

SUPPLEMENTARY INFORMATION

Studies on structural defects in bare, PVP capped and TPPO capped copper oxide nanoparticles by positron annihilation lifetime spectroscopy and its impact on photocatalytic degradation of Rhodamine B

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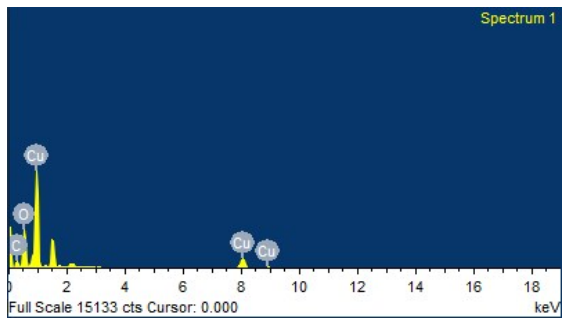
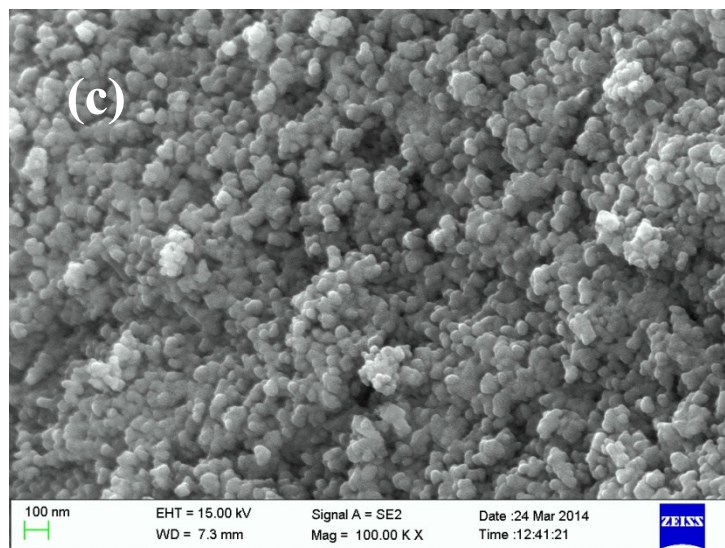
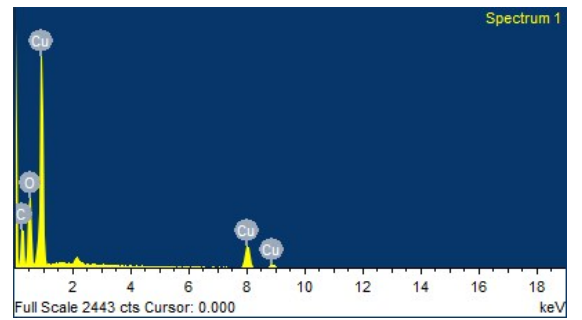
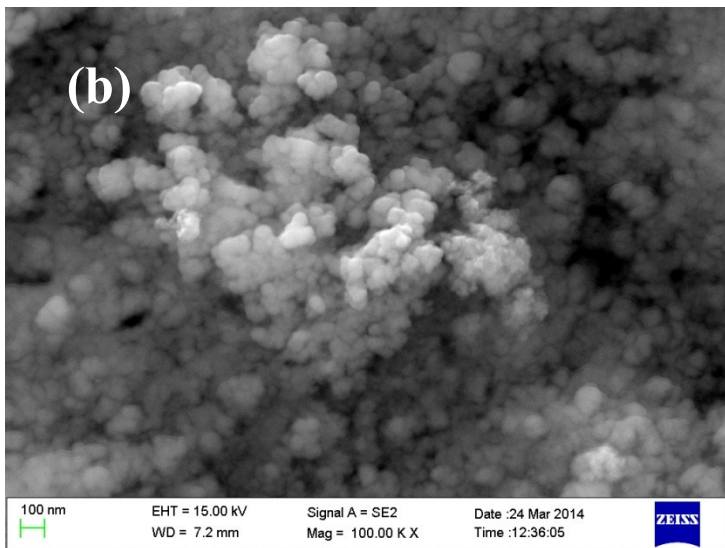
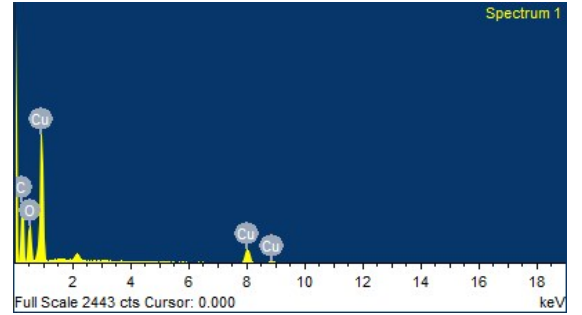
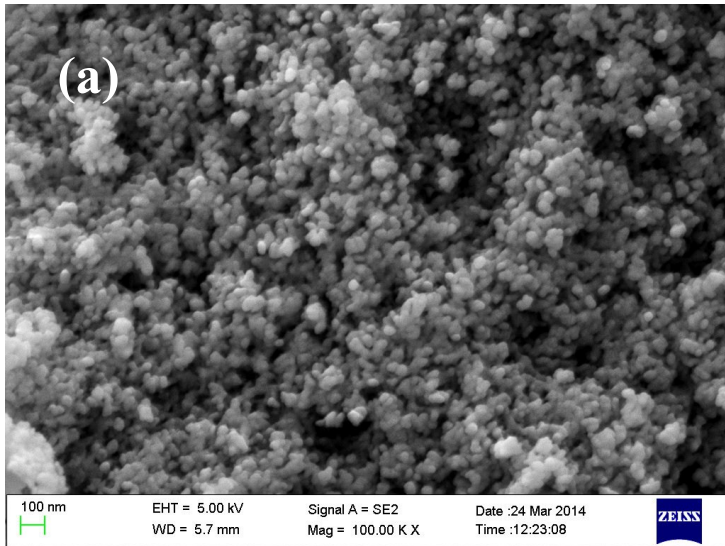


