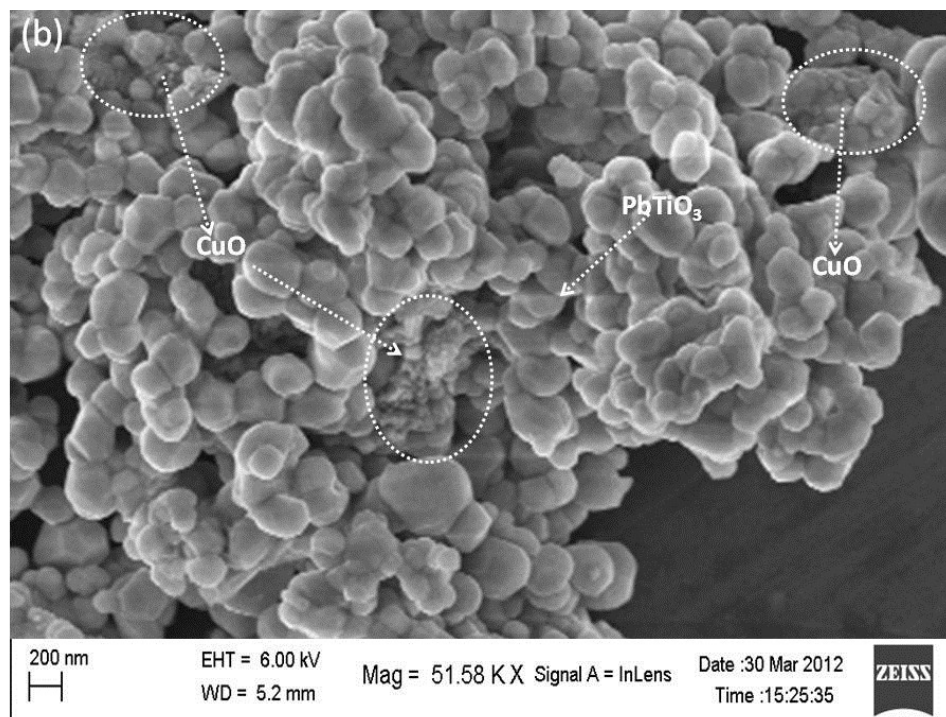
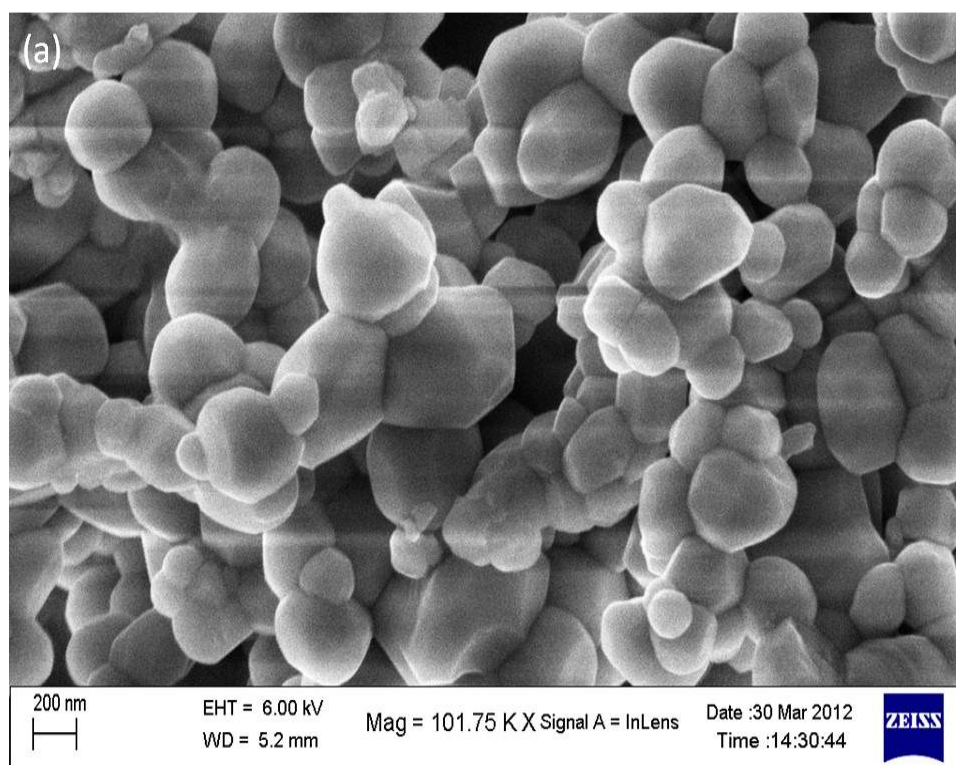
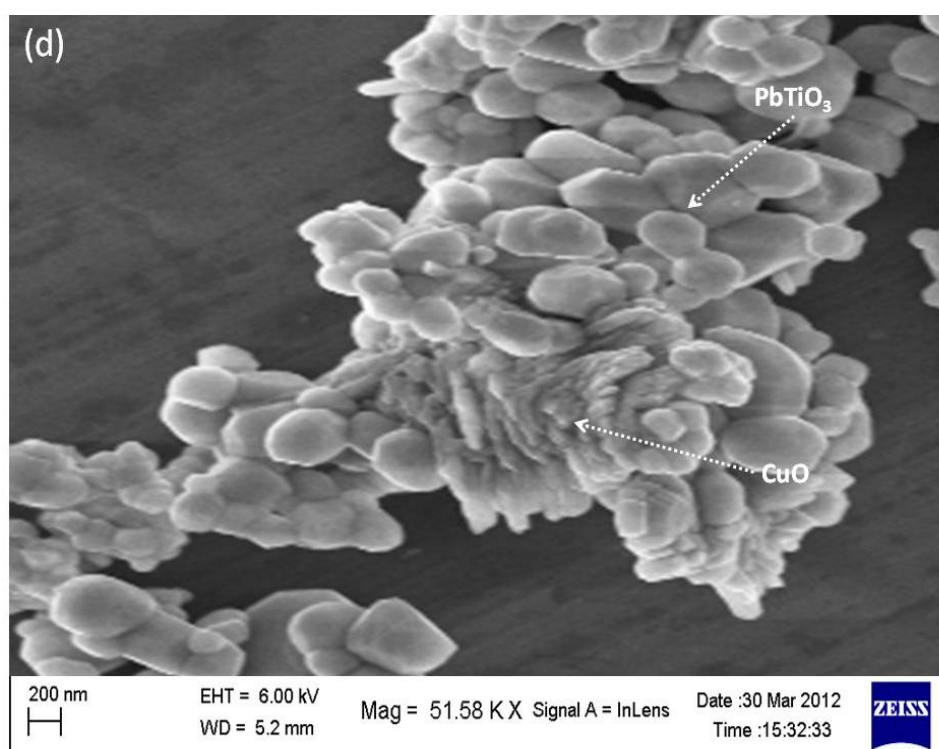
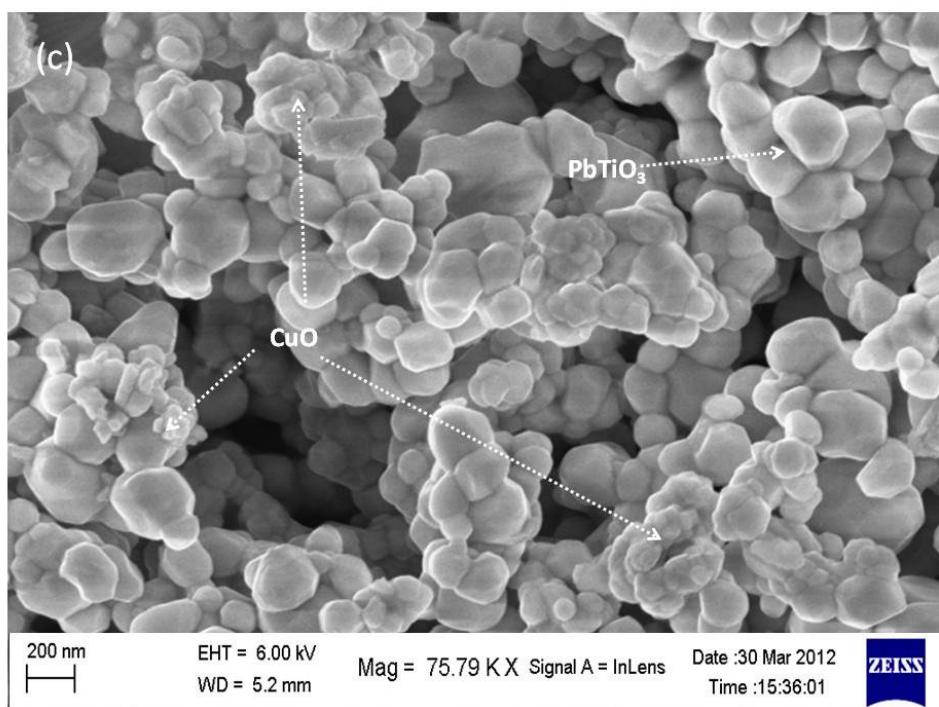
