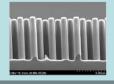


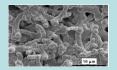


Ono Toan Laboratory / Toda Laboratory





Nano-optical structure



CNT-Cu composite



Micro assembling

Integration /Micro-fabrication Nano-/Micro-fabrication **LSI Integration**

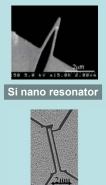
Material /Device

CNT, Graphene, Diamond, VOx, Piezo-electric material

Nanotechnology

Nano-science Nano-mechanics **Nano-optonics** Nano-electronics

Design, Fabrication, Measurement







Thermal device

Nano-science

- Extreme sensor
- Nano-probe

Challenge & Idea for Nature

Bio/Healthcare

- Thermal biosensor
- Photo-acoustic sensing

Medical Diagnosis Applications

Electronics

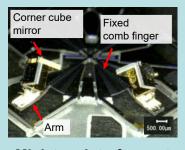
- Nano-mechanical computer
- Nano-mechanical resonator
- Optical element

Inovation for the **Next Generation**

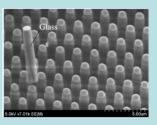
Energy/ Environmental sensing

- Environmental gas sensing
- Thermo-electronic power generator

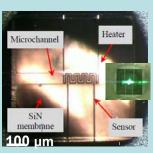
Global Demand for Environmental Technologies



Miniature Interferometer for FT-IR



Glass micro-machining

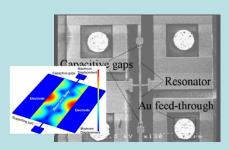


Calorimetry device for protein sensor

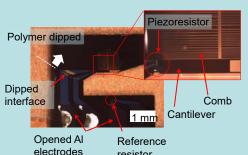


Graphene-Nickel composite device



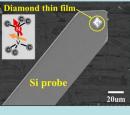


Si resonator timing device

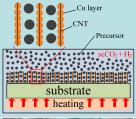


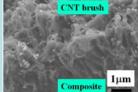
Polymer dipped piezoresistive gas sensor for IoT device

resistor

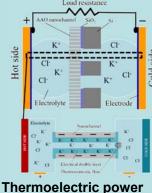


Diamond Probe with NV Center

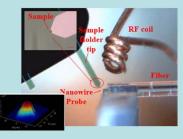




Nano-carbon Composite



battery



Magnetic resonance force microscopy (MRFM)



Assembled 3D scanner for LT measurement