

**Mesoporous CuO Prepared in a Natural Deep Eutectic Solvent Medium for Effective
Photodegradation of Rhodamine B**

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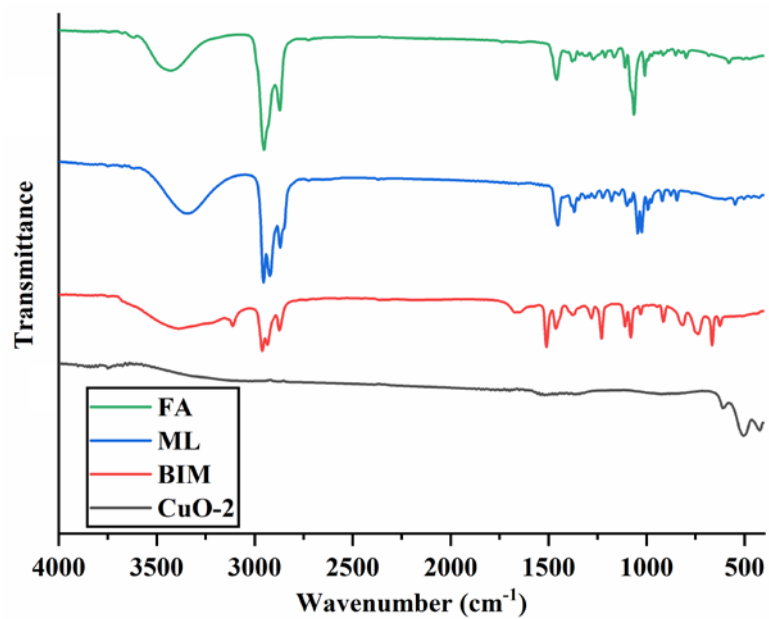


Figure S1. The FT-IR spectra of FA, ML, BIM and CuO-2 NPs.

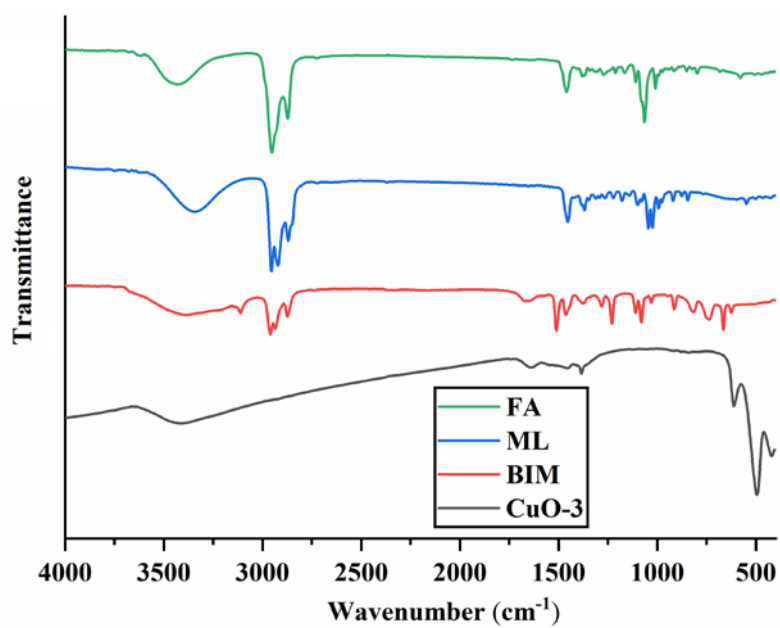


Figure S2. The FT-IR spectra of FA, ML, BIM and CuO-3 NPs.

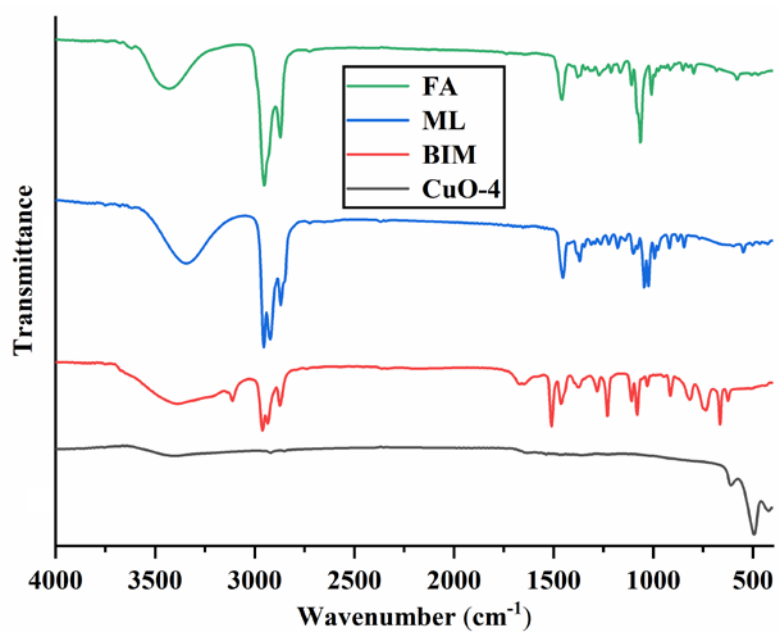


Figure S3. The FT-IR spectra of FA, ML, BIM and CuO-4 NPs.

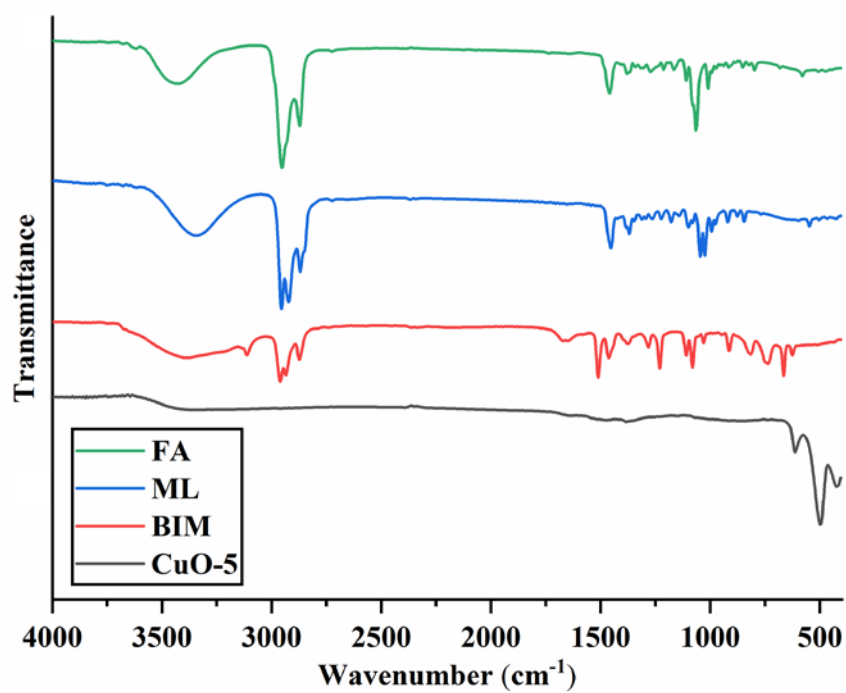


Figure S4. The FT-IR spectra of FA, ML, BIM and CuO-5 NPs.

