**Supplementary Information**

**Efficient photocatalysis of Cu doped TiO2/g-C3N4 for the photodegradation of methylene blue**

Heshan Liyanaarachchi1, Charitha Thambiliyagodage1,\*, Chamika Liyanaarachchi1, Upeka Samarakoon2

1Faculty of Humanities and Sciences, Sri Lanka Institute of Information Technology, New Kandy Road, Malabe, Sri Lanka

2Department of Nano Science Technology, Faculty of Technology, Wayamba University of Sri Lanka, Kuliyapitiya, Sri Lanka

\*charitha.t@sliit.lk



Figure 1. (a) Adsorption desorption isotherms (b) BJH pore size distribution curves of TiO2, Cu-TiO2 and Cu-TiO2/50-C3N4









Figure 2. (a) UV-Visible diffuse reflectance absorption spectra (b) Tauc plots indicating the direct transitions of the synthesized nanomaterials



Figure 3. Photodegradation of only methylene blue without any catalysts



Figure 4. The higher resolution spectrum of (a) Ti 2p and (b) N 1s of Cu-TiO2/50-C3N4-L



Figure 5. Molecular structure of Methylene Blue.