

Optical Cavity for Photoacoustic Imaging

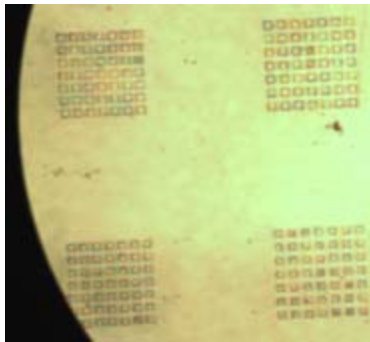
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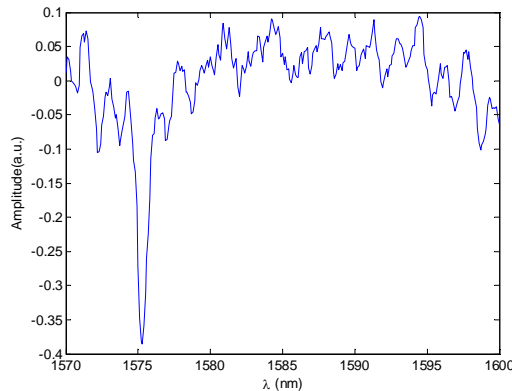
NNIN Facility utilized: Nanofabrication Center

DESCRIPTION OF WORK

- ◆ Using Optical Cavity as an Ultrasound Sensor
- ◆ Make a Tiny Tool for the Photoacoustic Intravascular Endoscopy



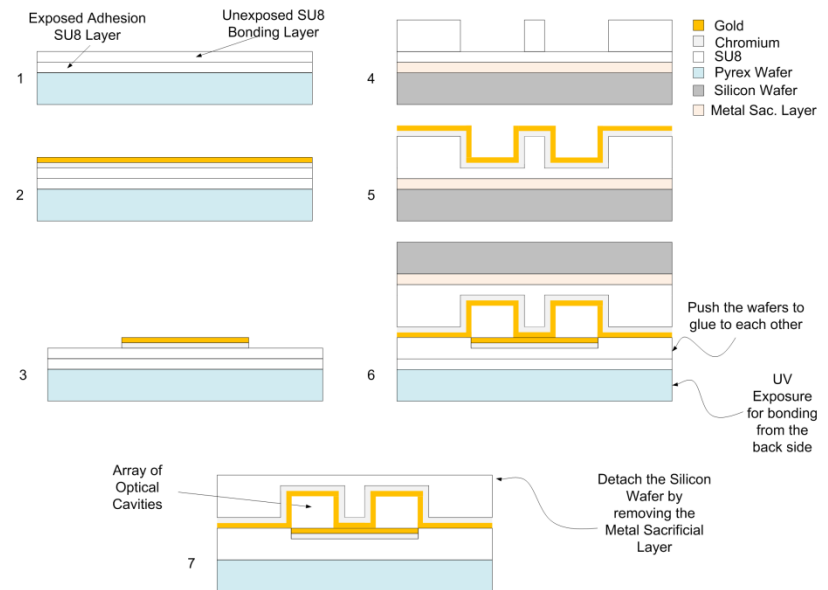
Fabricated Cavities



Optical Resonance Wavelength

MAJOR OBSERVATIONS

- ◆ Improvement in Optical Properties with respect to the Other Competitive Device for This Purpose
- ◆ Improvement of Sensitivity of the Ultrasound sensor



Fabrication Procedure