

Schottky Barrier Tuning in Semiconducting ZnO and BaTiO₃ Hybrid Heterostructures Emerge Dielectric and Electrical Anisotropy

Radhamanohar Aepuru, Shivani Kankash and H.S. Panda*

Department of Materials Engineering, Defence Institute of Advanced Technology, Pune-411025, India.

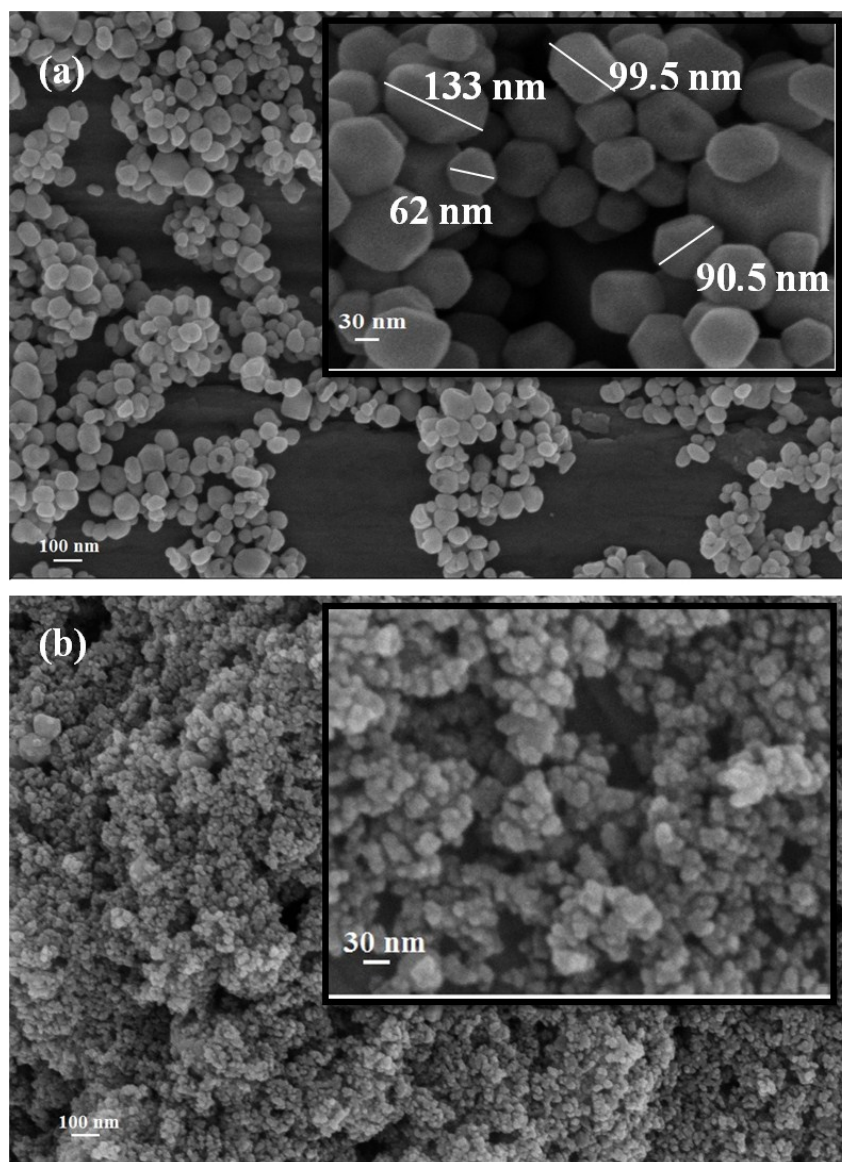


Figure S1: FESEM images of (a) BaTiO₃ and (b) modified BaTiO₃. Inset showing higher magnification images