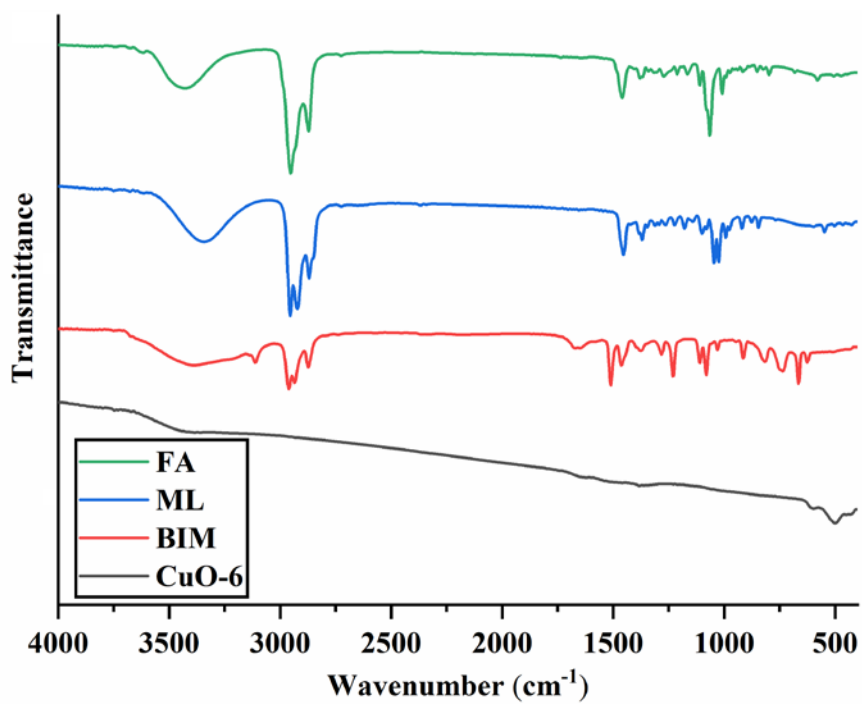


Figure S5. The FT-IR spectra of FA, ML, BIM and CuO-6 NPs.

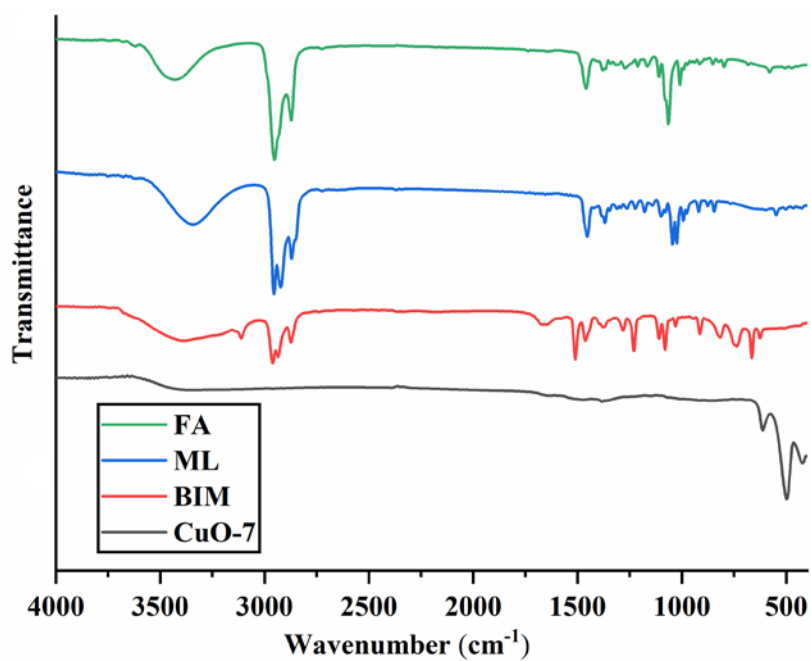


Figure S6. The FT-IR spectra of FA, ML, BIM and CuO-7 NPs.

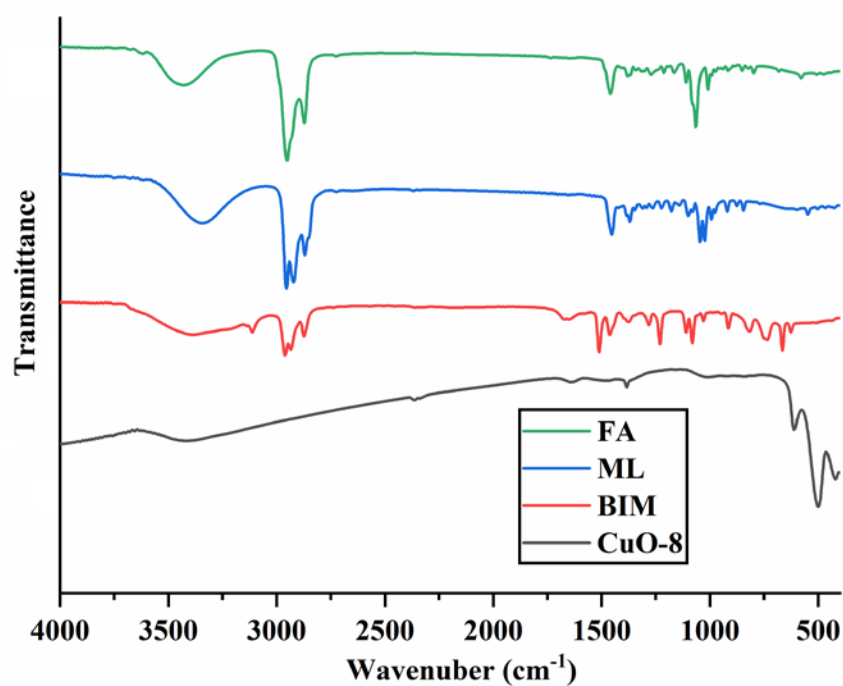


Figure S7. The FT-IR spectra of FA, ML, BIM and CuO-8 NPs.

