

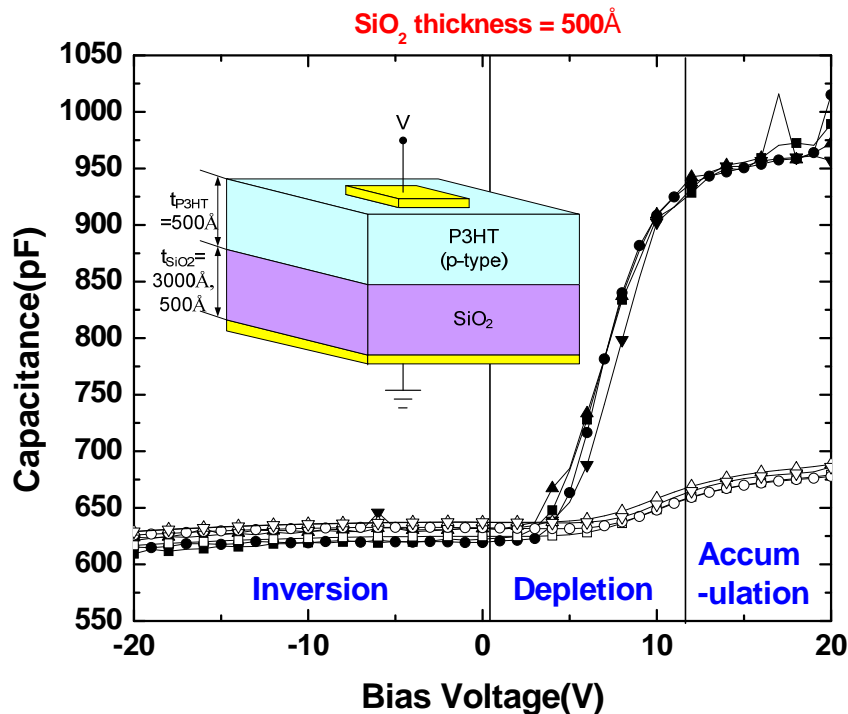
Conducting Polymer Material Characterization Using Planar Transmission Line Measurement

Rhonda R. Franklin (PI), Young Seek Cho

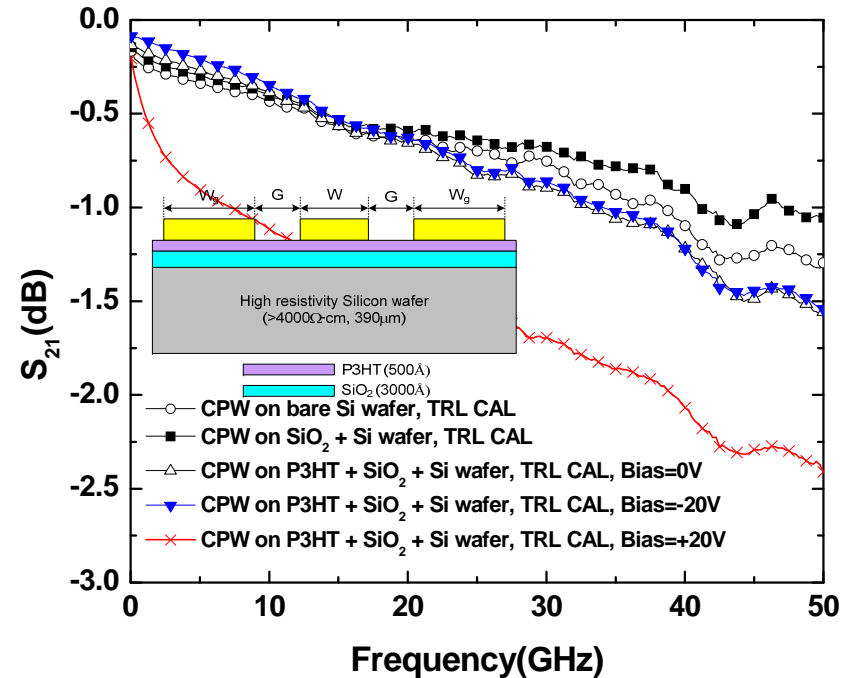
Electrical and Computer Engineering, University of Minnesota

NNIN Facility utilized: Nanofabrication Center

- Characterization of conducting polymer material, P3HT
 - ◆ DC analysis: MIS capacitor
 - ◆ High frequency analysis: CPW
- DC Analysis



- High frequency analysis



- MAJOR OBSERVATIONS

- ◆ ϵ_r , P3HT = 4.4 from DC analysis
- ◆ Conducting nature of P3HT is observed in high frequency analysis.

- Publications

- ◆ Presented at 2008 IEEE International Symposium on Antenna and Propagation and USNC/URSI National Radio Science Meeting