

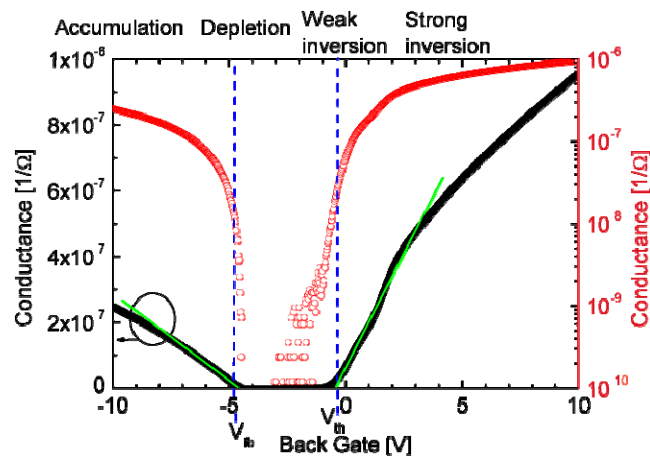
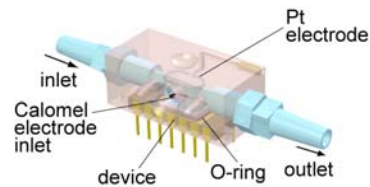
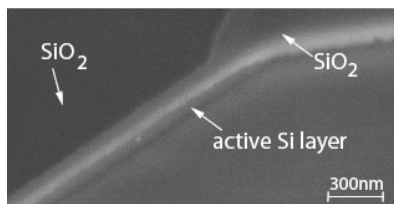


Silicon nanowires

Using lithographic techniques, you will prepare Silicon nanowires in SOI (silicon on insulator) wafers. The nanowires exhibit field-effect transistor properties which you will optimize. In the purpose of developing novel sensing devices. The nanowires will be tested and operated in a liquid environment using fluidic cells. First sensing tests aiming at monitoring pH dependence will be carried out. The project will develop strongly within a nano-tera project in collaboration with the Pharmacenter, ETHZ, EPFL and FHNW.

Context: NCCR Applied project and Nano-Tera. Industrial partner: Sensirion.

microfabricated Si nanowire



Info

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