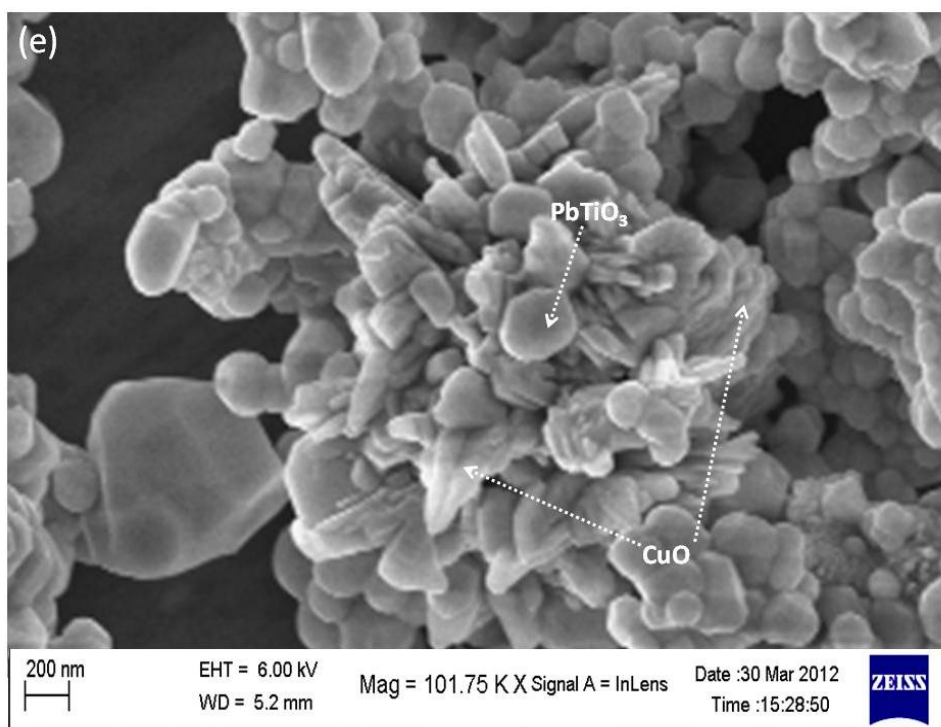


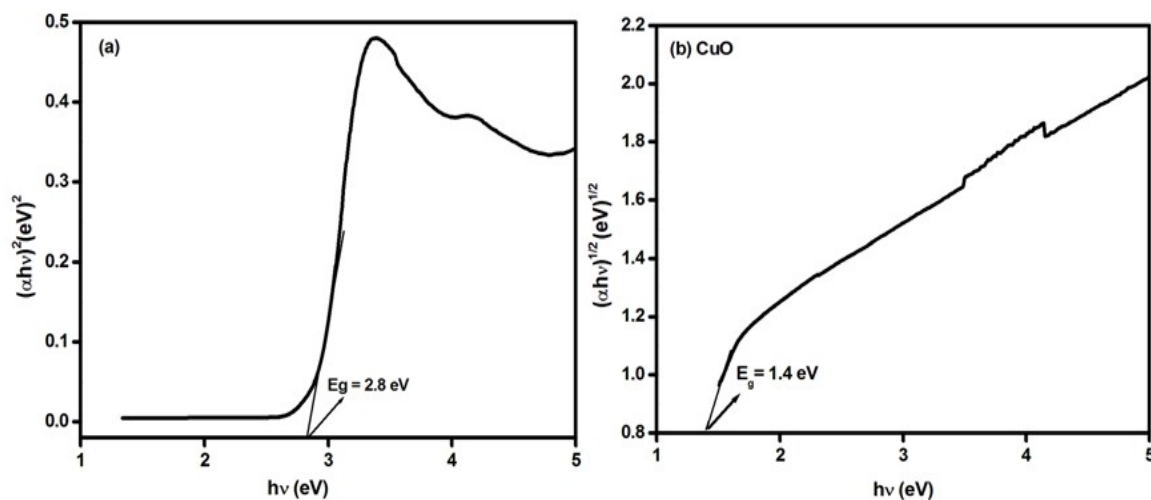
Supporting information



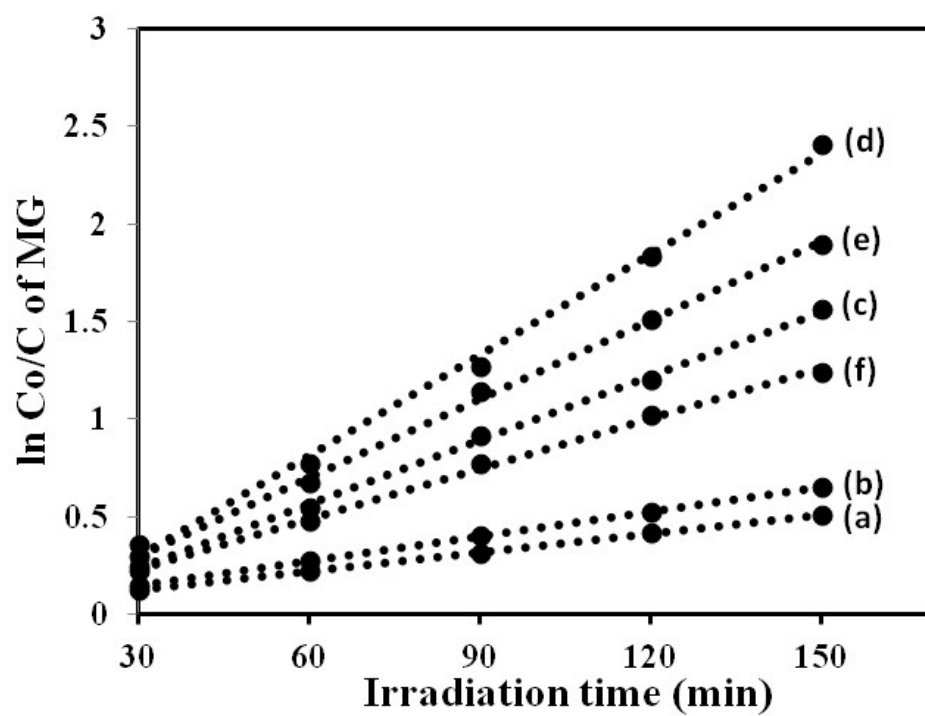




S1. † FESEM images of (a) PbTiO₃ (b) CP-11, (c) CP-33, (d) CP-66 and (e) CP-99.



S2. † (a) Plots of $(\alpha h\nu)^2$ vs. photon energy ($h\nu$) for the band gap energy of PbTiO₃ and (b) plots of $(\alpha h\nu)^{1/2}$ vs. photon energy ($h\nu$) for the band gap energy of CuO.



S3. † Pseudo-first order kinetics of (a) PbTiO₃, (b) CuO, (c) CP-11, (d) CP-33, (e) CP-66 and (f) CP-99.