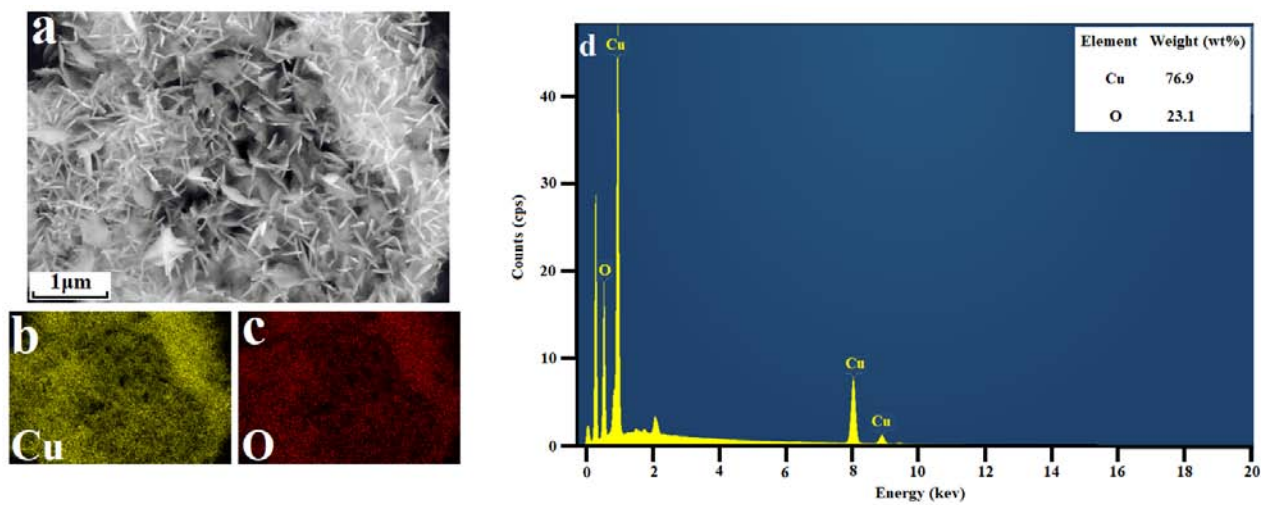


Figure S8. The SEM image (a), EDS mapping (b, c) and EDX pattern (d) of CuO-2 NPs.

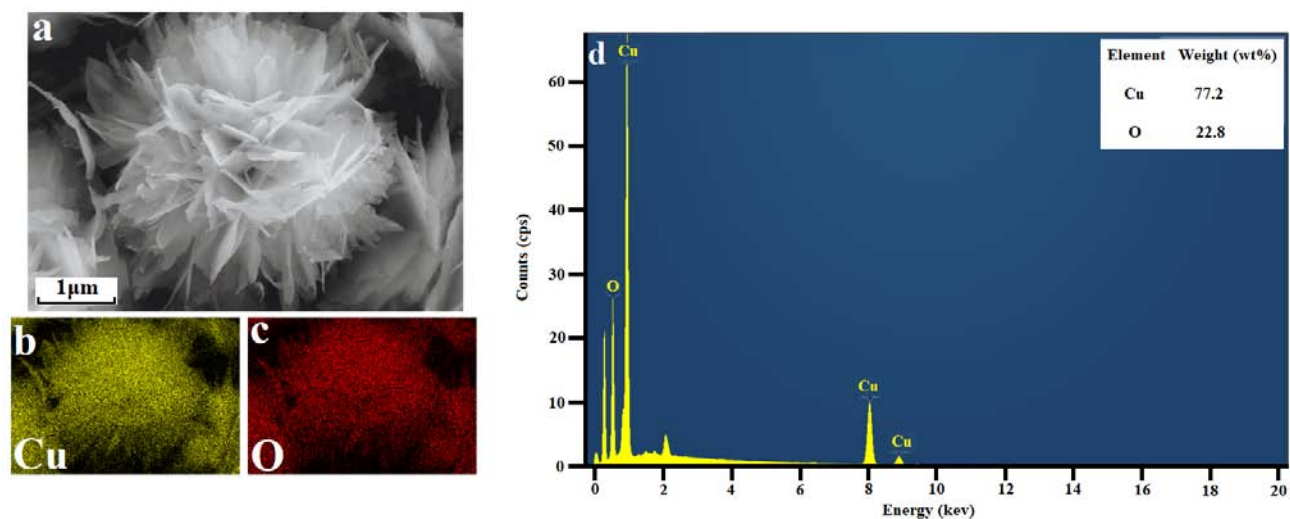


Figure S9. The SEM image (a), EDS mapping (b, c) and EDX pattern (d) of CuO-3 NPs.

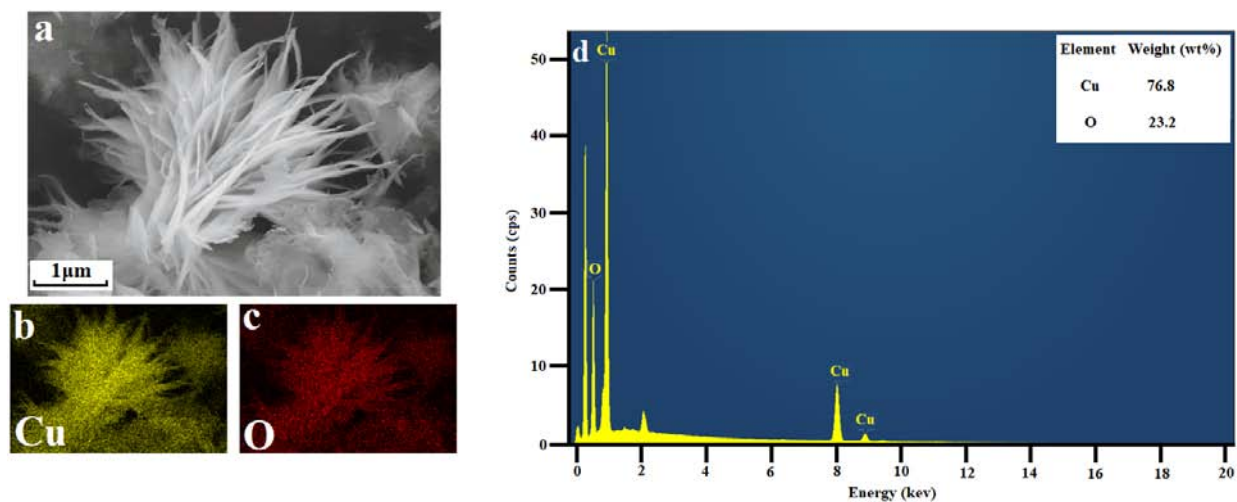


Figure S10. The SEM image (a), EDS mapping (b, c) and EDX pattern (d) of CuO-4 NPs.

