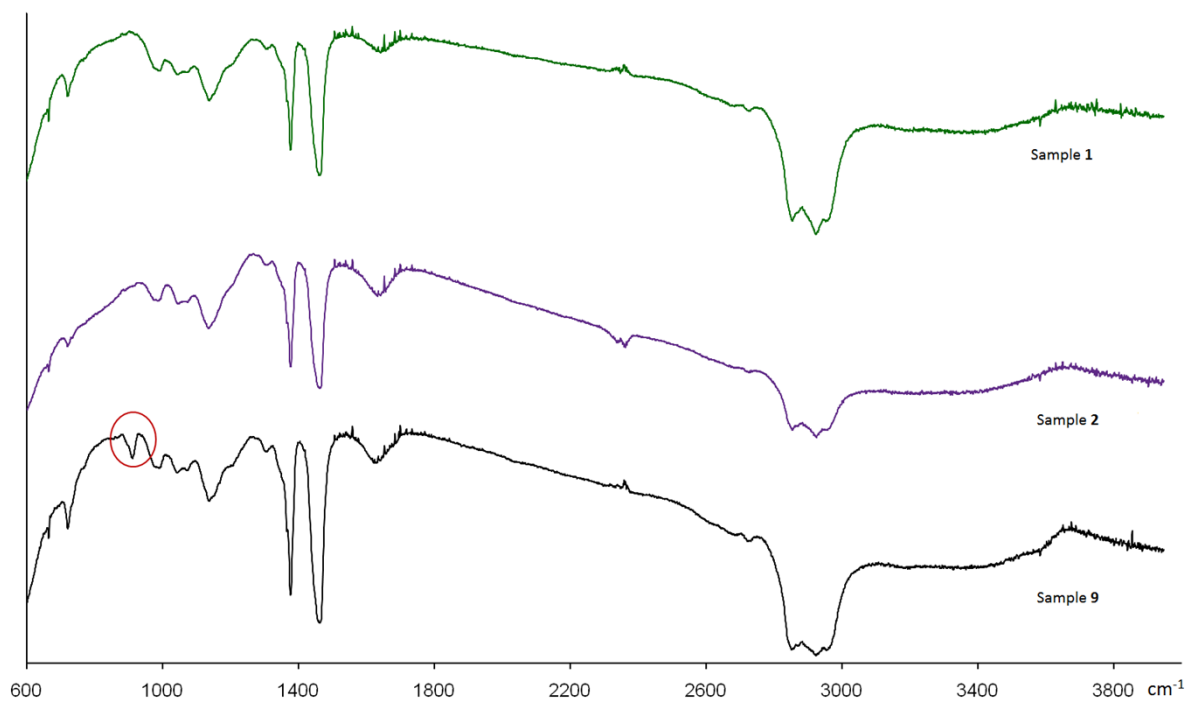
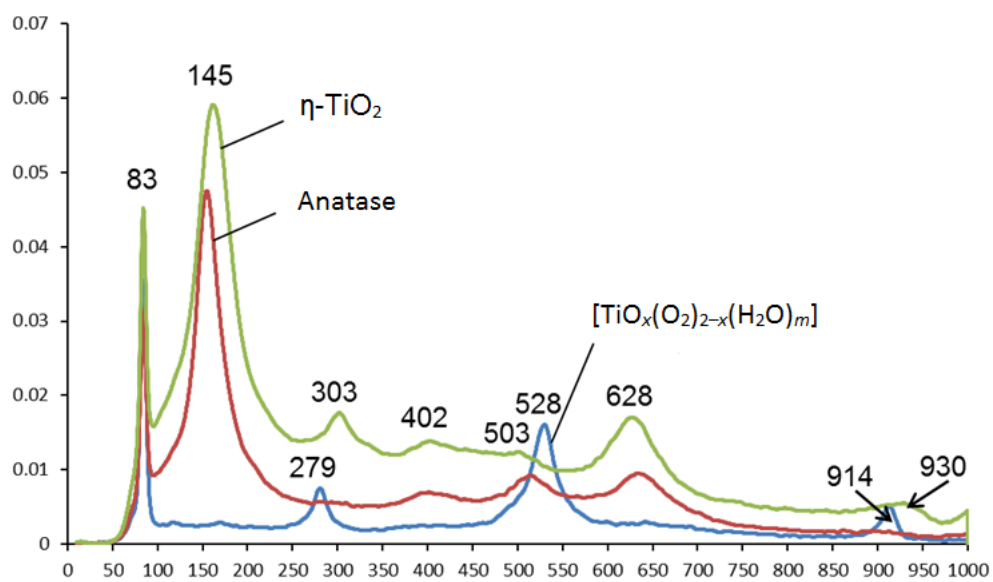