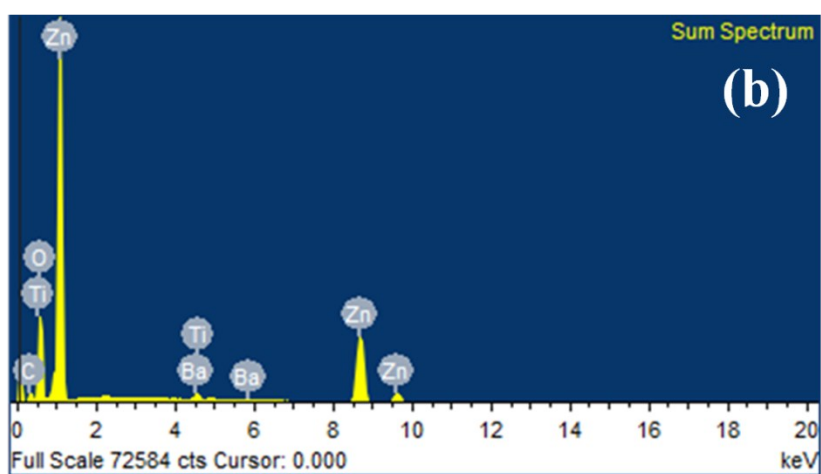
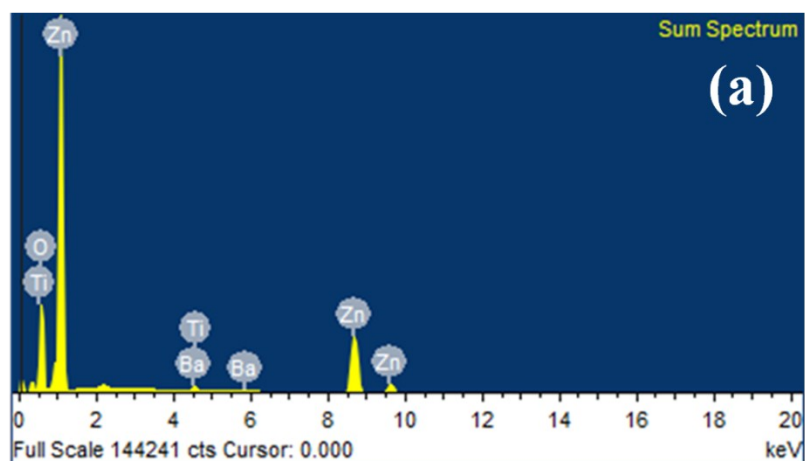


