

# Hydrothermal Synthesis of Zeolite with Three Dimensionally Ordered Mesoporous-imprinted (3DOm-i) Structure

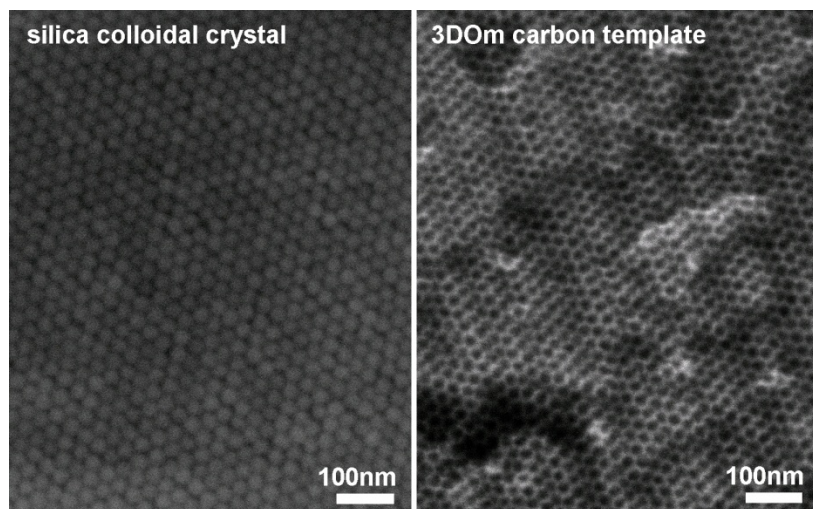
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NNIN Facility utilized: Characterization Facility

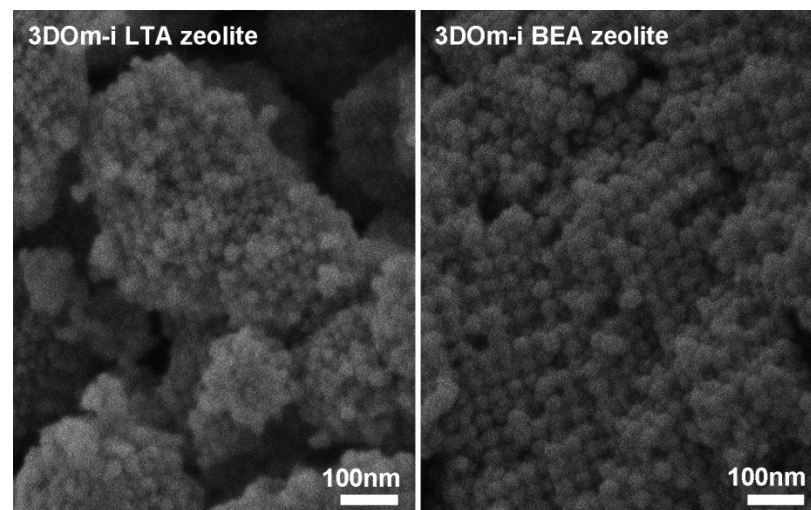
## DESCRIPTION OF WORK

- ◆ confined synthesis of zeolite within 3-dimensionally ordered mesoporous (3DOm) carbon template
- ◆ hierarchical zeolite catalysts of 3DOm-i LTA and 3DOm-i BEA



## MAJOR OBSERVATIONS

- ◆ packing structure of silica colloidal crystal
- ◆ morphology and mesopore structure of 3DOm carbon template



## MAJOR OBSERVATIONS

- ◆ morphology of 3DOm-i LTA zeolite
- ◆ morphology of 3DOm-i BEA zeolite