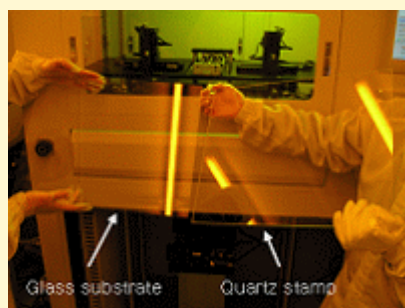


Staff: 9 researchers, 1 PhD student, 2 post-docs and 8 temporary staff

Research fields: Nanoscale patterning, nanomaterial synthesis & applications

Research topics in Micro and NanoSystems

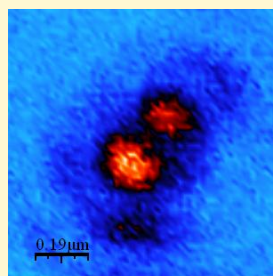
- Nanomaterial Chemical sensor
- Carbon Nanotube Transparent conductive film
- Carbon Nanotube Transparent Heater
- OLED illumination film with nanoscale pattern
- Nano Confocal microscope
- Mass producible Quantum Dot synthesis
- LCD lithography using nanoimprint
- Separation of carbon nanotube's chirality



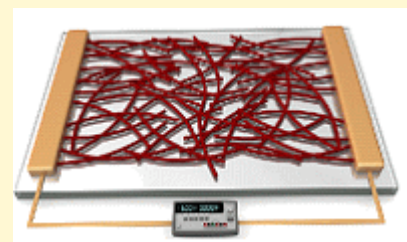
Large scale imprint



Type I Quantum Dot



High resolution Confocal Image



Transparent CNT Heater

Technology

- Nanoscale stamp fabrication
- Large scale Nanoimprint patterning
- Resist solution for imprinting
- Nanowire, Quantum Dot synthesis
- Carbon nanotube dispersion, separation
- Nanomaterial inkjet printing
- NSOM/Confocal Microscope

Design, simulation & characterization tools

- FEMLAB
- Individual nanomaterial assembly equipment
- Field Emission SEM
- Raman Spectroscopy
- Absorption spectroscopy
- Probe station
- Photo Luminescence spectroscopy