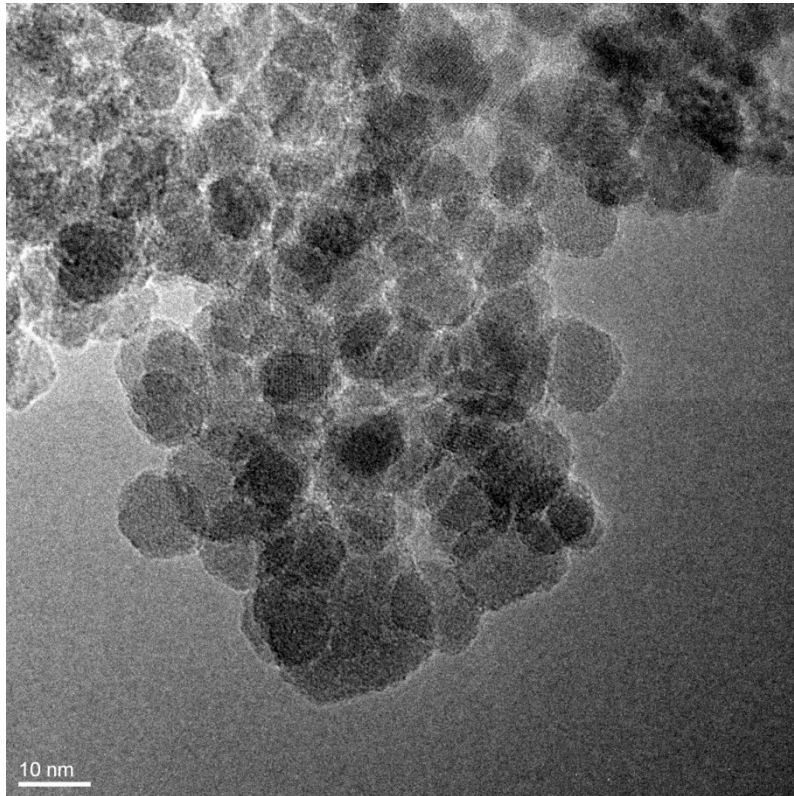


Supplementary materials

# Use of Low-Cost Magnetic Materials Containing Waste Derivatives for the (Photo)-Fenton Removal of Organic Pollutants

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**Figure S1.** TEM image of nanoparticles.

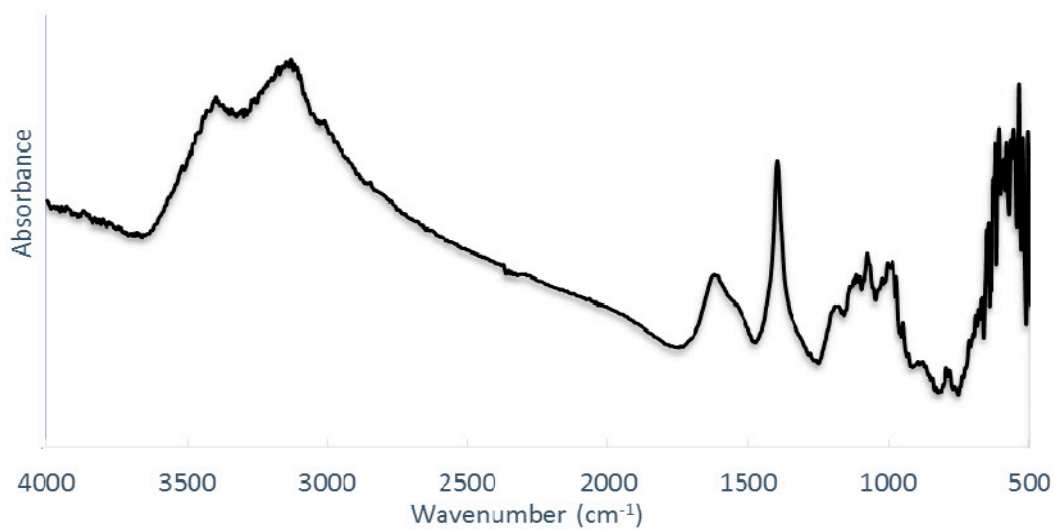


Figure S2. IR spectrum of nanoparticles dispersed in KBr.

