

Supplementary material to:

SPIONs Prepared in Air through Improved Synthesis Methodology: the Influence of γ -Fe₂O₃/Fe₃O₄ Ratio and Coating Composition on Magnetic Properties

Joana C. Matos ^{1,2,3,*} M. Clara Gonçalves ^{1,3} Laura C. J. Pereira ² Bruno J. C. Vieira ² João Carlos Waerenborgh ²

¹ Centro de Química Estrutural, Universidade de Lisboa, Av. Rovisco Pais, IST, 1000 Lisboa, Portugal

² Centro de Ciências e Tecnologias Nucleares, Instituto Superior Técnico, Universidade de Lisboa, 2695-066 Bobadela LRS, Portugal

³ Departamento de Engenharia Química, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, IST, 1000 Lisboa, Portugal

* Correspondence: joana.matos@ist.utl.pt; Tel.: +351-218418137

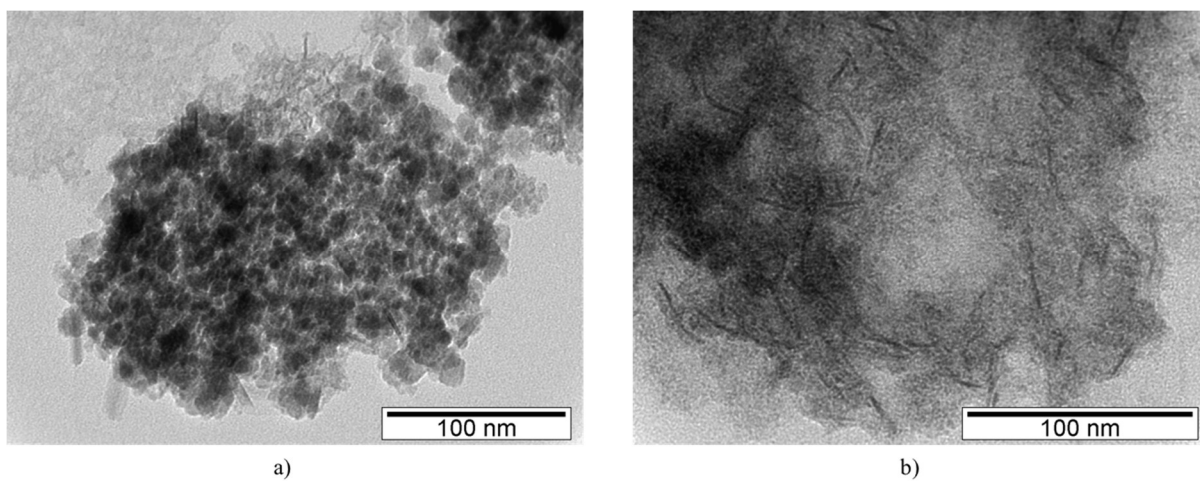


Figure S1: TEM images of coated SPIONs: a) B1.1, b) B2.2.

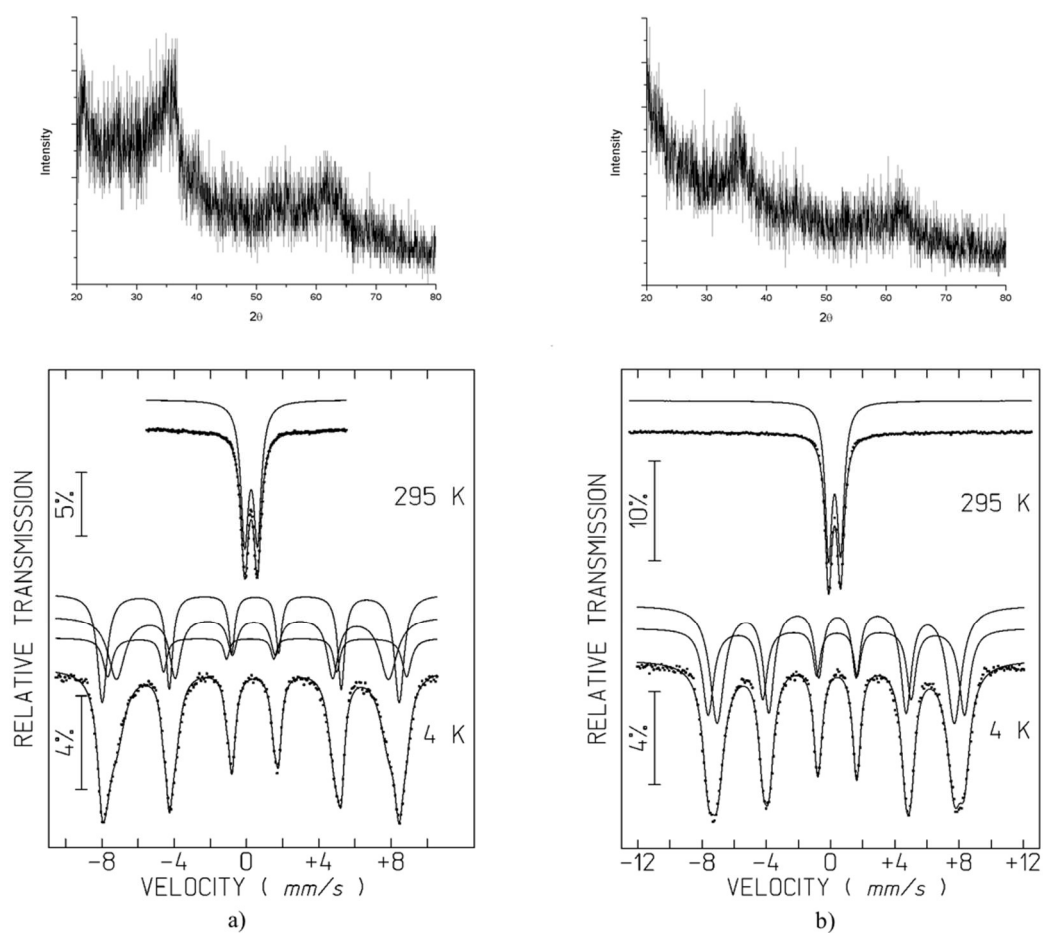
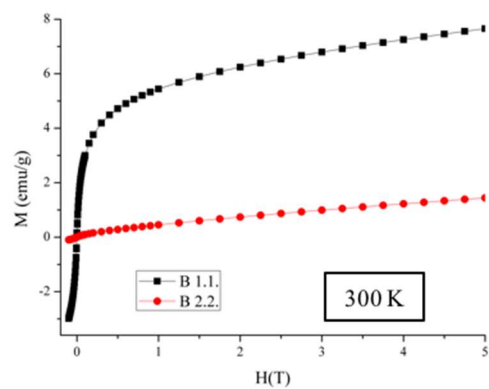
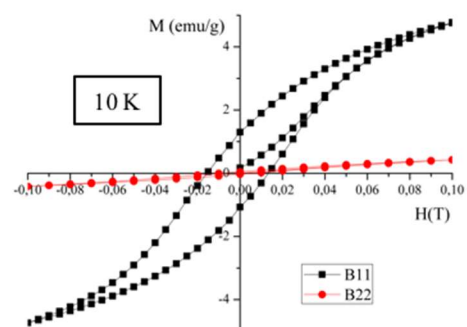


Figure S2: XRD diffractograms and Mössbauer spectra of coated SPIONs (Samples B): a) B 1.1, b) B 2.2.



a)



b)

Figure S3: Saturation magnetization curves at 300 K (a) and 10 K (b) of coated SPIONs (Samples B)