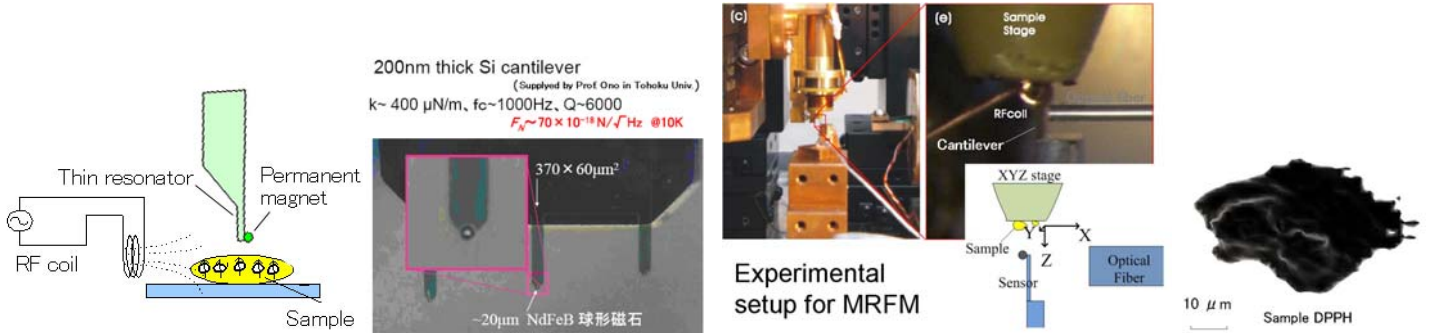
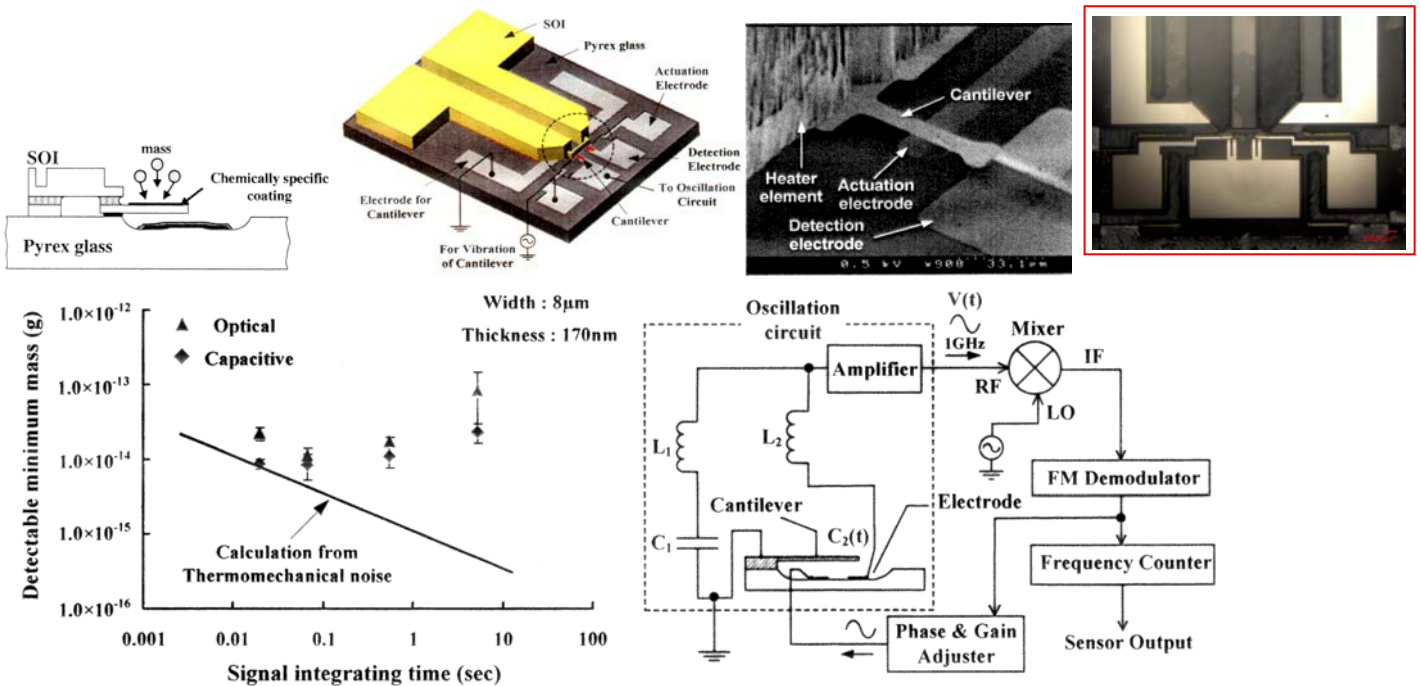


Highly Sensitive Sensors Using Thin Resonator



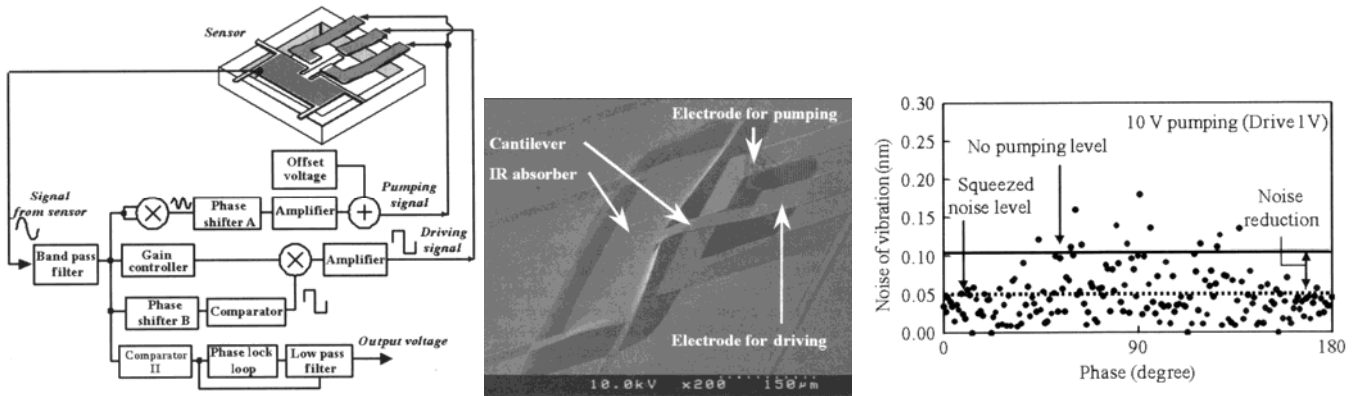
ESR (Electron Spin Resonance) imaging by MRFM (Magnetic Resonance Force Microscope) (JEOL – Tohoku Univ.)

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Capacitive detection of resonating cantilever mass sensor

Reference : S.-J.Kim, T.Ono and M.Esashi, Mass Detection Using Capacitive Resonant Silicon Resonator Employing LC Resonant Circuit Technique, Rev. of Sci. Instru., 78 (2007) 085103(6)



Reduction of thermal fluctuation of resonant frequency by parametric noise squeezing

Reference : T.Ono, H.Wakamatsu and M.Esashi, Parametrically Amplified Thermal Resonant Sensor with Pseudo-Cooling Effect, J.of Micromech. Microeng., 15 (2005) pp.2282–2288