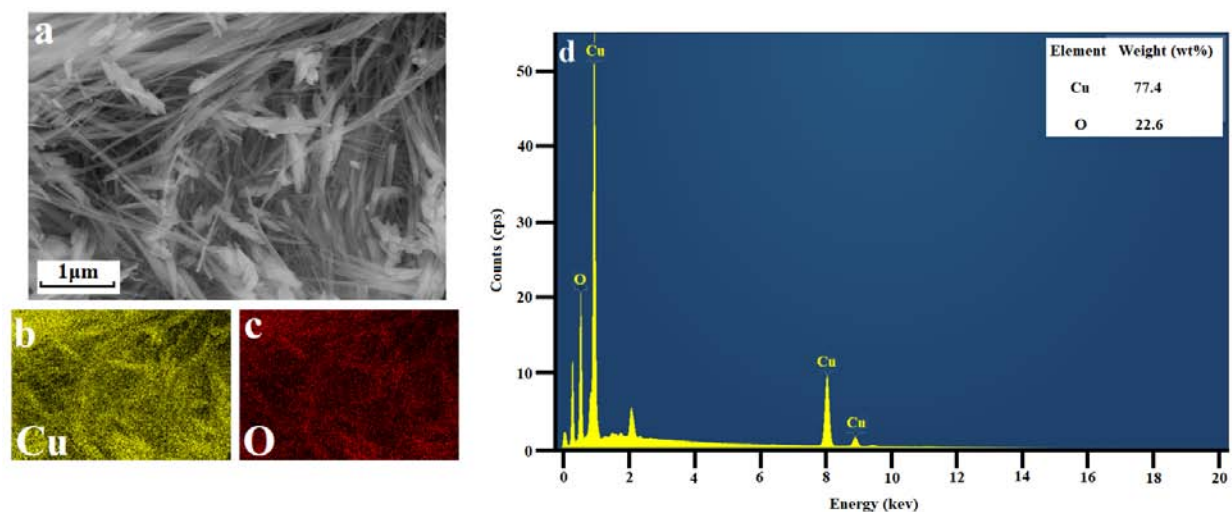


Figure S11. The SEM image (a), EDS mapping (b, c) and EDX pattern (d) of CuO-5 NPs.

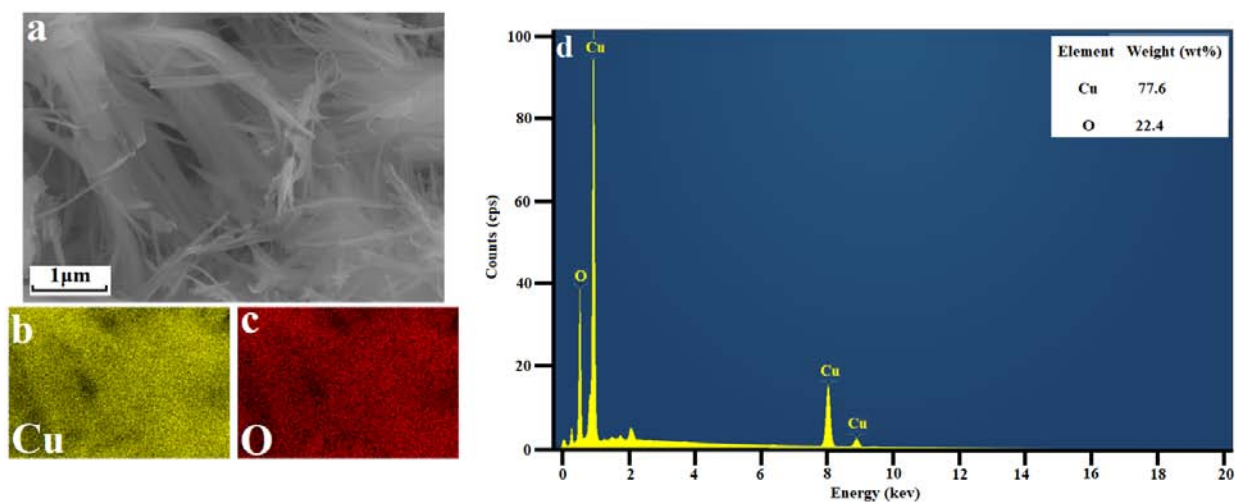


Figure S12. The SEM image (a), EDS mapping (b, c) and EDX pattern (d) of CuO-6 NPs.

