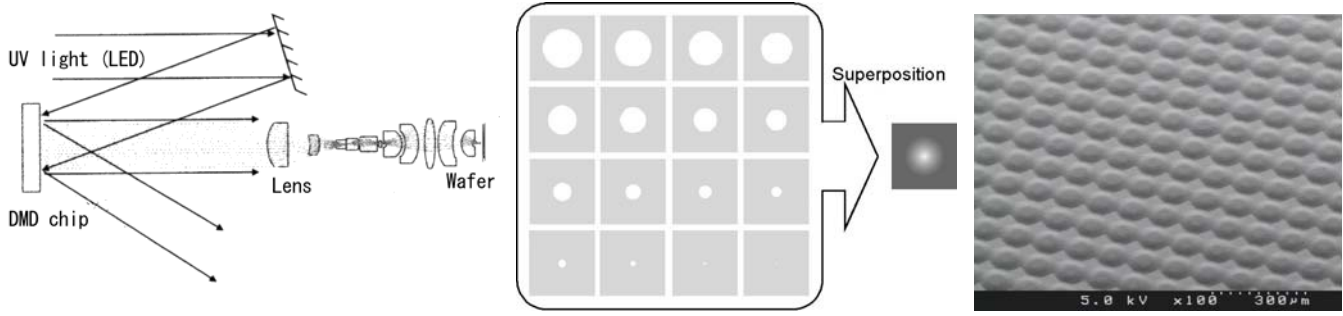
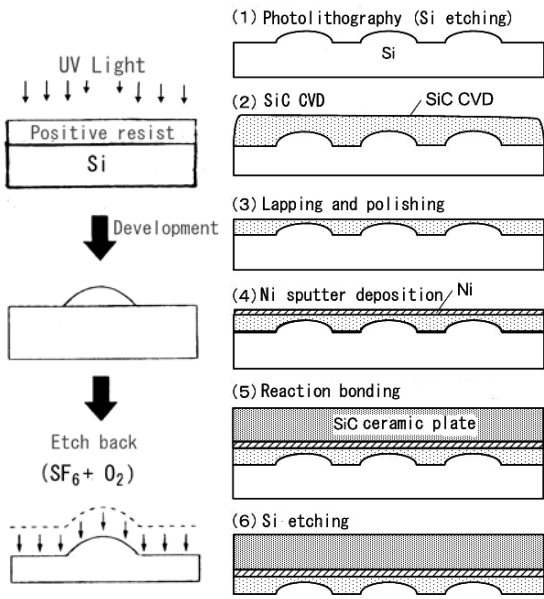


Silicon Carbide (SiC) Mold for Glass Press-molding

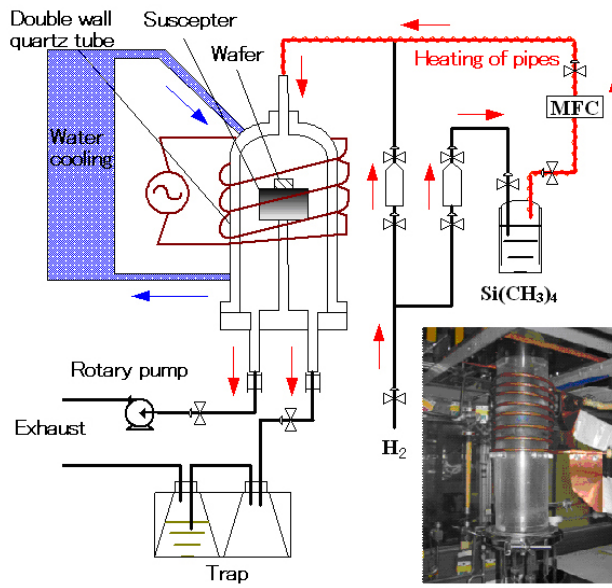


Forming of non-spherical lens shape by multiple maskless exposure using DMD

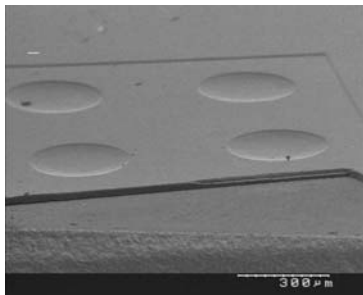
Reference : K.Totsu, K.Fujishiro, S.Tanaka and M.Esashi, Fabrication of Three-dimensional Microstructure Using Maskless Gray-scale Lithography, Sensors and Actuators A, 131 (2006) pp.387-392



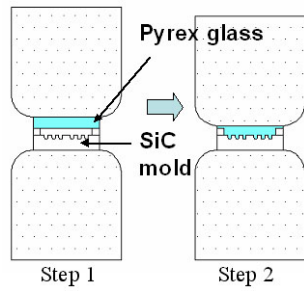
Fabrication of SiC mold



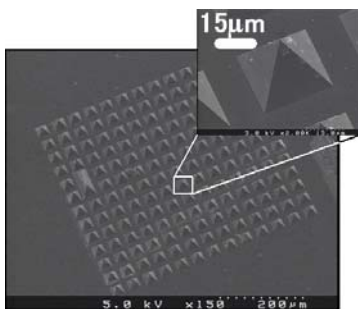
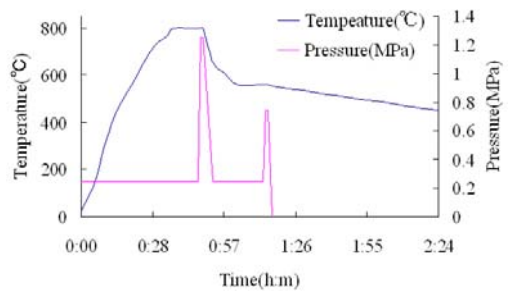
SiC CVD system



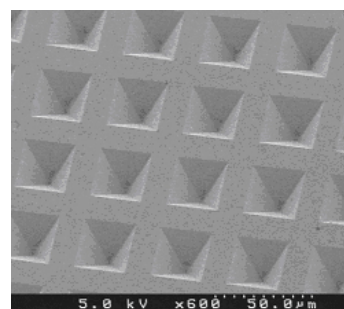
SiC mold



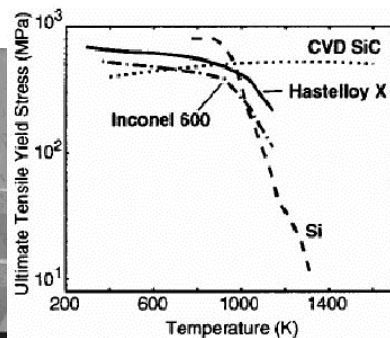
Glass press-molding



SiC mold (after 4 time use)



Pyrex glass formed by molding



Mechanical property of SiC at high temperature



Glass press-molding using SiC mold

(A.H.Epstein, J. of Eng. for Gas Turbines and Power, 126, (2004) 205)

Reference : K.-O. Min, S.Tanaka and M.Esashi, Glass Press Mold Fabricated by SiC APCVD, SiC-SiC Bonding and Silicon Lost Molding, Proceedings of the 21th Sensor Symposium (2004) pp.473-478