

Figure 1: Room temperature photoluminescence spectra of unirradiated and irradiated samples. The inset shows the visible PL spectra.

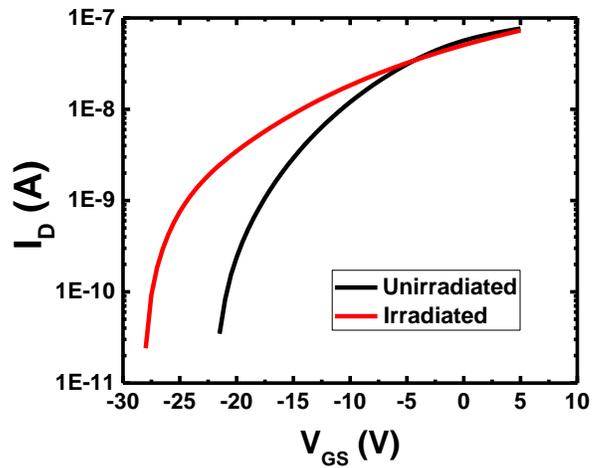


Figure 2: Transfer characteristics of unirradiated and irradiated samples extracted in the linear region ($V_{DS} = 0.1V$).

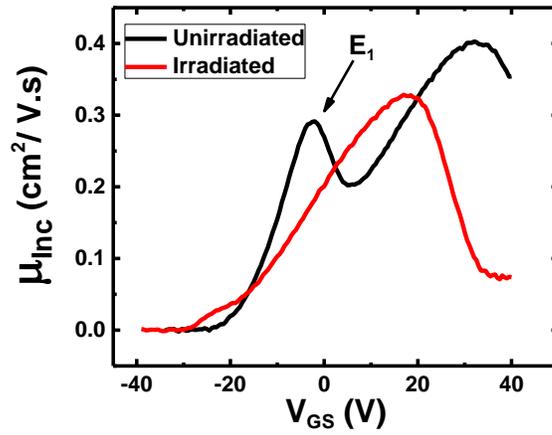


Figure 3: Incremental mobility variation with gate bias (V_{GS}).

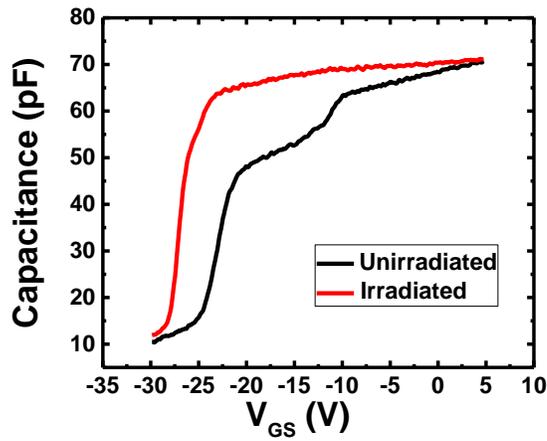


Figure 4: Low-frequency C-V curve of unirradiated and irradiated samples.

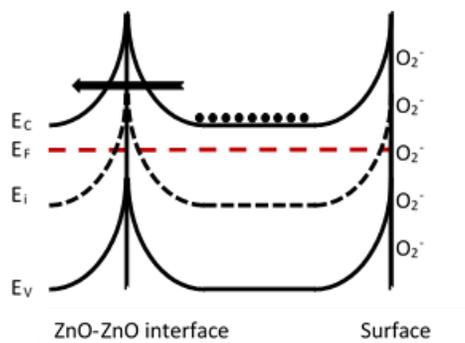


Figure 5: Schematic diagram of depletion region formation at the ZnO-ZnO interlayer interface.