Figure S2. EDS spectra of (a) ZBT and (b) ZCBT

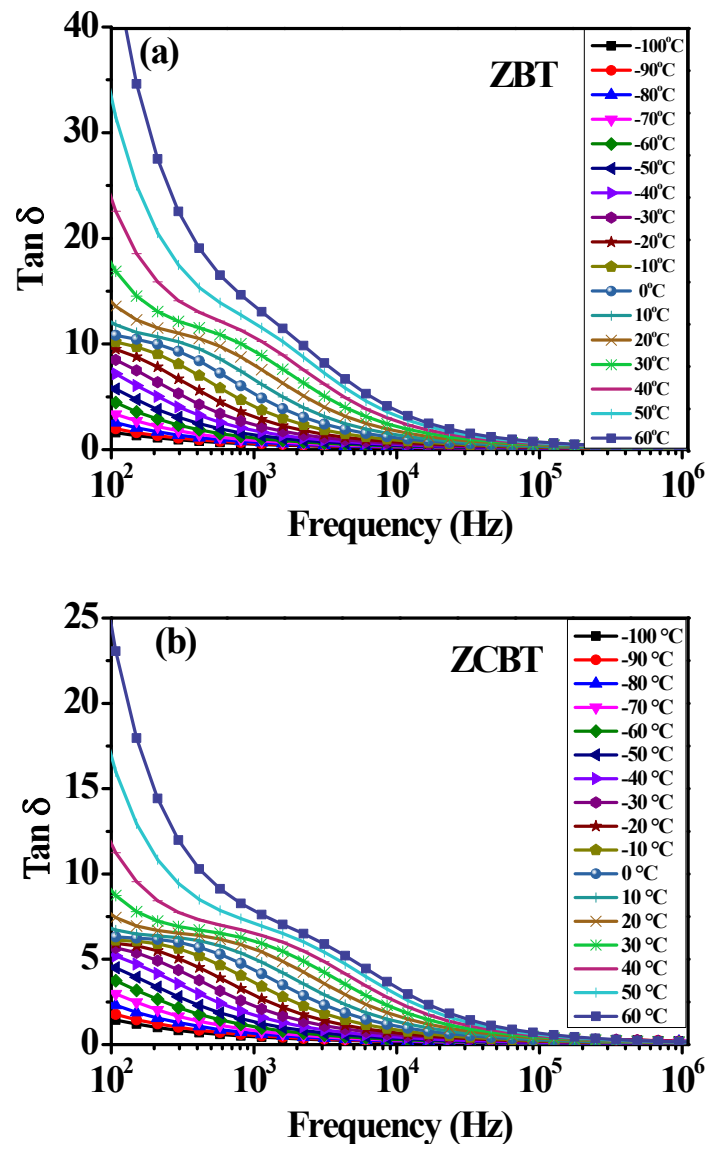


Figure S3. Dielectric loss tangent graph of the (a) ZBT and (b) ZCBT at various temperatures

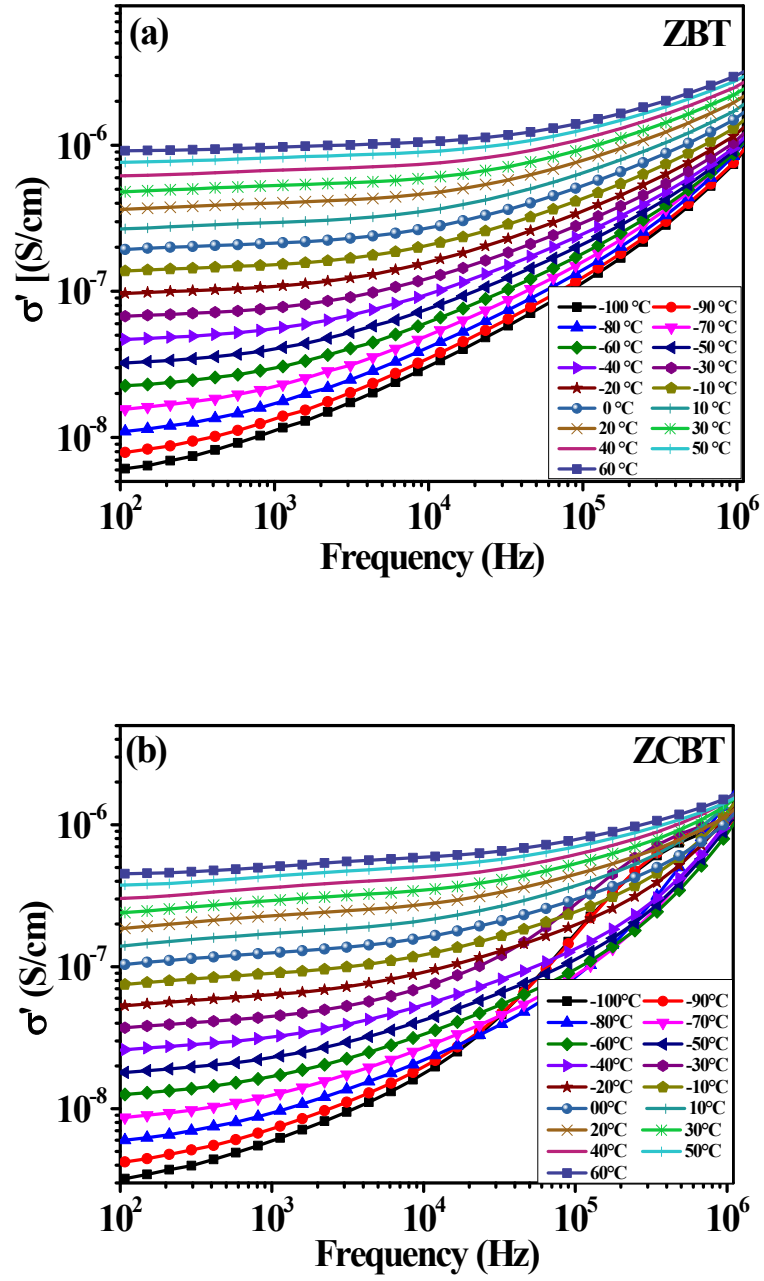


Figure S4. AC conductivity graphs of (a) ZBT and (b) ZCBT at various temperatures

