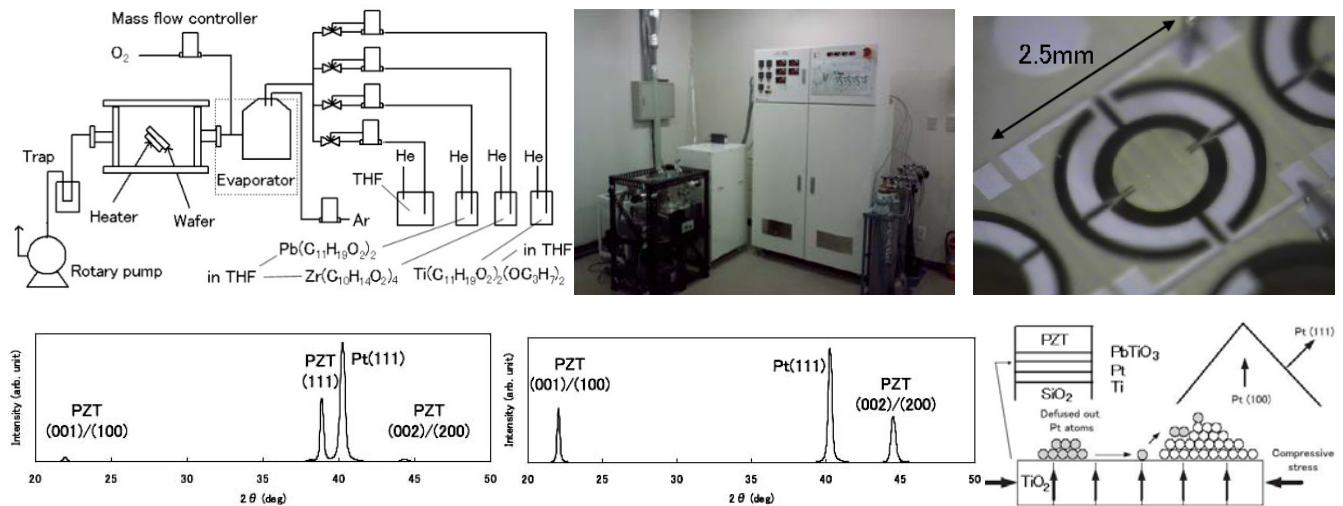
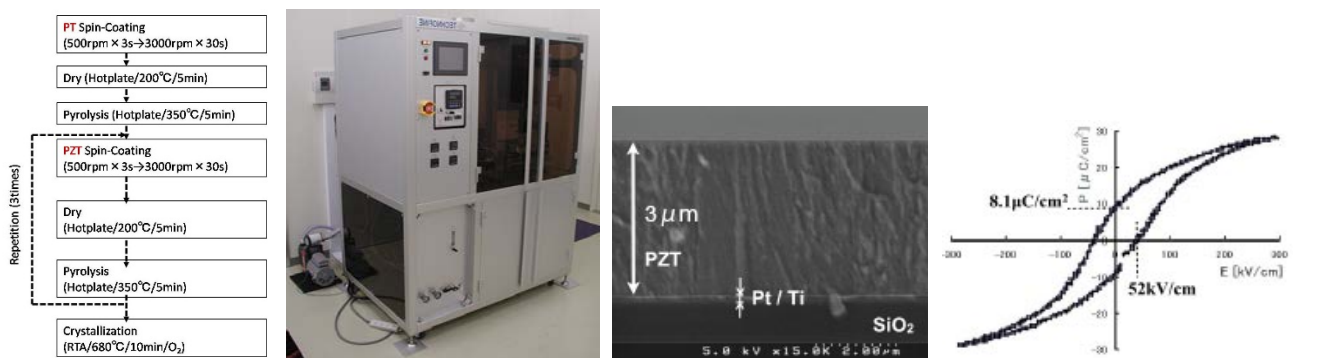


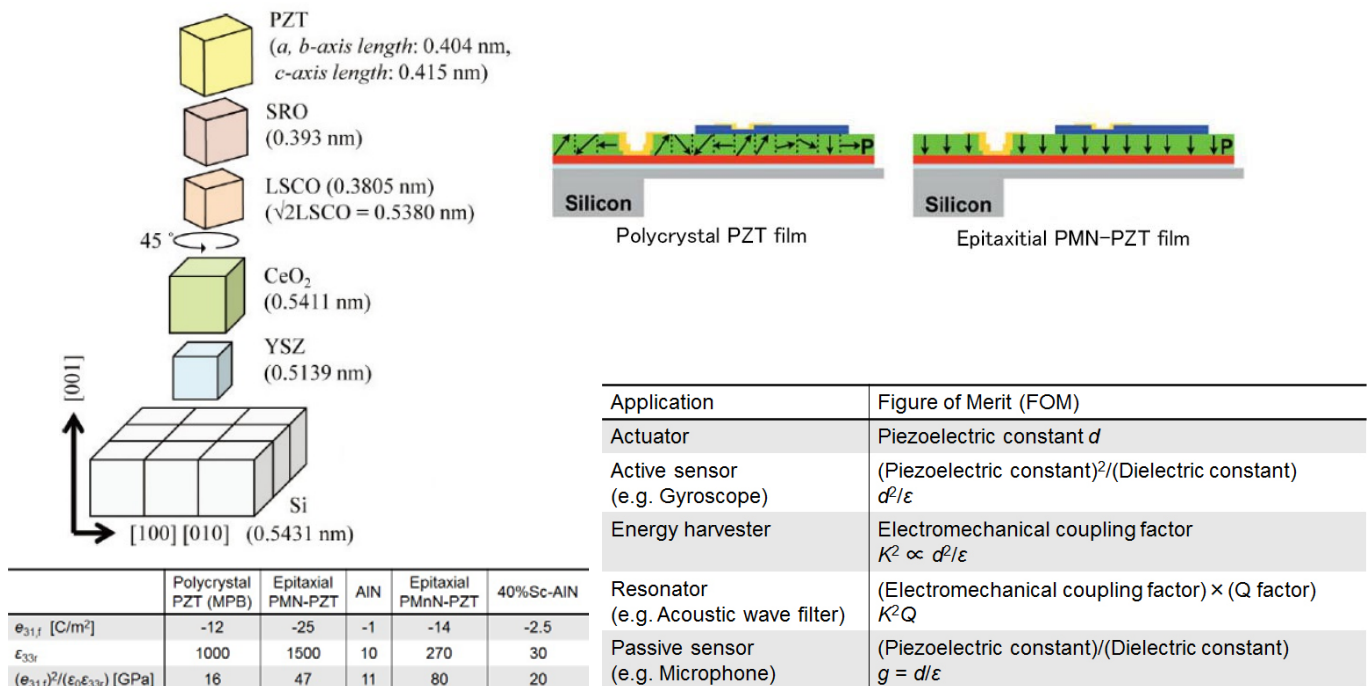
7 PZT thin films for MEMS



PZT thin film by MOCVD (H.Matsuo, Y.Kawai, S.Tanaka and M.Esashi, Jap. J. Appl. Phys, 49 (2010) 061503)



PZT thin film by sol-gel method (Y.Kawai, N.Moriwaki, M.Esashi and T.Ono, Proc. of the 27th Sensor Symp. (2010) 21)



Epitaxial PZT thin film with buffered layer by sputter deposition (S.Yoshida, et.al., IEEE Trans. on Ultrasonics, Ferroelectrics and Frequency Control, 61, 9 (2014) 1552)