Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C

SUPPLEMENTARY INFORMATION

MOKE magnetometry as a probe of surface magnetic impurities in electropolymerized magnetic thin films of the Prussian blue analogue $Fe_3[Cr(CN)_6]_2 \cdot 15\ H_2O$†

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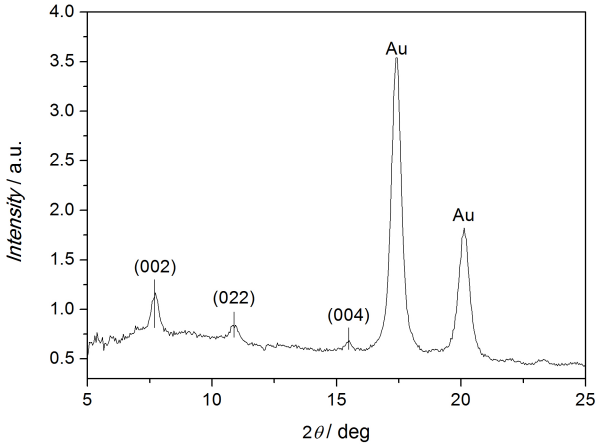

Fig. S1. X-ray diffractogram of a thin film of **1**. The lines correspond to the peaks expected for a cubic lattice of parameter a = 10.59 Å.

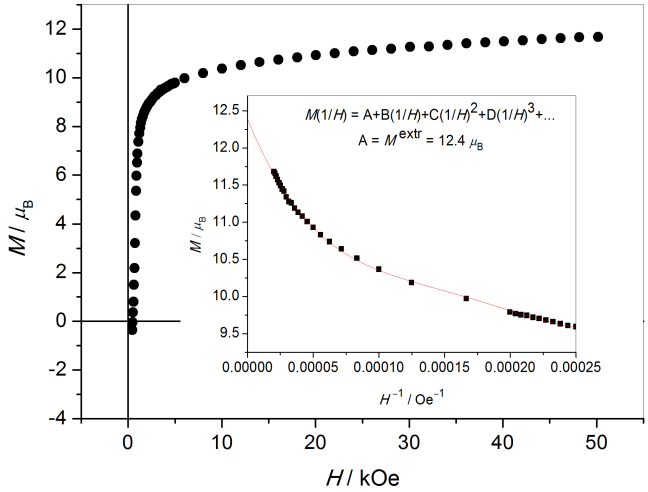

Fig. S2. Field dependence of the magnetization (M) of a thin film of **1** at 2 K. Inset: $M = f(H^{-1})$ plot. The red line indicates the best-fit to a polynomial expansion. The saturated magnetization was calculated from the extrapolation of this curve to $H^{-1} = 0$.

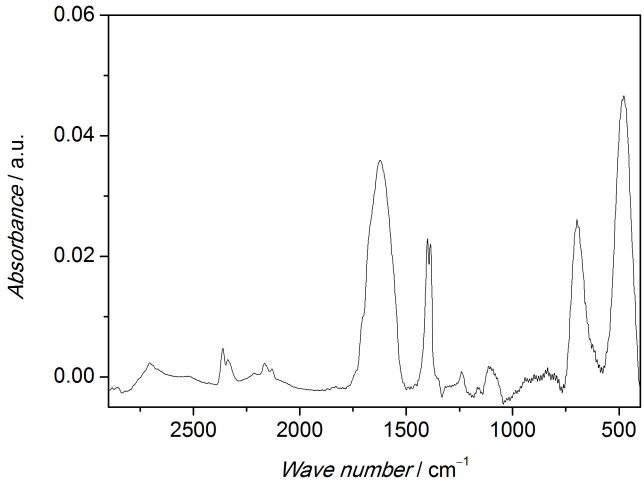

Figure S3. IR spectrum of **2**.

