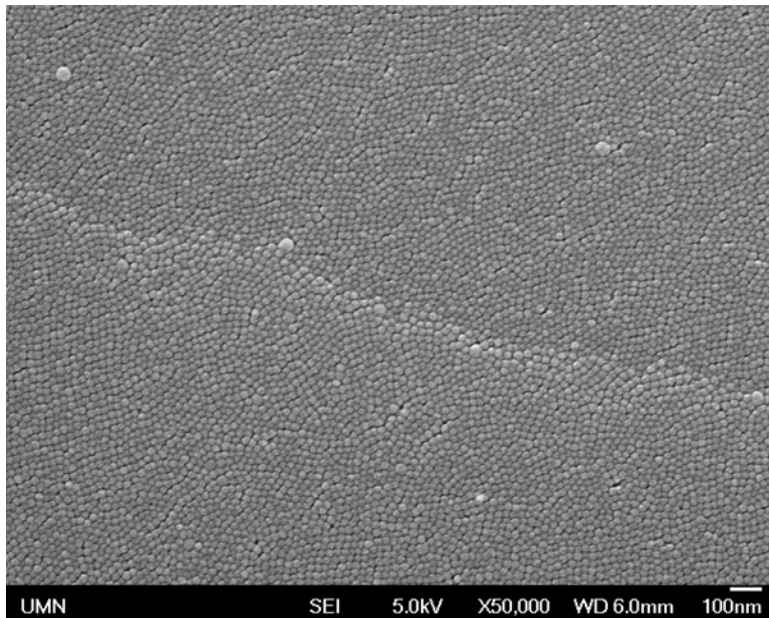


Ordered Colloidal Coatings by Convective Assembly

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NNIN Facilities utilized: Characterization Facility & Nanofabrication Center

- Objective: Control of Coating Morphology

- ◆ Film Thickness
- ◆ Long-Range Order
- ◆ Defect Density



- Topographically-Patterned Films Observed

- ◆ Film thickness on order of μm
- ◆ Feature separation on order of $100\ \mu\text{m}$



- Related Publication

Mechanistic Principles of Colloidal Crystal Growth by Evaporation-Induced Convective Steering. *Langmuir* 2008 24 (23) 13683–13693