

Design of ferroelectric and multiferroic materials for non-volatile random access memory devices

Theme:

Synthesis and Characterization of Functional Materials for Capacitor and Memory Devices

Our group has been investigating the utilization of functional materials synthesized by adopting various routes like molten salt, sol-gel and solid state reaction methods to exploit it for multifarious device applications.

Group Lead:

Prof. B. Harihara Venkataraman

Group Members:

Dr. Rajesh Kannan (Alumni)

Mr. Jahangeer

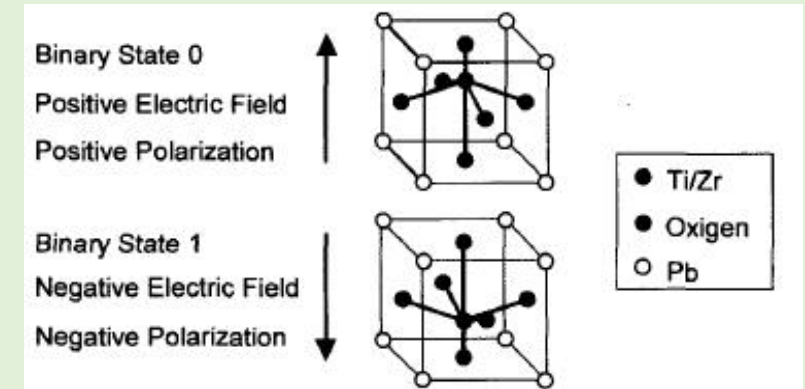
Mr. Waseem

Ms. Renuka

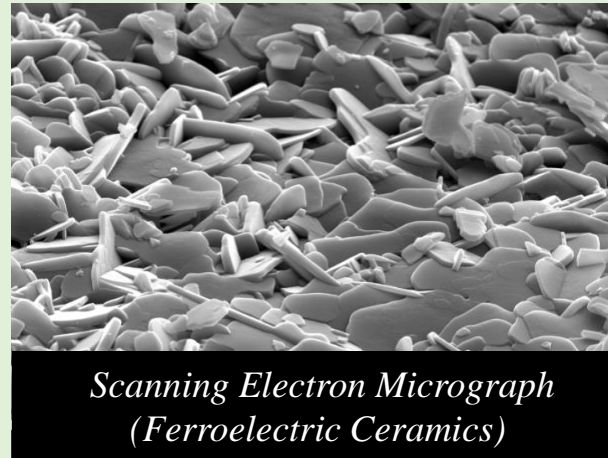
Ms. Priyanka



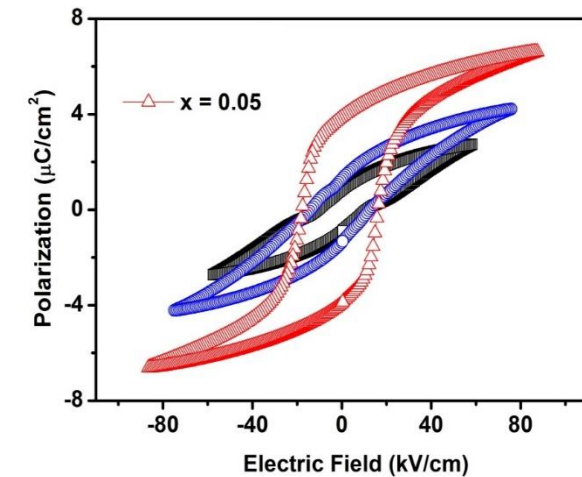
1C - 1T NVRAM Configuration



PZT Crystal Lattice



*Scanning Electron Micrograph
(Ferroelectric Ceramics)*



*Hysteresis Studies
(Ferroelectric Ceramics)*