

Electronic supplementary information (ESI)

Dual functionality of ferrocene-based metallopolymers as radical scavengers and nanoparticle stabilizing agents

Nizar B. Alsharif,^a Tibor Halmágyi,^b Mark A. Hempenius,^c Julius G. Vancso,^c
Corinne Nardin^b and Istvan Szilagyi^{*a}

^aMTA-SZTE Lendület Biocolloids Research Group, Department of Physical Chemistry and
Materials Science, Interdisciplinary Research Center, University of Szeged, H-6720 Szeged,
Hungary

^bUniversité de Pau et des Pays de l'Adour, E2S UPPA, CNRS, IPREM, F-64053 Pau, France

^cSustainable Polymer Chemistry, University of Twente, NL-7522NB Enschede, the Netherlands

*Corresponding author. Email: szistvan@chem.u-szeged.hu

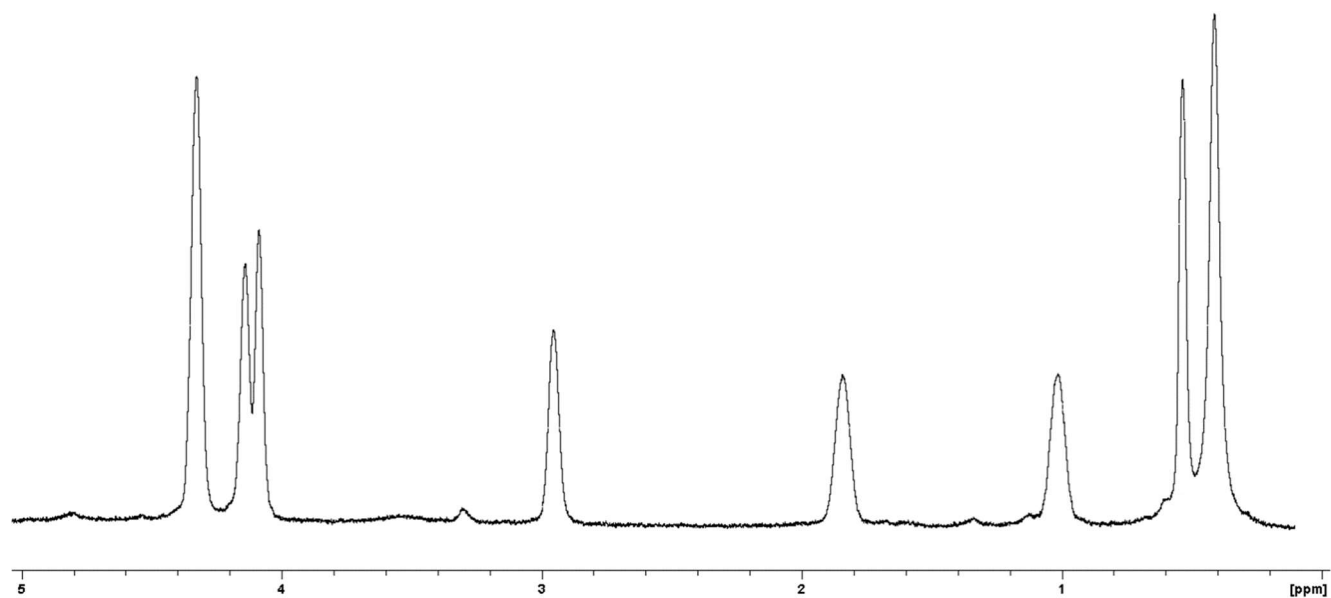


Fig. S1 ^1H NMR spectrum of PFS-I in benzene- d_6 : δ : 0.55 (SiCH_3 , 3H) 1.02 (1-CH_2 , 2H) 1.85 (2-CH_2 , 2H) 2.95 (3-CH_2 , 2H) 4.05-4.55 (Cp, 8H). The peaks at 0.40; 1.35 and 3.30 ppm are solvent residues.

