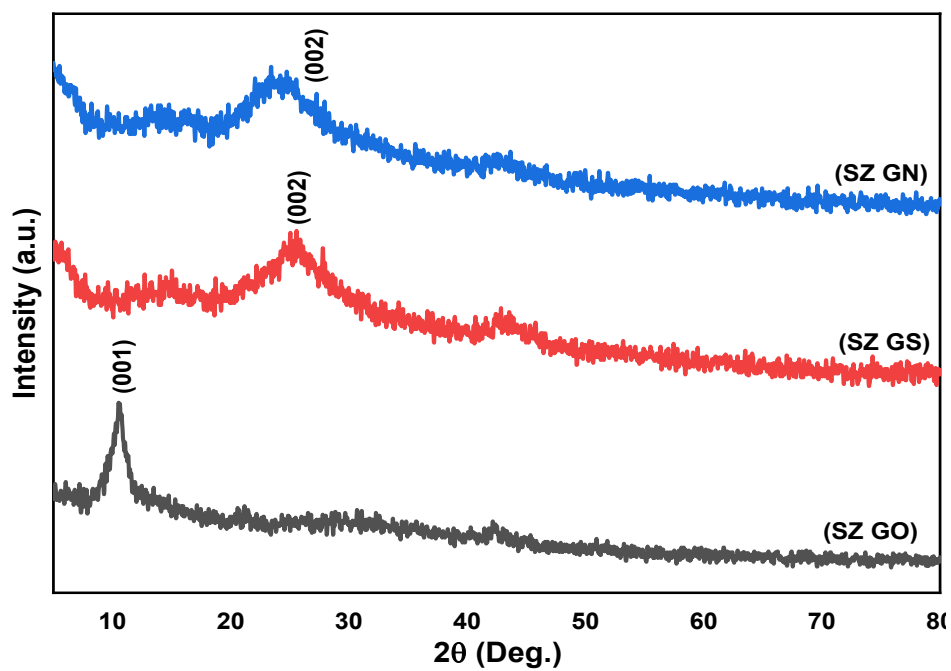
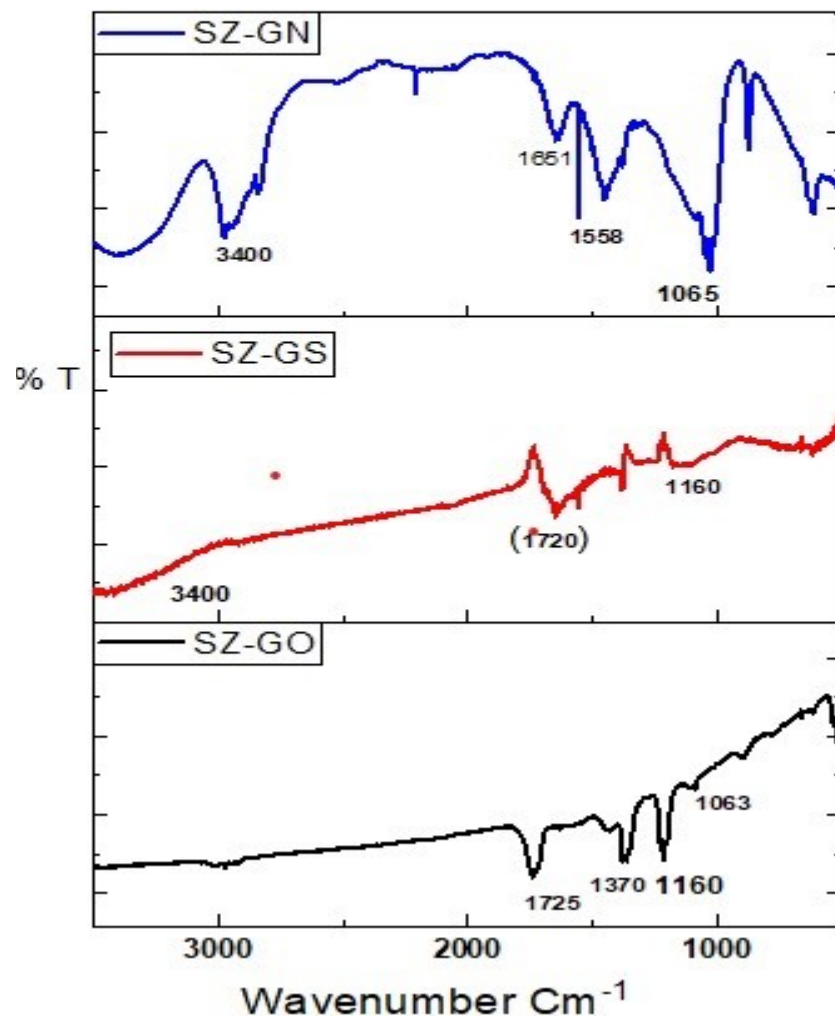