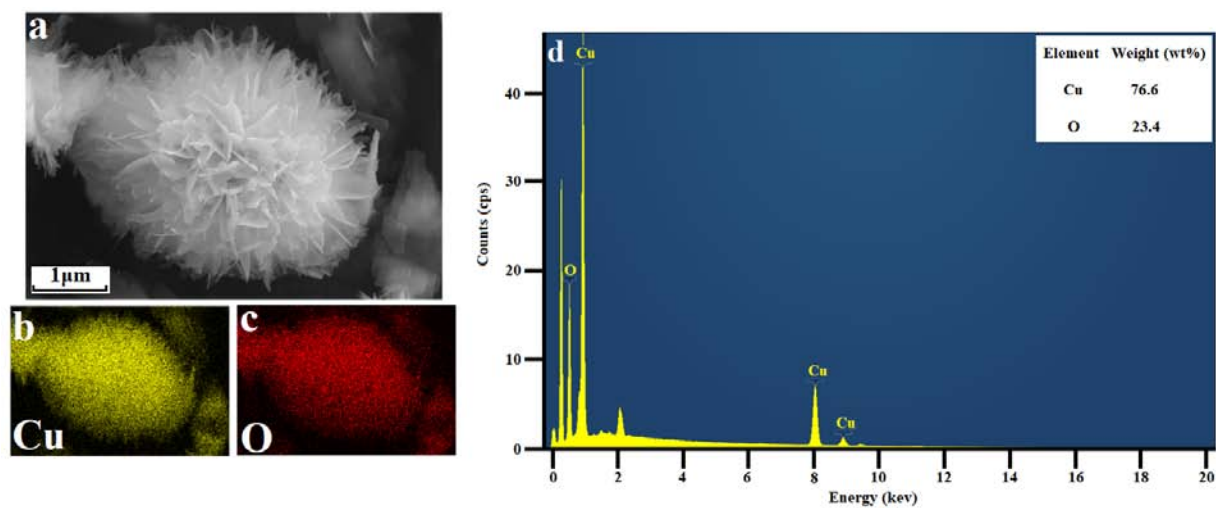


Figure S13. The SEM image (a), EDS mapping (b, c) and EDX pattern (d) of CuO-7 NPs.

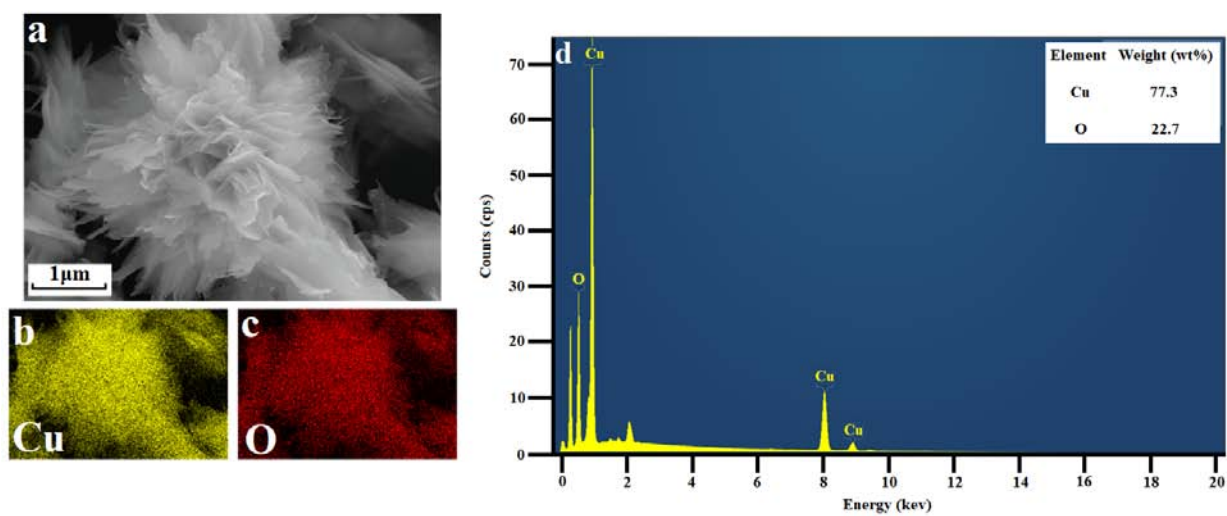


Figure S14. The SEM image (a), EDS mapping (b, c) and EDX pattern (d) of CuO-8 NPs.

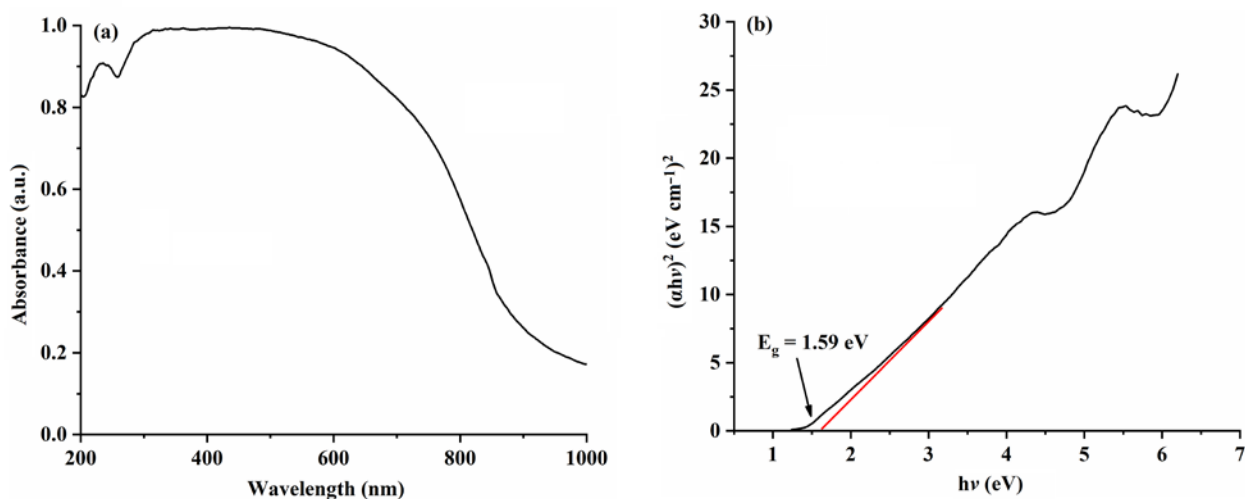


Figure S15. The UV-Vis absorption spectrum (a) and Tauc plot (b) of mesoporous CuO-2.