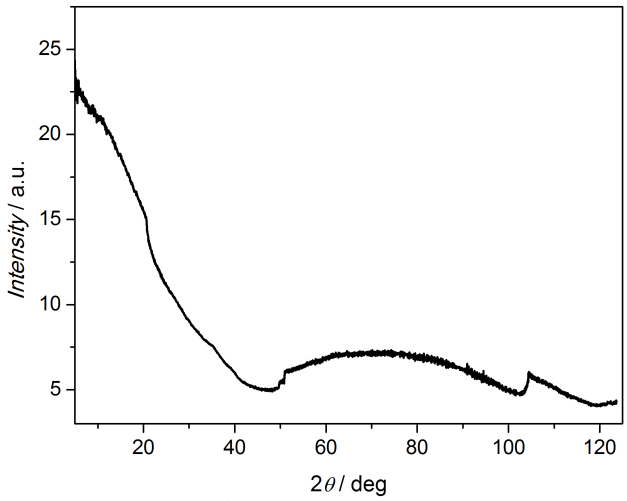

Figure S4. XRD pattern of **2**.

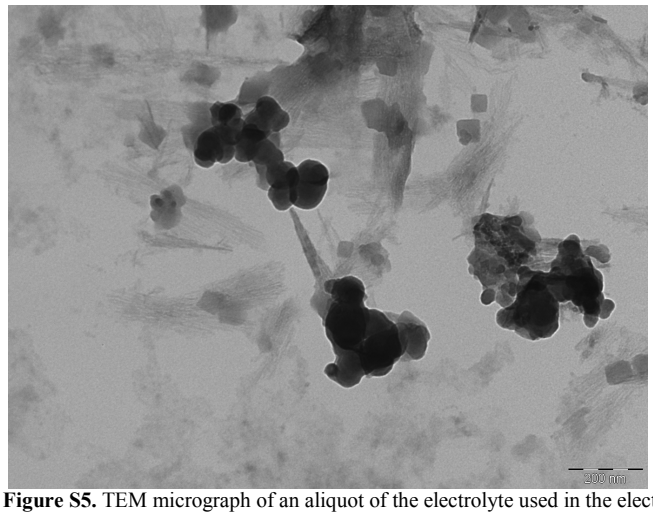

Figure S5. TEM micrograph of an aliquot of the electrolyte used in the electrodeposition of a thin film of **1**.

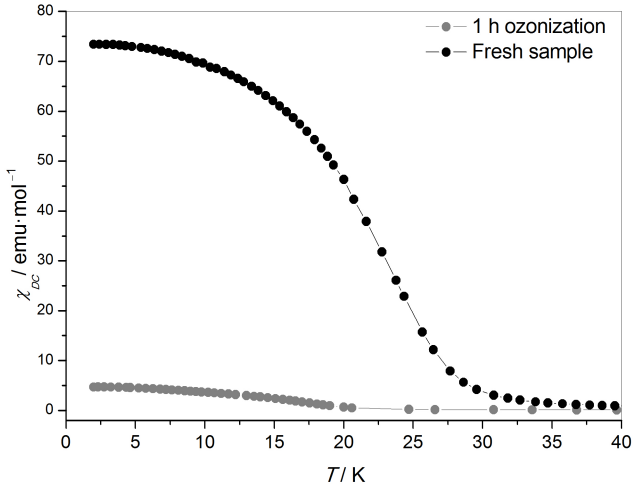

Figure S6. DC magnetic measurements of thin films of **1** before (black circles) and after (grey circles) 1 hour ozone treatment.

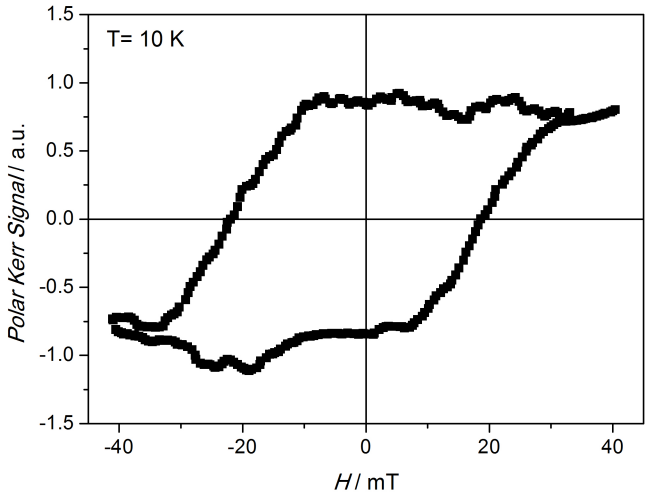

Figure S7. MOKE hysteresis loop of a film of **1** after 1 h ozone treatment. The measurement was performed at 10 K in polar configuration.