Fig. S1

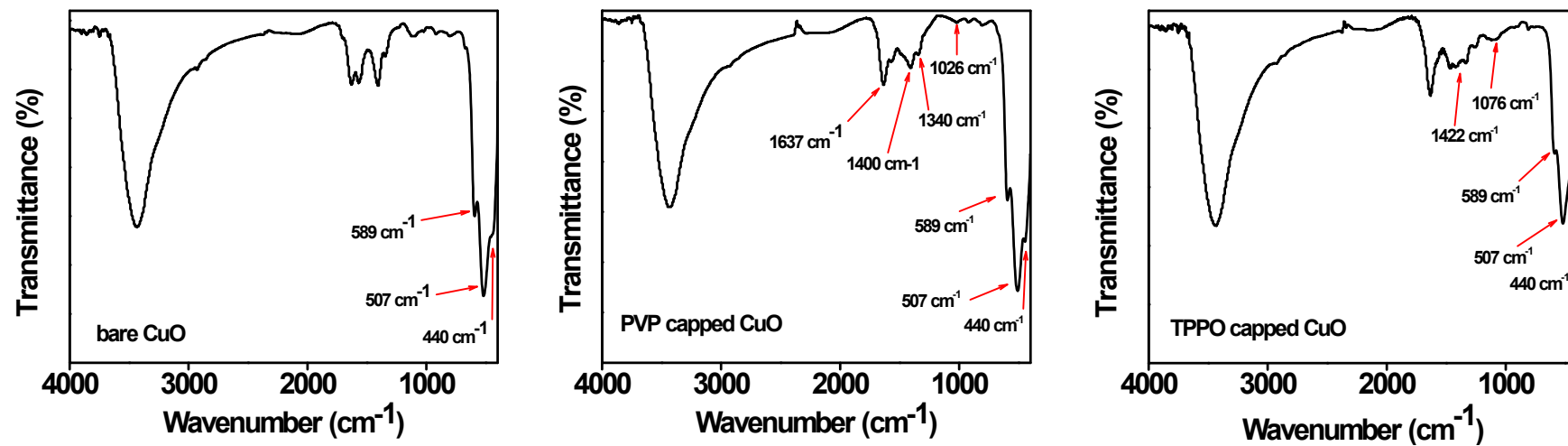


Fig. S2

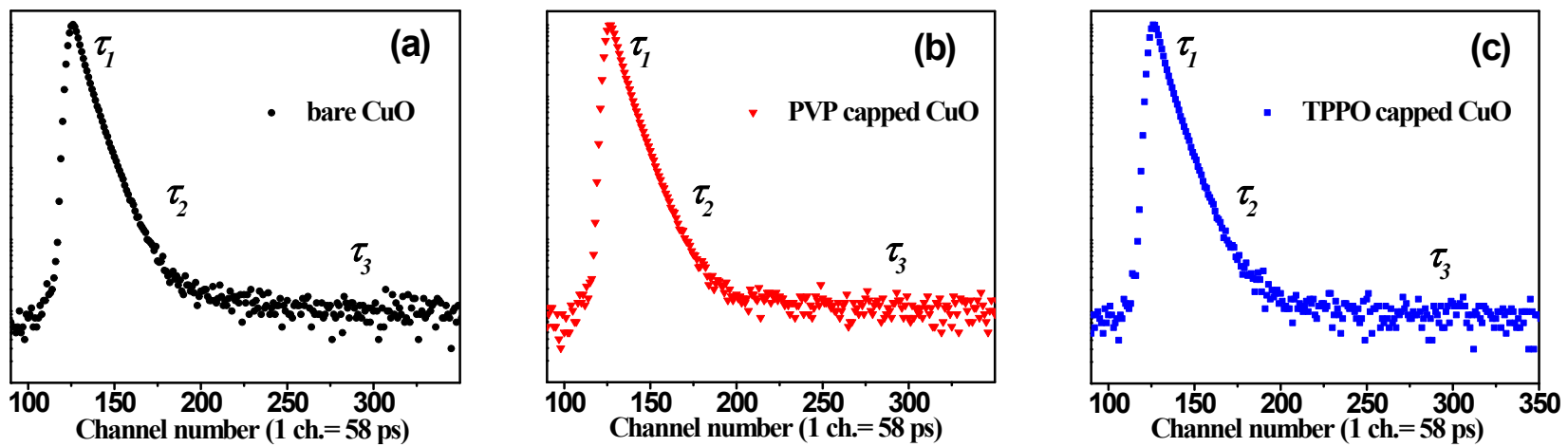


Fig. S3

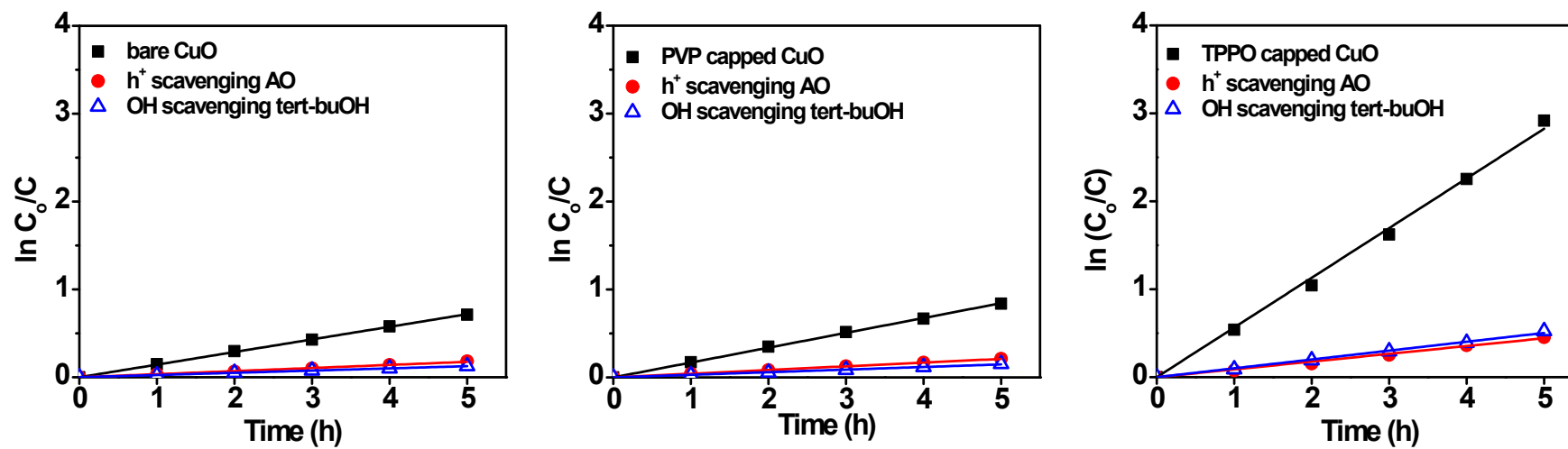


Fig. S4

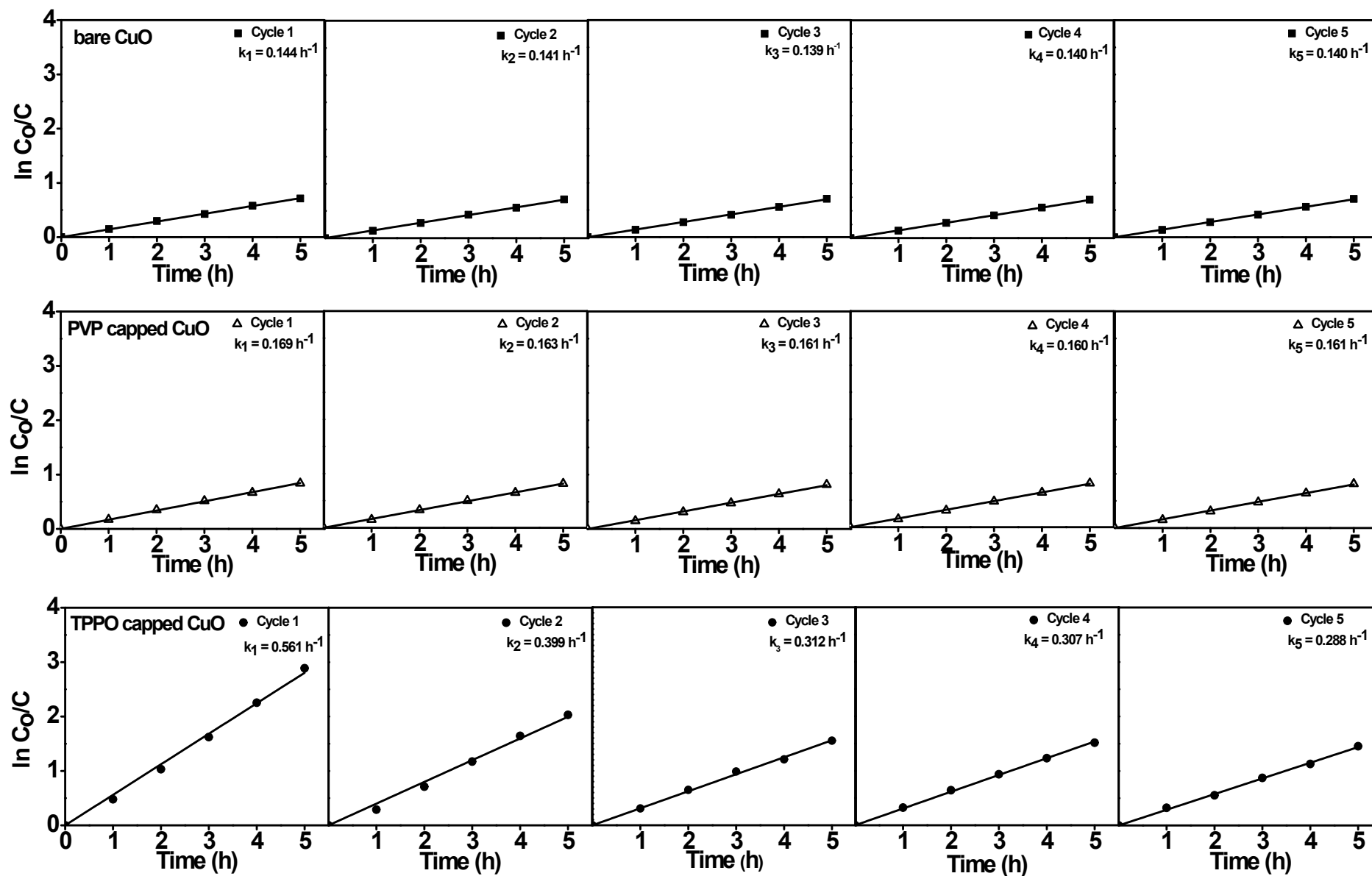


Fig S5

FIGURE CAPTION for Supporting Figures

- S1. FE-SEM images and EDX spectrum of (a) bare CuO (b) PVP capped CuO (c) TPPO capped CuO NPs
- S2. FTIR spectra of bare CuO, PVP capped CuO and TPPO capped CuO NPs
- S3. Positron lifetime spectra of (b) bare CuO (c) PVP capped CuO (d) TPPO capped CuO NPs.
- S4. Effects of different scavengers on the degradation of RhB by bare, PVP and TPPO capped CuO NPs
- S5. Kinetic studies of RhB dye degradation for five successive cycles with bare, PVP and TPPO capped CuO NPs