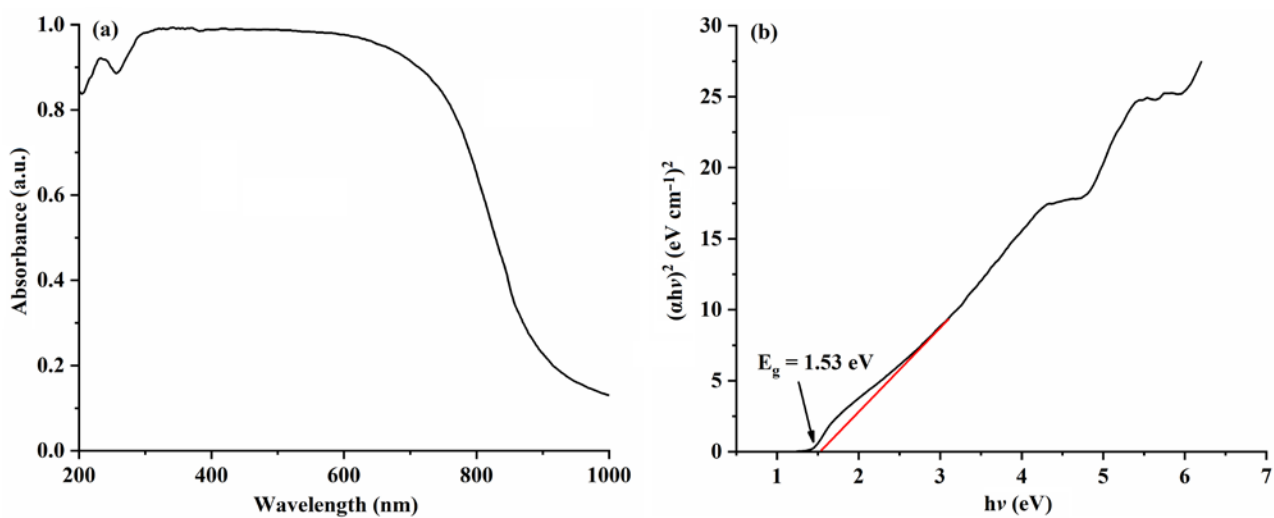


Figure S16. The UV-Vis absorption spectrum (a) and Tauc plot (b) of mesoporous CuO-3.

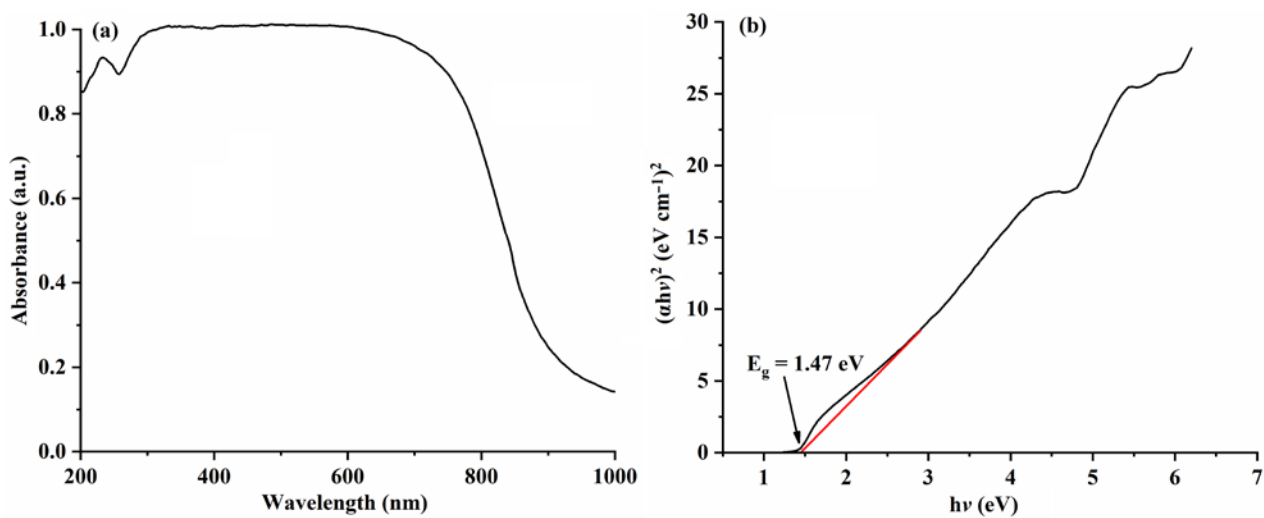


Figure S17. The UV-Vis absorption spectrum (a) and Tauc plot (b) of mesoporous CuO-4.

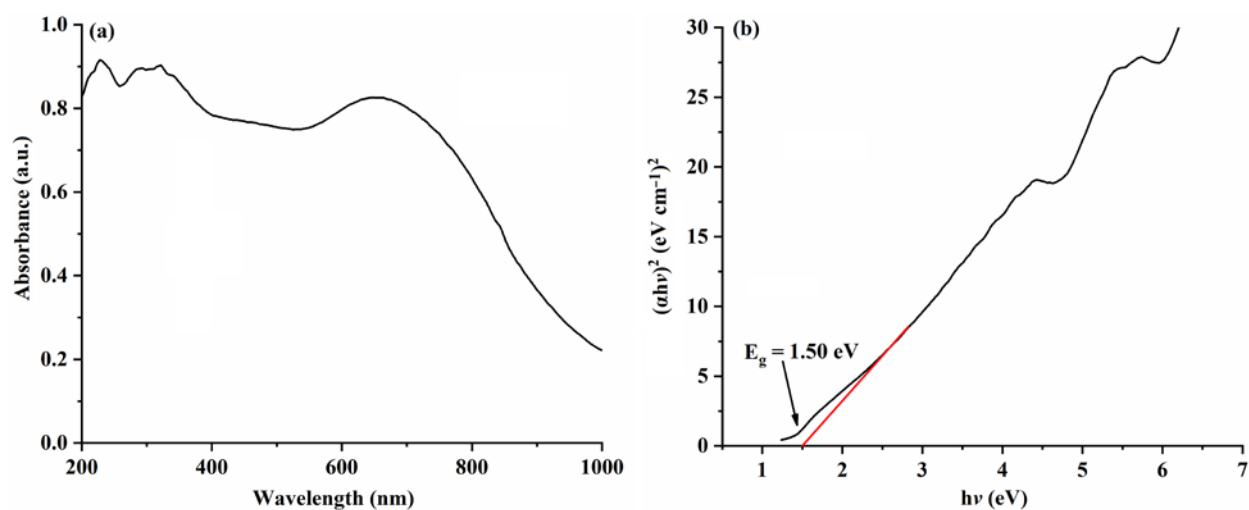


Figure S18. The UV-Vis absorption spectrum (a) and Tauc plot (b) of mesoporous CuO-5.