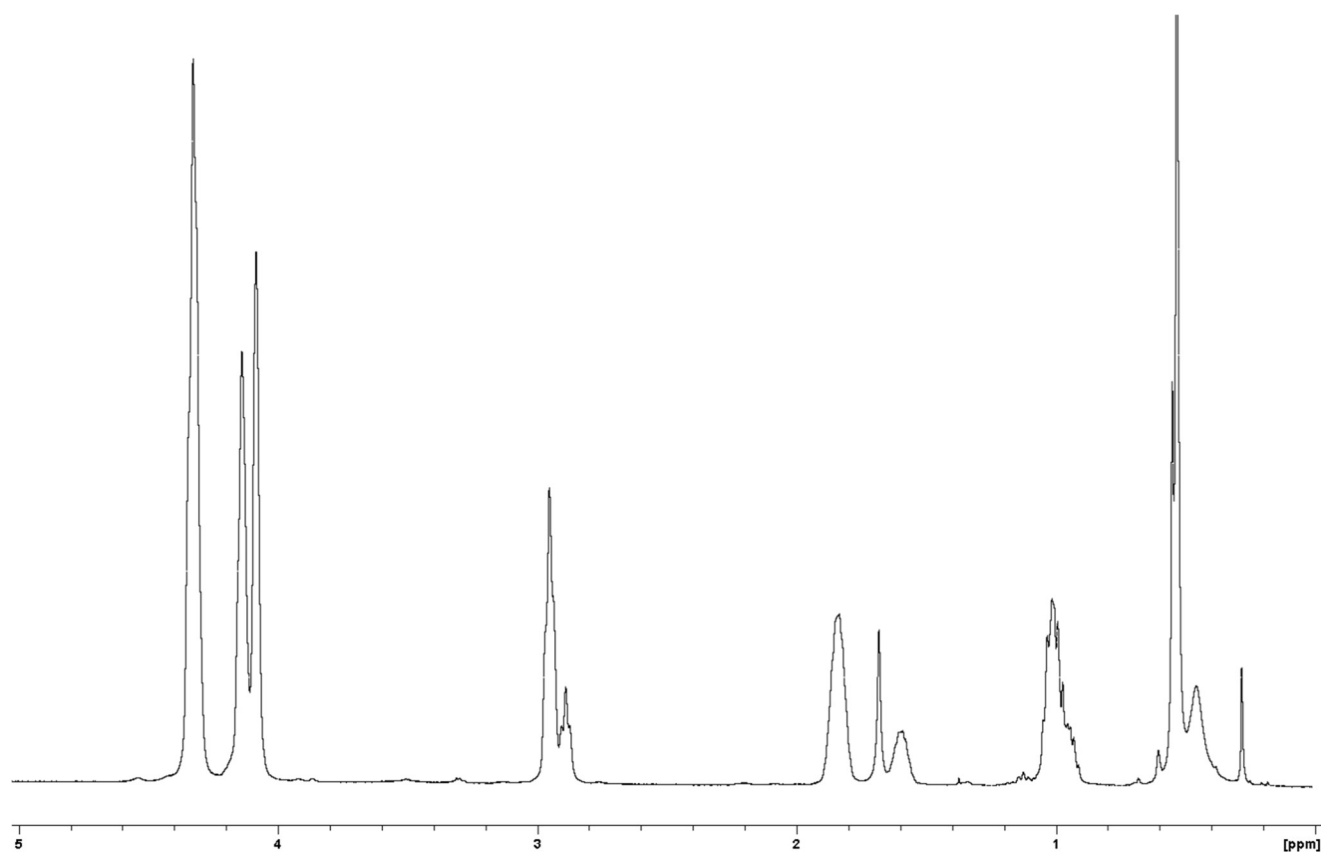


Fig. S2 ^1H NMR spectrum of PFS-I/ N_3 (15 %) in benzene- d_6 : δ : 0.45 (SiCH_3 , 3H) 0.95 (1-CH_2 (N_3), 2H) 1.02 (1-CH_2 (I), 2H) 1.60 (2-CH_2 (N_3) 2H) 1.85 (2-CH_2 (I), 2H) 2.85 (3-CH_2 (N_3), 2H) 2.95 (3-CH_2 (I), 2H) 4.05-4.50 (Cp, 8H). The peaks at 0.30 and 0.55 ppm are solvent residues.

