Supplementary Information for

Multifunctional Glycerol/Citric Acid Crosslinked Polymer Hydrophilic Gel with Absorptive and Reducing Capacities

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The Scherrer equation (Equation S1) was used to calculate the crystallite size, considering that *L* is the average diameter of the particles, in nanometers, *K* is a constant which depends on the shape of the particles (for spherical particles, K = 0.94), λ is the wavelength of the K α radiation (0.154 nm for Cu), β is the full width at half maximum of the most intense diffraction peak, in radian, and θ is the incidence angle according to the plane.

$$L = \frac{\kappa\lambda}{\beta\cos\theta}$$

Equation S1

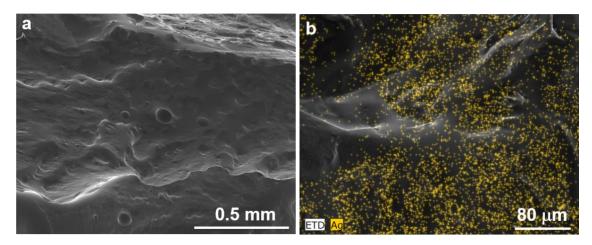


Figure S1. SEM images obtained for the gel after adsorption/reduction of Ag^+ (in AgNO₃ 0.1 mol L⁻¹) with SE (a) and (b) EDS for chemical mapping of Ag.

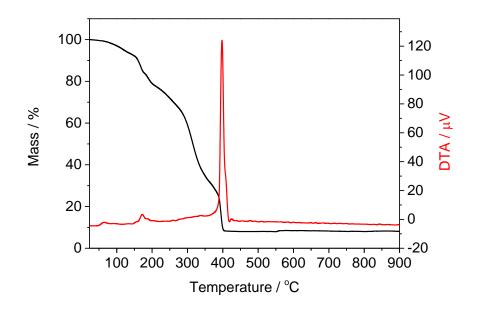


Figure S2. TG and DTA curves obtained in dynamic air atmosphere obtained for the gel after adsorption/reduction of Ag^I (in AgNO₃ 0.1 mol L⁻¹).