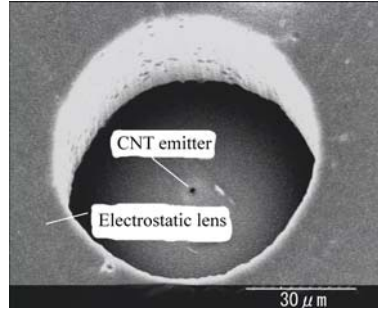
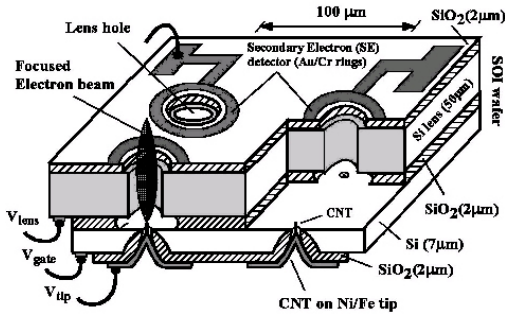
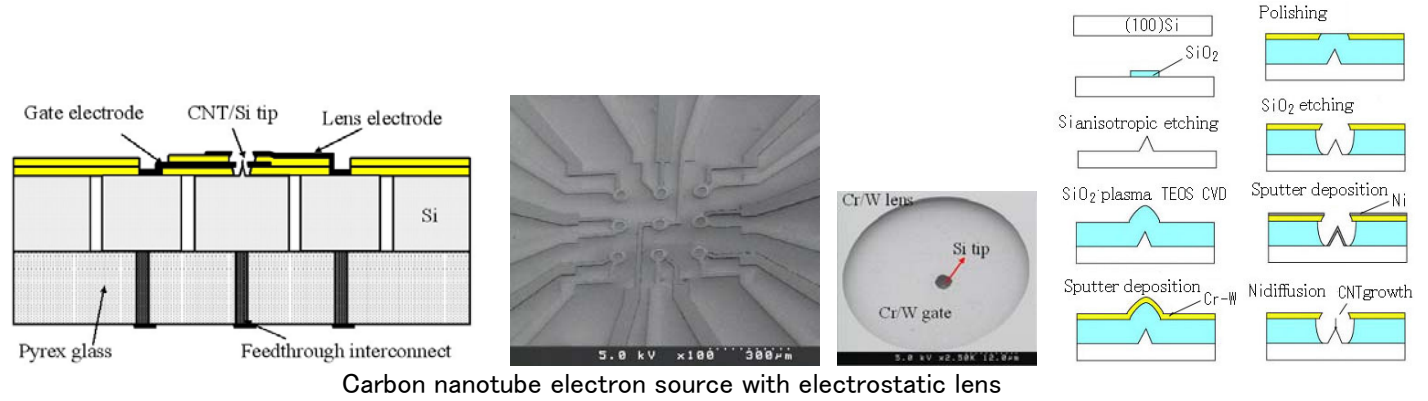


Electron Source



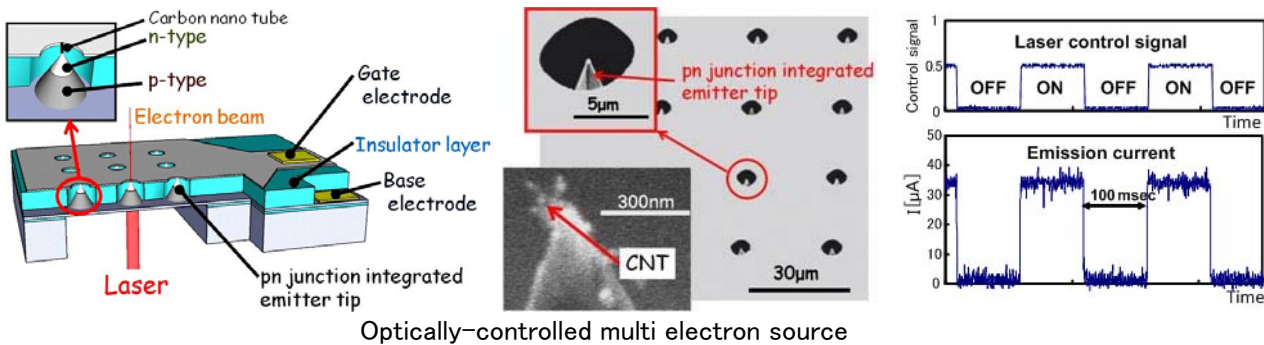
Carbon nanotube electron source

Reference : P.N.Minh, L.T.T.Tuyen, T.Ono, H.Mimura, K.Yokoo and M.Esashi, Carbon Nanotube on a Si Tip for Electron Field Emitter, Jpn. J. Appl. Phys., 41 Part2 (2002) pp.L1409–L1411



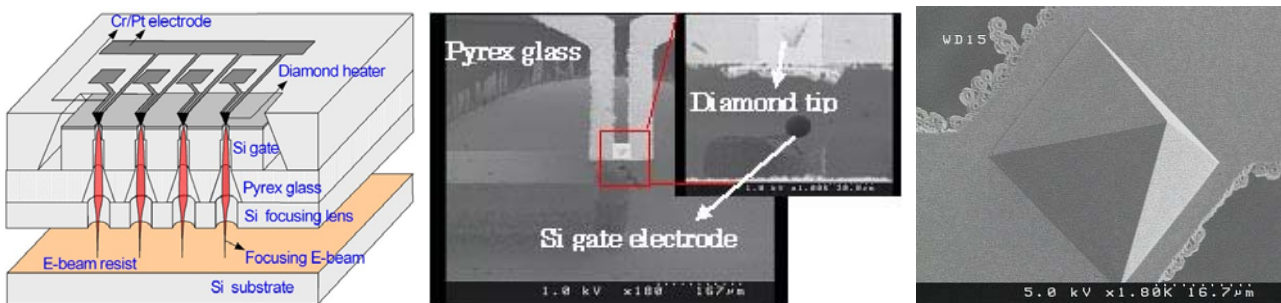
Carbon nanotube electron source with electrostatic lens

Reference : J.Ho, T.Ono, C.-H Tsai and M.Esashi, Photolithographic Fabrication of Gated Self-aligned Parallel Electron Beam Emitters with a Single-stranded Carbon Nanotube, Nanotechnology, 19 (2008) 365601(5pp)



Optically-controlled multi electron source

Reference : E.Tomono, H.Miyashita, T.Ono and M.Esashi, Optically-Controlled Multi Electron Source, The 5th Asia-Pacific Conference on Transducers and Micro-Nano Technology (APCOT 2010) (2010) pp.78–79



Diamond Schottky emitter

Reference : C.-H.Tsai, T.Ono and M.Esashi, Fabrication of Diamond Schottky Emitter Array by Using Electrophoresis Pre-treatment and Hot-filament Chemical Vapor Deposition, Diamond and Related Materials, 16 (2007) pp.1398–1402