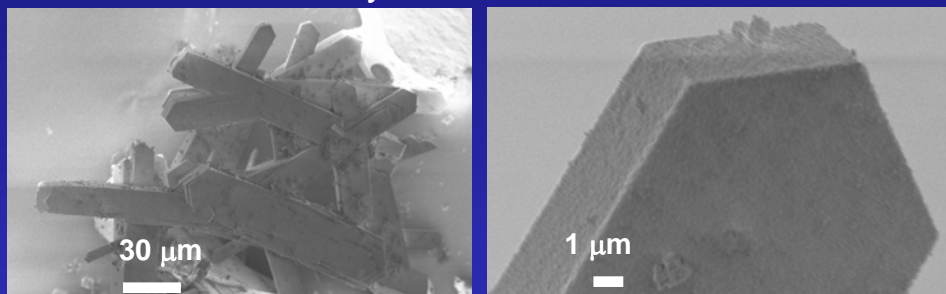


Large Anisotropic Zeolite Crystals with Controllable Morphology via Microemulsion Mediated Growth

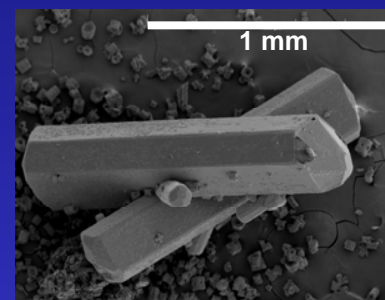
Daniel F. Shantz, Department of Chemical Engineering, Texas A&M University

The current work explores synthesizing large ($> 50 \mu\text{m}$) zeolite crystals of controllable morphology by using zeolite syntheses with low solubility silica sources (BMD) in the presence of emulsions.

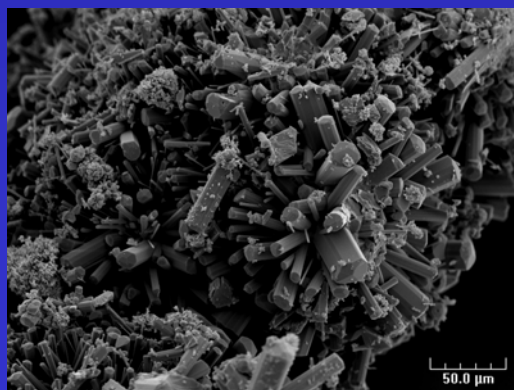
Silicalite-1 BMD syntheses in cationic emulsions



Silicalite-1 BMD syntheses in anionic emulsions



Cancrinite BMD syntheses, no emulsion



Cancrinite BMD syntheses, cationic emulsion

