Electrical Transport Through Films of Nanocrystals

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NNIN Facility utilized: Nanofabrication Center

- **DESCRIPTION OF WORK**
  - Electrical conduction in films of semiconductor nanocrystals (NCs) not understood
  - Critical for many devices
  - Used field effect transistors to study fundamentals of electrical transport in lead selenide NCs

- **MAJOR OBSERVATIONS**
  - Saw unexpected changes when NCs exposed to N₂
  - Studied dependence of electrical transport on size of nanocrystals – critical information for understanding transport process

- **Publications**