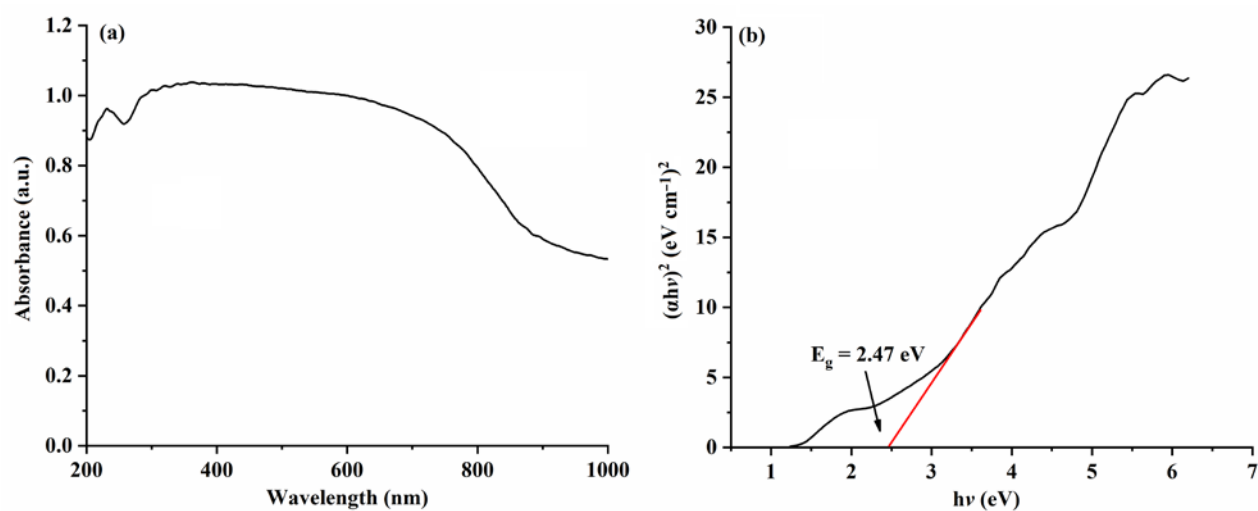


Figure S19. The UV-Vis absorption spectrum (a) and Tauc plot (b) of mesoporous CuO-6.

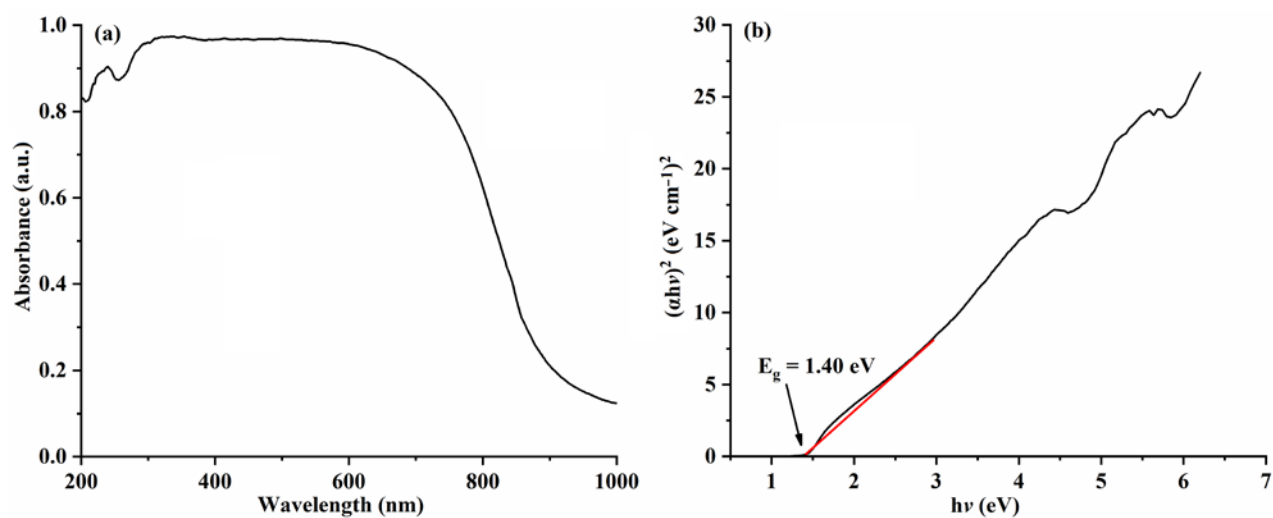


Figure S20. The UV-Vis absorption spectrum (a) and Tauc plot (b) of mesoporous CuO-7.

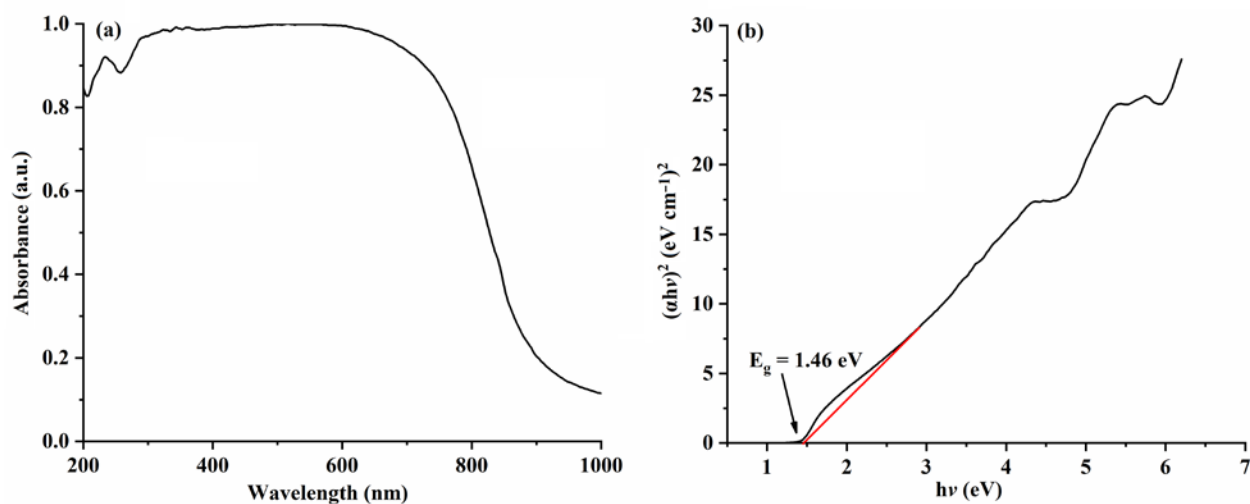


Figure S21. The UV-Vis absorption spectrum (a) and Tauc plot (b) of mesoporous CuO-8.