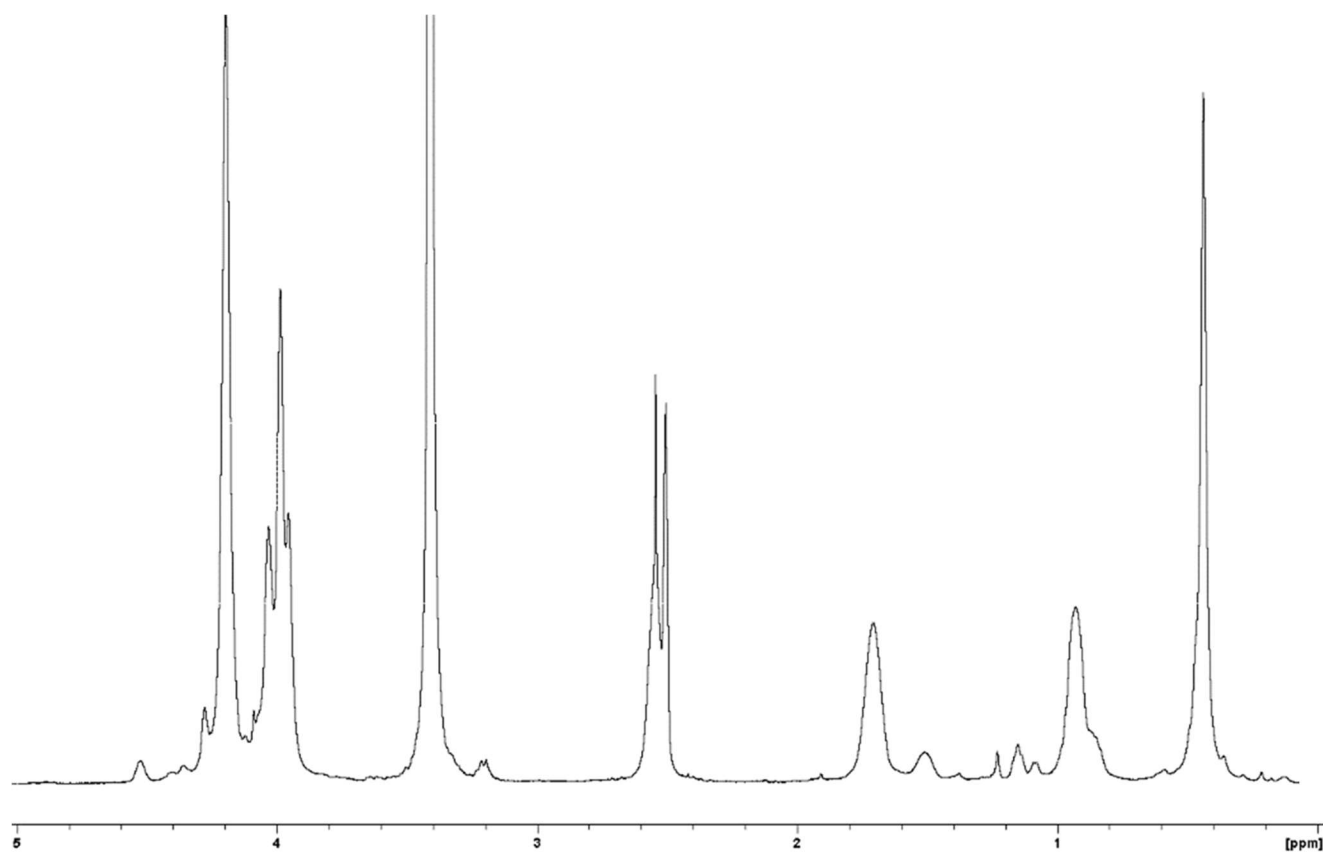


Fig. S3 ^1H NMR spectrum of PFS(-)/ N_3 (15 %) in D_2O : δ : 0.55 (SiCH_3 , 3H) 0.85 (1-CH_2 (N_3), 2H) 0.95 (1-CH_2 (-), 2H) 1.50 (2-CH_2 (N_3) 2H) 1.78 (2-CH_2 (-), 2H) 3.90-4.55 (Cp, 8H). The peaks at 1.10-1.40; 2.55 and 3.20-3.70 ppm are solvent residues. The 3-CH_2 peaks expected at 3.40 ppm are obscured by the solvent residue signal.