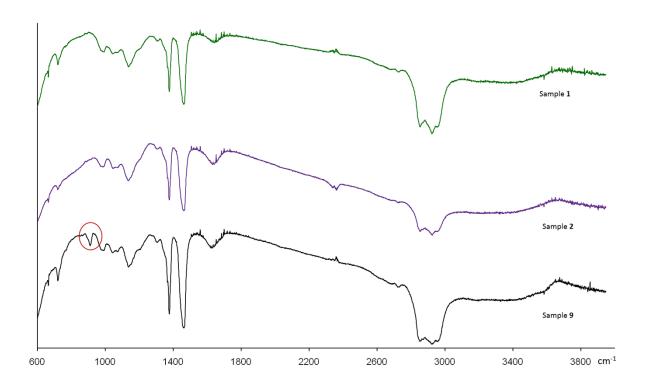
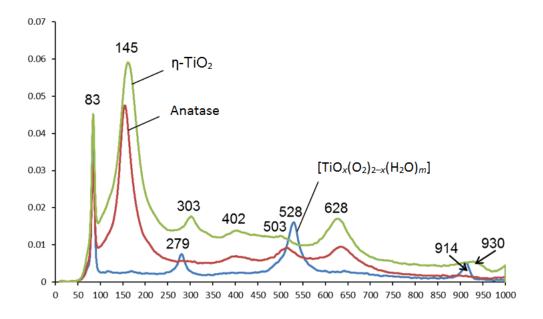
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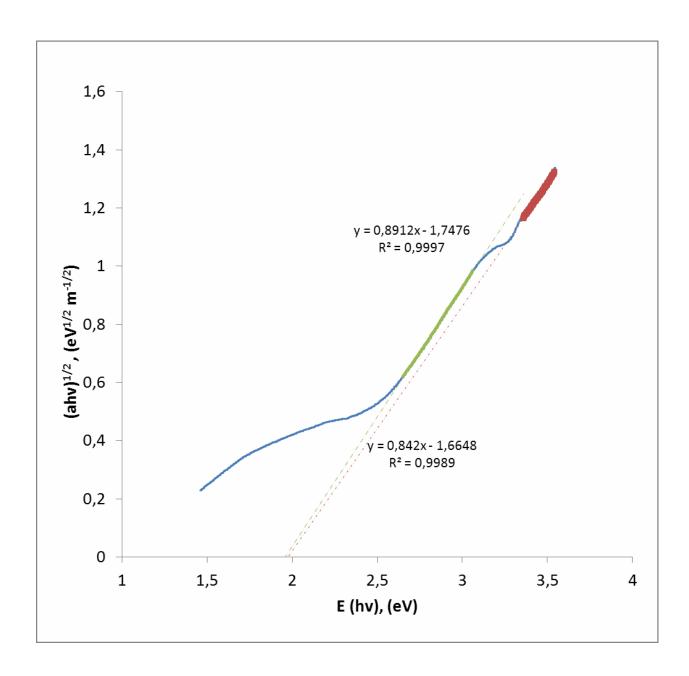
Supplementary data



IR spectra of samples 1, 2 and 9.



Raman spectra of anatase, η -TiO₂ and [TiO_x(O₂)_{2-x}(H₂O)_m].



Determination of $\boldsymbol{E}_{\boldsymbol{g}}$ for sample $\boldsymbol{11}.$