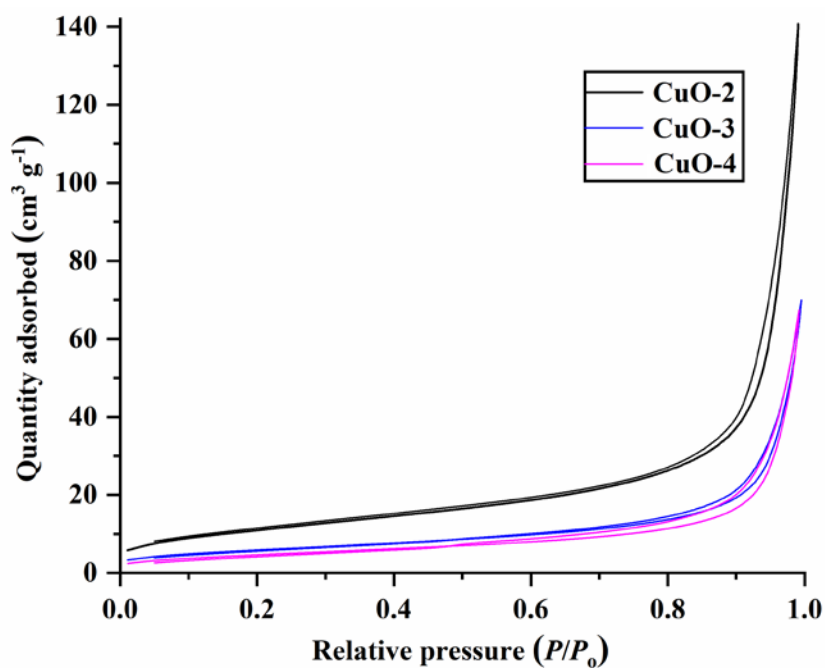


Figure S22. The N₂ adsorption-desorption isotherms (77 K) of the synthesized CuO-2, CuO-3 and CuO-4.

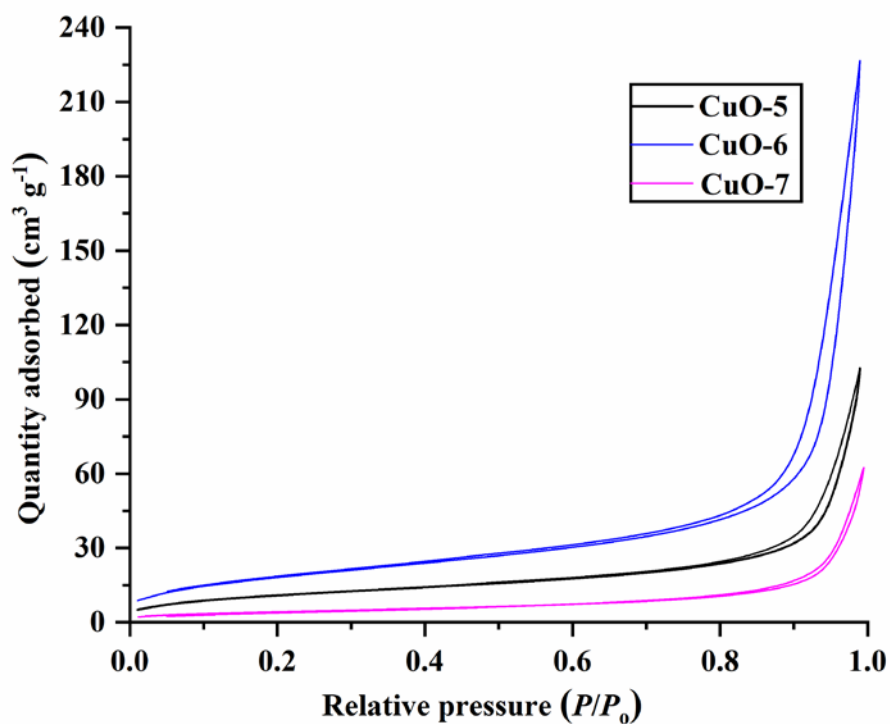


Figure S23. The N₂ adsorption–desorption isotherms (77 K) of the synthesized CuO-5, CuO-6 and CuO-7.

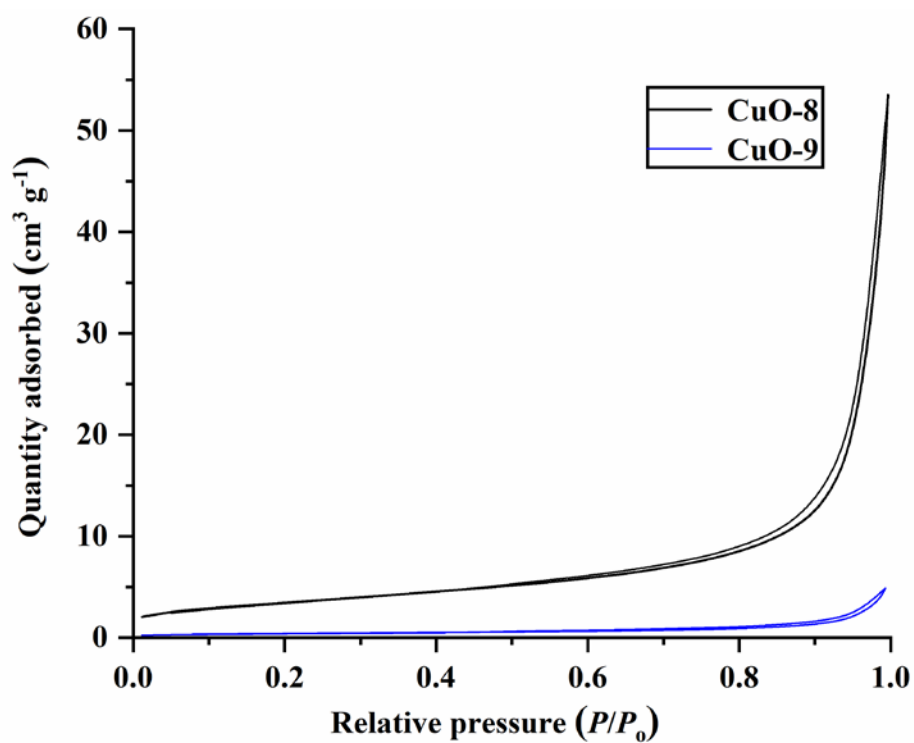


Figure S24. The N₂ adsorption–desorption isotherms (77 K) of the synthesized CuO-8 and CuO-9.