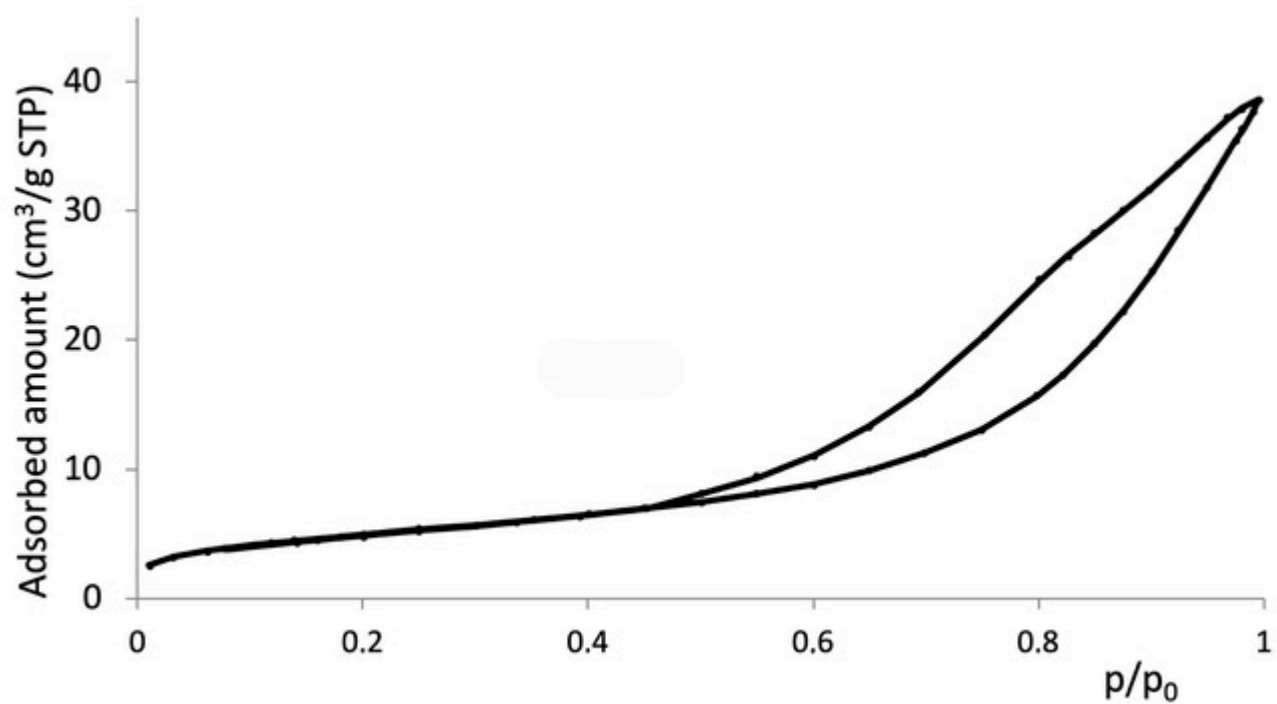
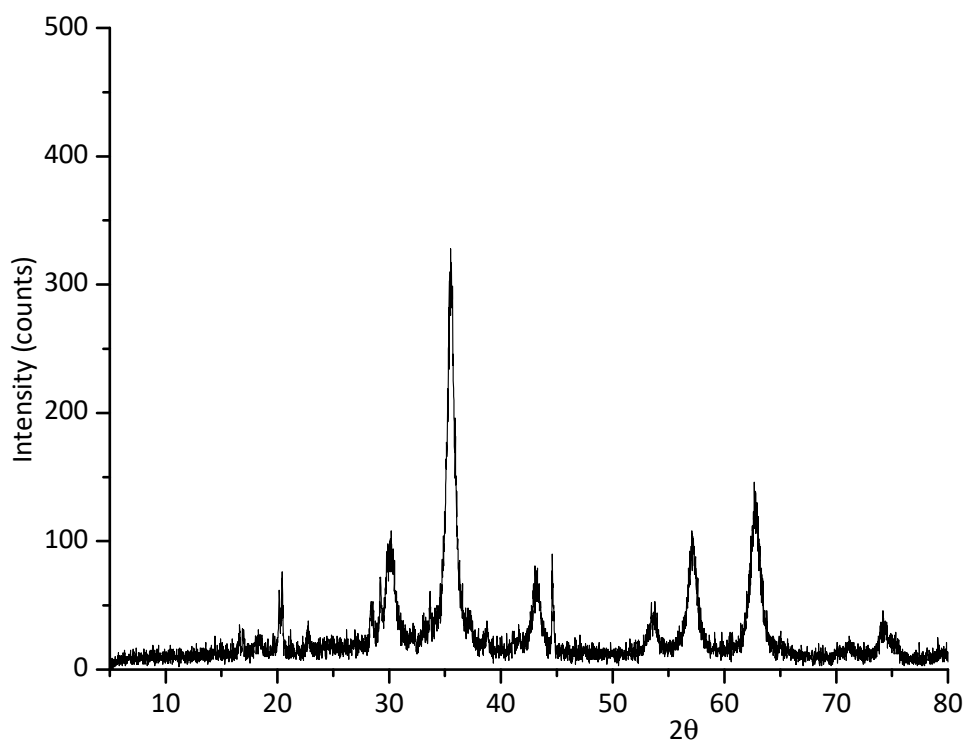
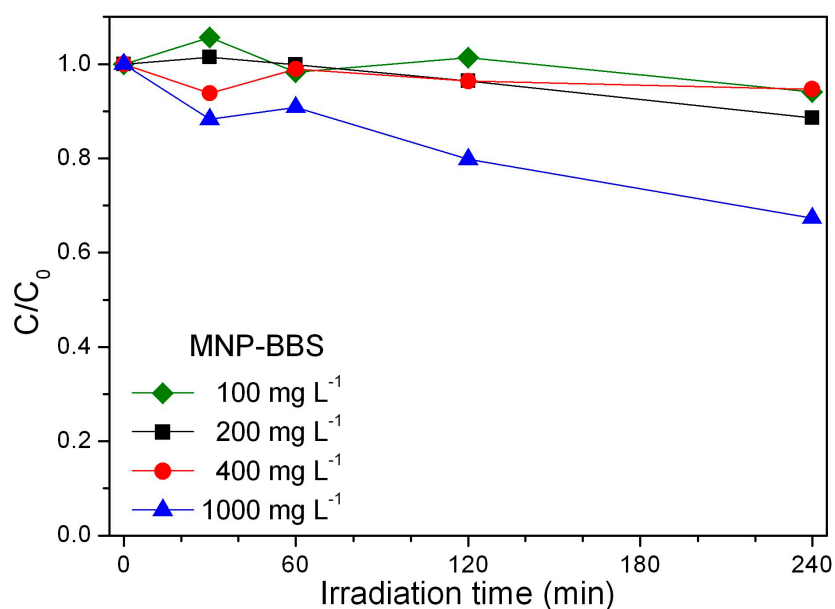


Figure S3. Adsorption isotherm of 77 K N<sub>2</sub>.



**Figure S4.** XRD diffractogram reporting the principal signal of  $\text{Fe}_3\text{O}_4$  and impurities of  $\text{NH}_4\text{NO}_3$  derived from the synthesis procedure.



**Figure S5.** Degradation profiles of phenol ( $10 \text{ mg L}^{-1}$ ) in the presence of different MNP-BBS concentrations.

