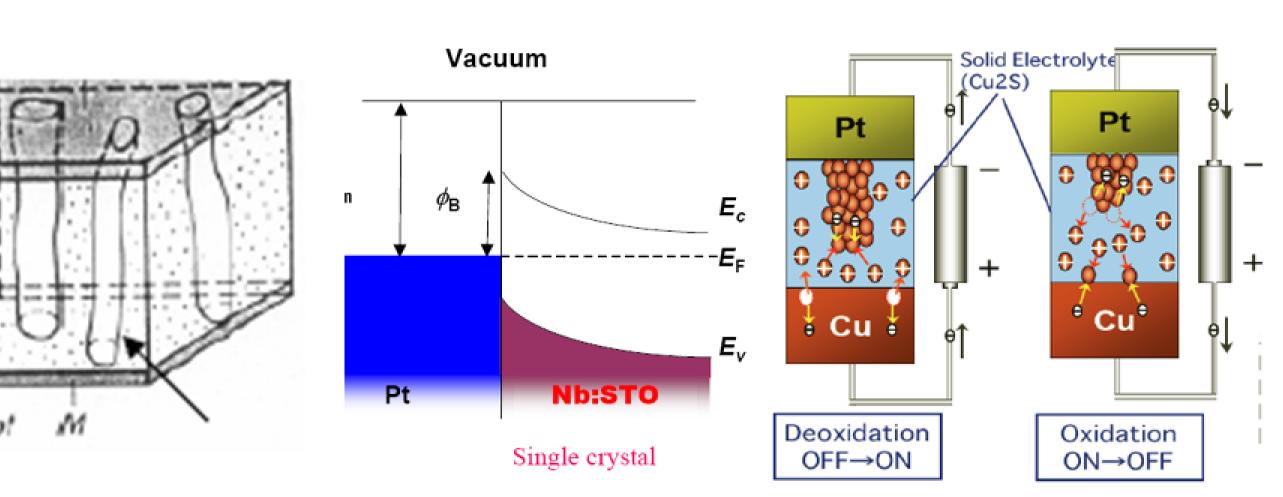
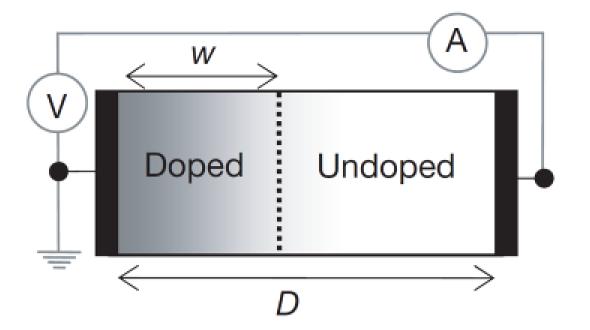


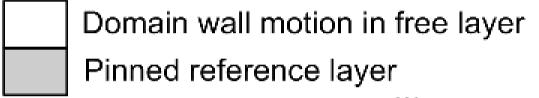
Magnetic RAM (MRAM)

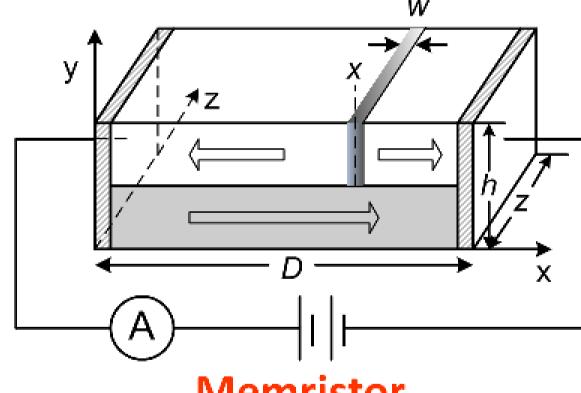


Resistive RAM (RRAM)

From left to right: Filament-based, Interface-based and PMC







Memristor

Top: thin-film device

Bottom: Spintronic material

Emerging Non-volatile Memory (NVM) Technologies