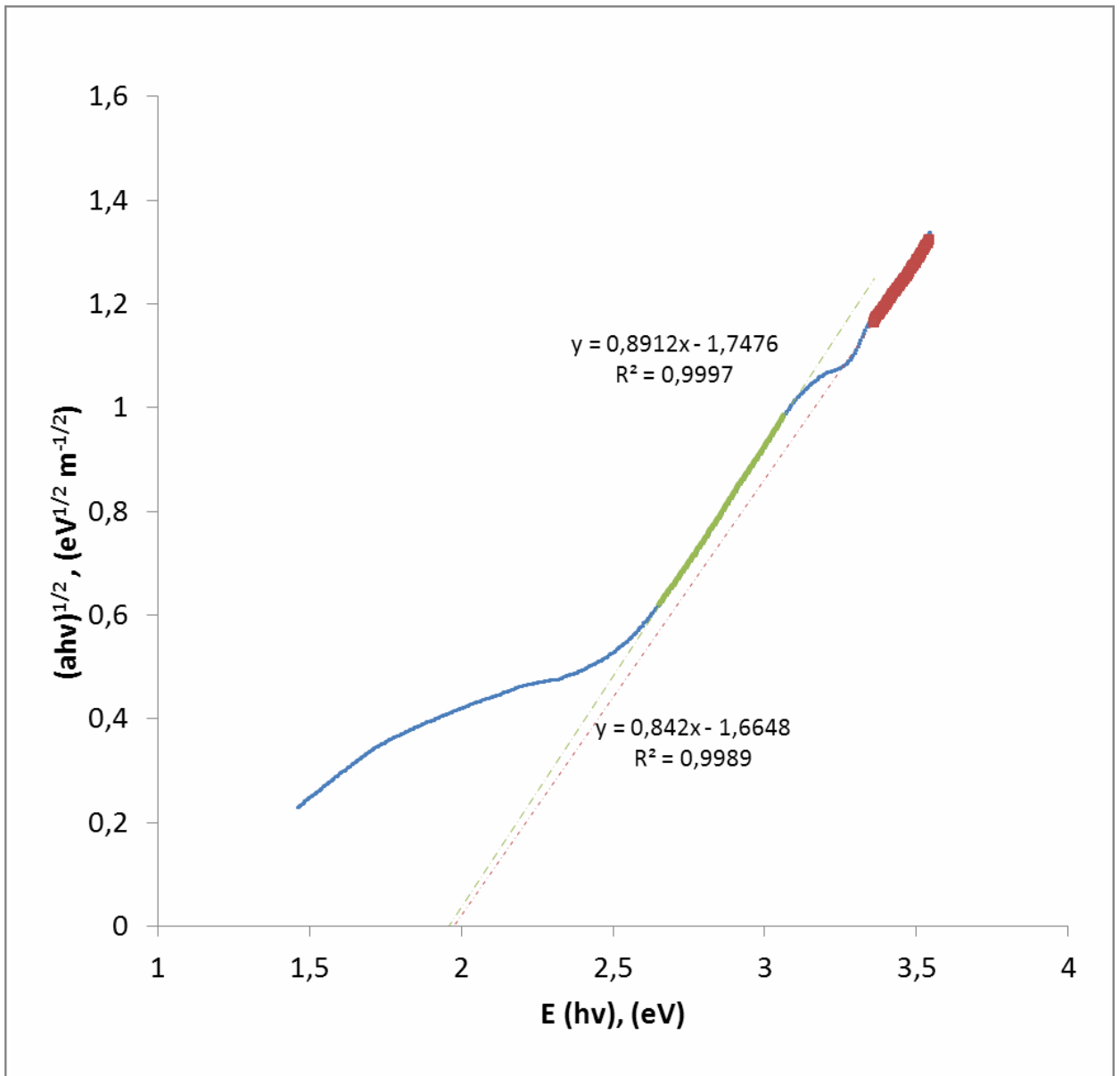
Supplementary data



IR spectra of samples 1, 2 and 9.



Raman spectra of anatase, $\eta\text{-TiO}_2$ and $[\text{TiO}_x(\text{O}_2)_{2-x}(\text{H}_2\text{O})_m]$.



Determination of E_g for sample **11**.