## 3C-SiC 버퍼층위에 ZnO 박막 형성

이윤명, 정귀상 울산대학교

## Formation of ZnO ZnO thin films 3C-SiC buffer layer

Yun-Myung Lee and Gwiy-Sang Chung University of Ulsan

Abstract: Zinc oxide (ZnO) thin film was deposited on Si substrates using polycrystalline (poly) 3C-SiC buffer layer, in which the ZnO film was grown by sol-gel method. Physical characteristics of the grown ZnO film was investigated experimentally by means of SEM, XRD, FT-IR (Furier Transform-Infrared spectrum), and AFM. XRD pattern was proved that the grown ZnO film on 3C-SiC layers had highly (002) orientation with low FWHM (Full width of half maxium). These results showed that ZnO thin film grown on 3C-SiC buffer layers can be used for various piezoelectric fields and M/NEMS applications.

Key Words: ZnO thin film, 3C-SiC buffer layer, Sol-gel