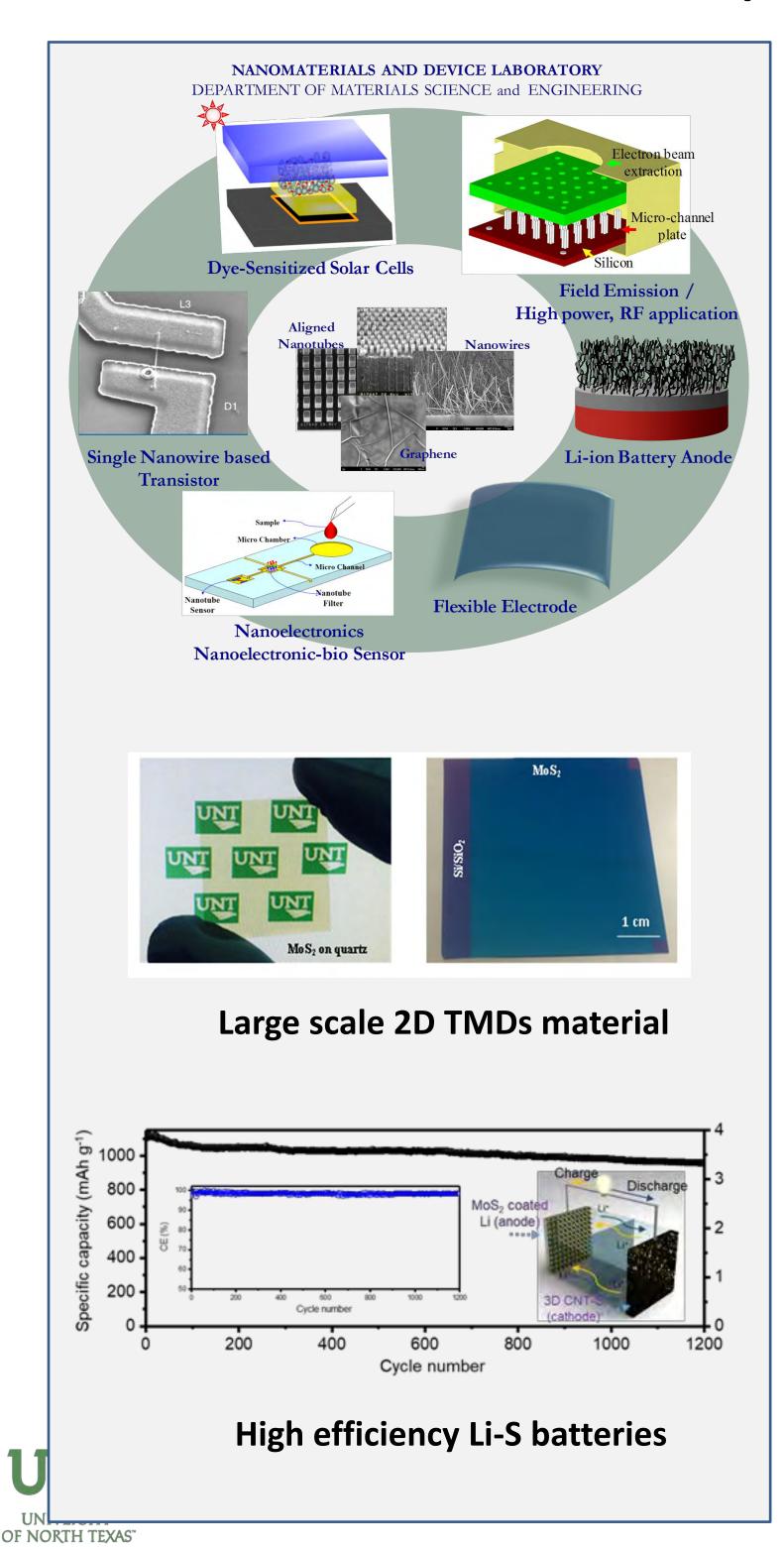
Nanomaterials and Device Laboratory

Director: Professor Wonbong Choi, MRS Fellow Associate Director of AMMPI, Department of Materials Science and Engineering



Research Areas

- Nanomaterials synthesis and charcaterization: Carbon nanotubes, graphene, 2D transition metal dichalcogenides (TMDs) and alloys
- Rechargeable Batteries: Electrode materials, Li-S battery, metal-air batteries, flexible batteries.
- Advanced Electronics Neuromorphic memory based on 2D TMDs, Piezoelectric materials and sensors

Major Equipment

- Low Pressure Chemical Vapor Deposition (CVD) systems
- Graphene Thermal CVD System: graphene and 2D materials synthesis
- Glove Box and equipment for battery fabrication
- Battery Testers (MACCOR, Arbin); CV, EIS
- Nano-Scopic Thermal Imaging System + Atomic Force Microscopy
- Probe station to measure electrical properties of various devices
- In-situ Raman and electro-chemical cell tester
- Micro/nano fabrication & characterization