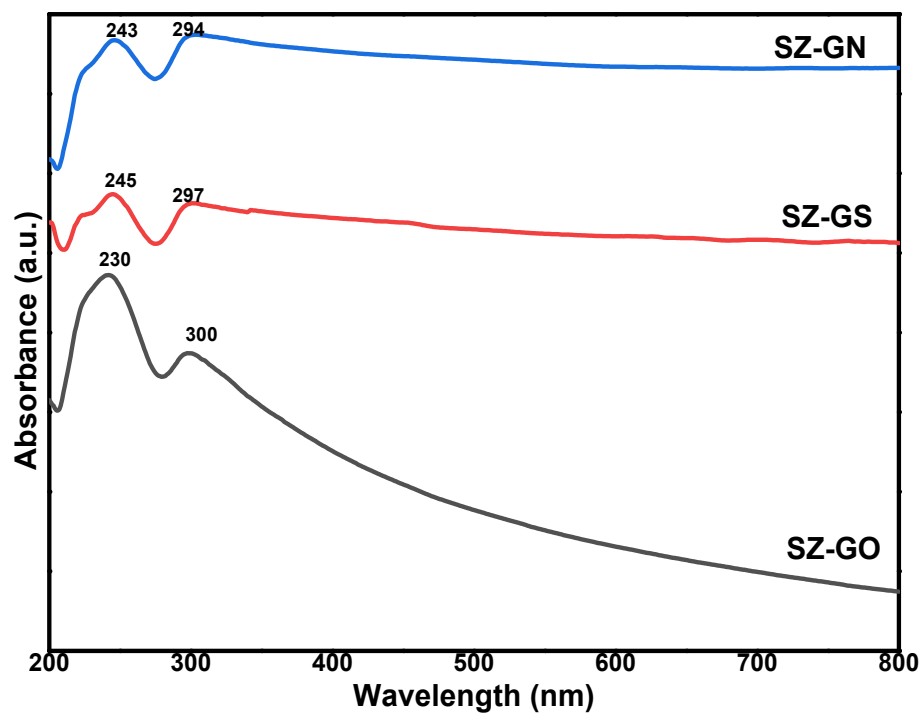
SUPPLEMENTARY DATA



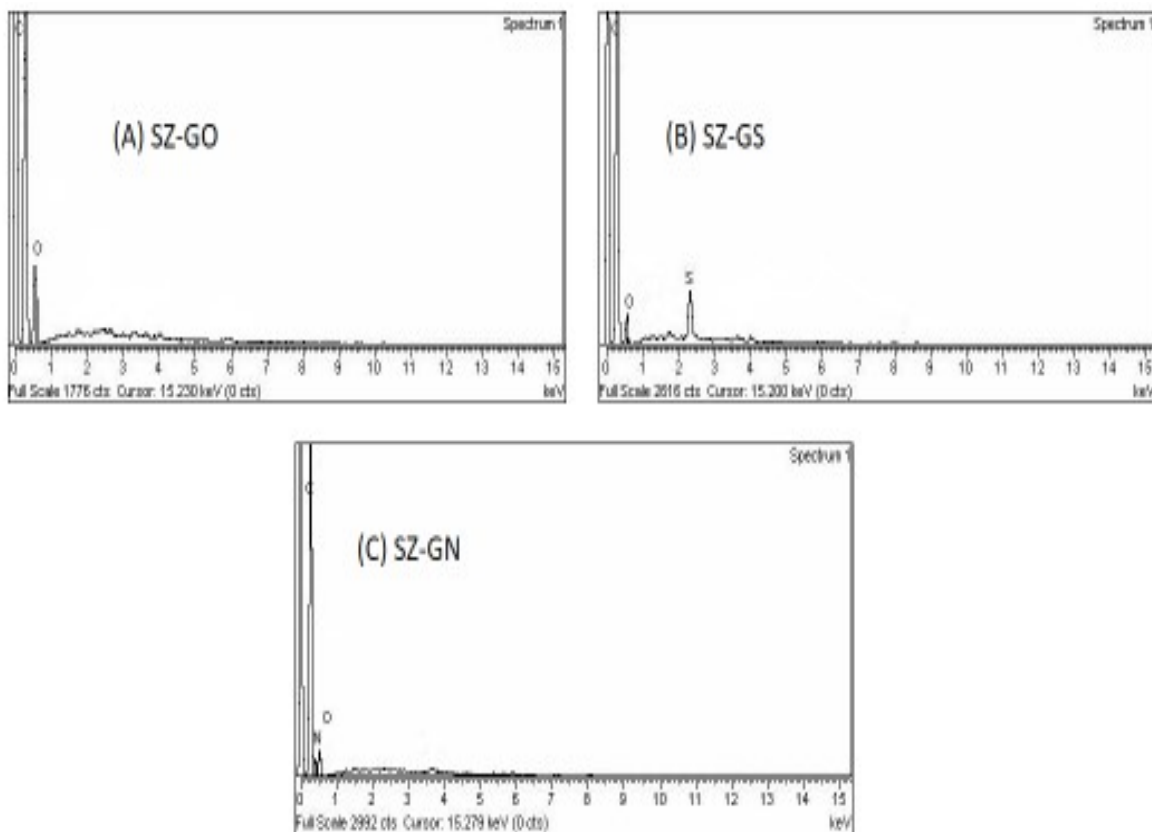
S1: XRD spectra of GO (SZ-GO), S-GO (SZ-GS), N-GO (SZ-GN) ¹



S2: FTIR spectra of GO (SZ-GO), S-GO (SZ-GS) and N-GO (SZ-GN)



S3: UV-Visible spectra of SZ-GO, SZ-GS and SZ-GN



S4: EDX spectra for SZ-GO, SZ-GS and SZ-GN nanocomposites

References

- 1 S. Zafar, B. A. Khan, I. Ahmad, M. N. Ahmed, A. Zafar, R. Khan, M. A. El-Tayeb, A. M. Awad, T. Shoeib and M. A. A. Ibrahim, *Chem. Phys. Impact*, 2024, **9**, 100748.