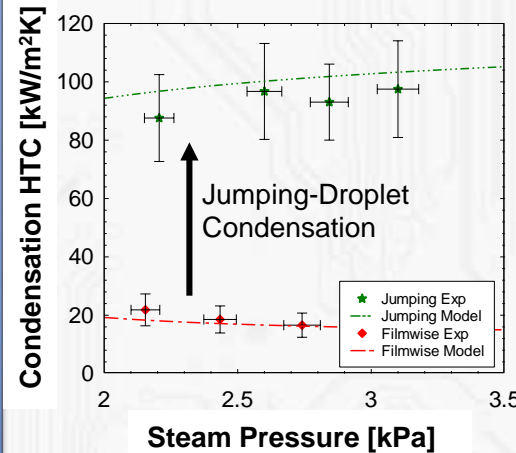


- Phase change heat transfer and fluid dynamics for energy and thermal management applications
- Interfacial nanoengineering for enhanced heat transfer
- Experiments and Simulation



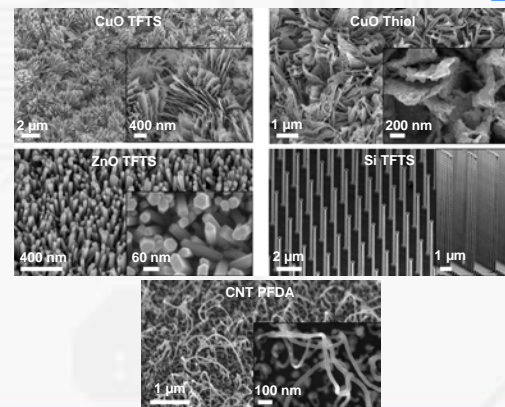
Heat Transfer Measurements & Modeling



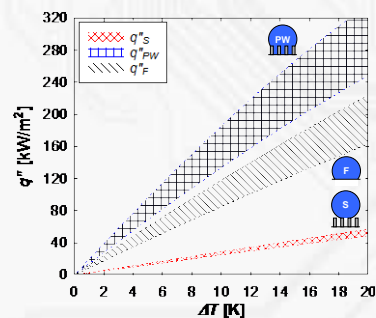
Vacuum System Fabrication and Two-Phase Heat Transfer Measurements

<http://etrl.mechanical.illinois.edu>

Surface Fabrication

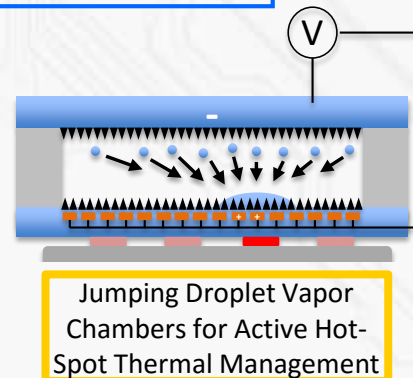


Theory and Experiment

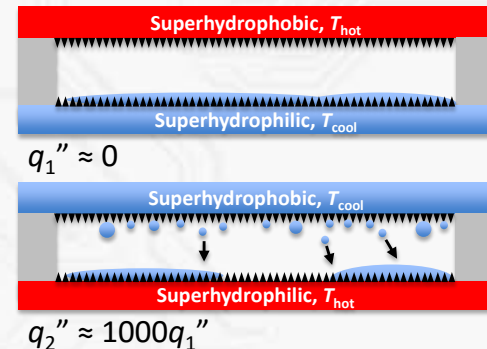


Structure Optimization

Device Building



Jumping Droplet Vapor Chambers for Active Hot-Spot Thermal Management



Jumping Droplet Thermal Diodes