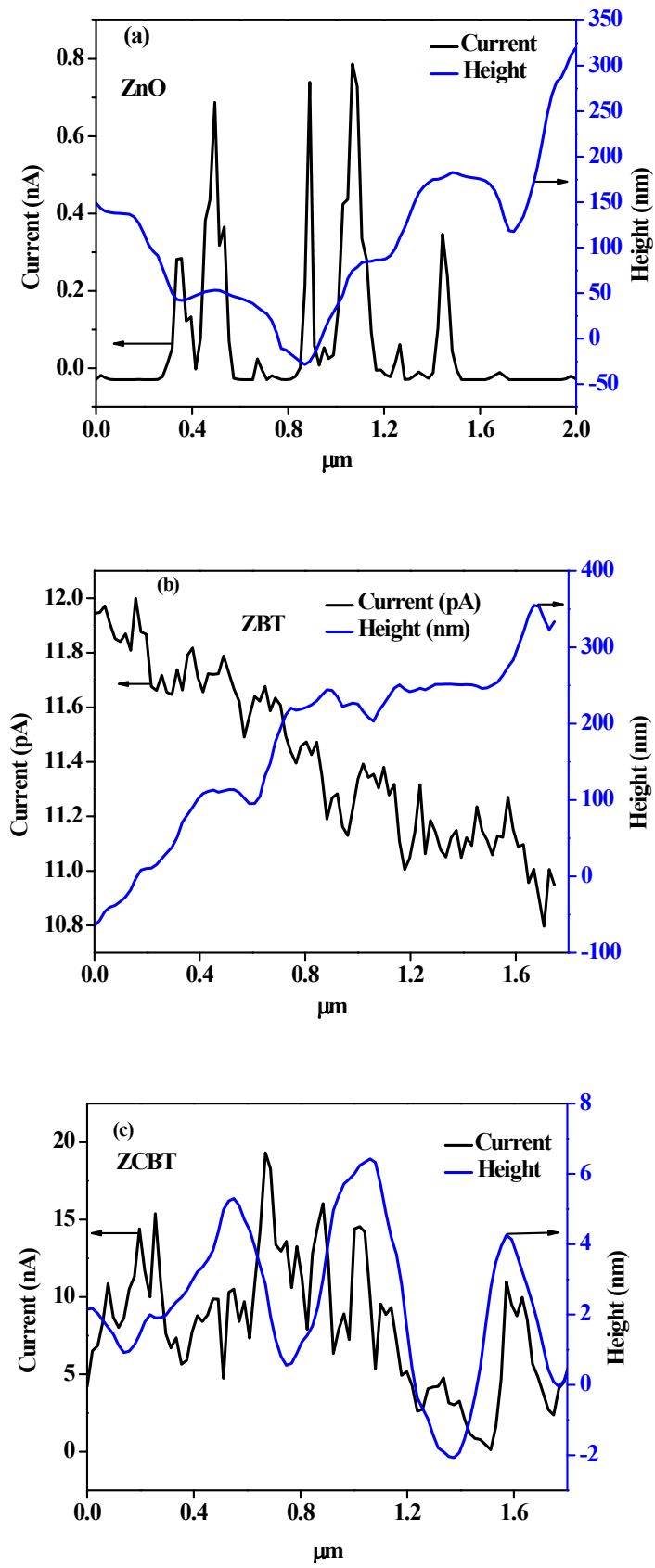


Figure S5. Topographic and Current profiles of (a) ZnO, (b,c) ZnO heterostructures (ZBT, ZCBT)