

Eric D. Smolensky, Małgorzata Marjanska and Valerie C. Pierre
Responsive Cu(I) Contrast Agent

Supporting Information

A Responsive Particulate MRI Contrast Agent for Copper(I): Quenching of Transverse Relaxivity Upon Induced MION Agglomeration

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SUPPORTING INFORMATION

Selected NMR Spectra

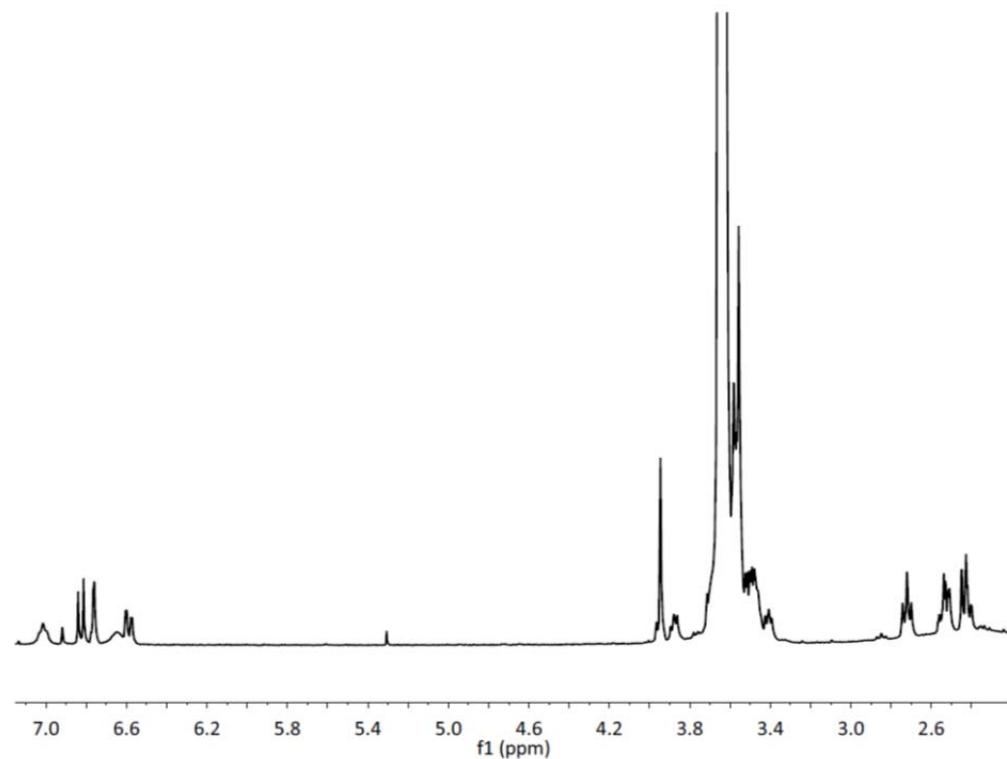


Figure S1. ¹H NMR of Dop-PEG-C≡CH (CDCl_3 , 300 MHz).

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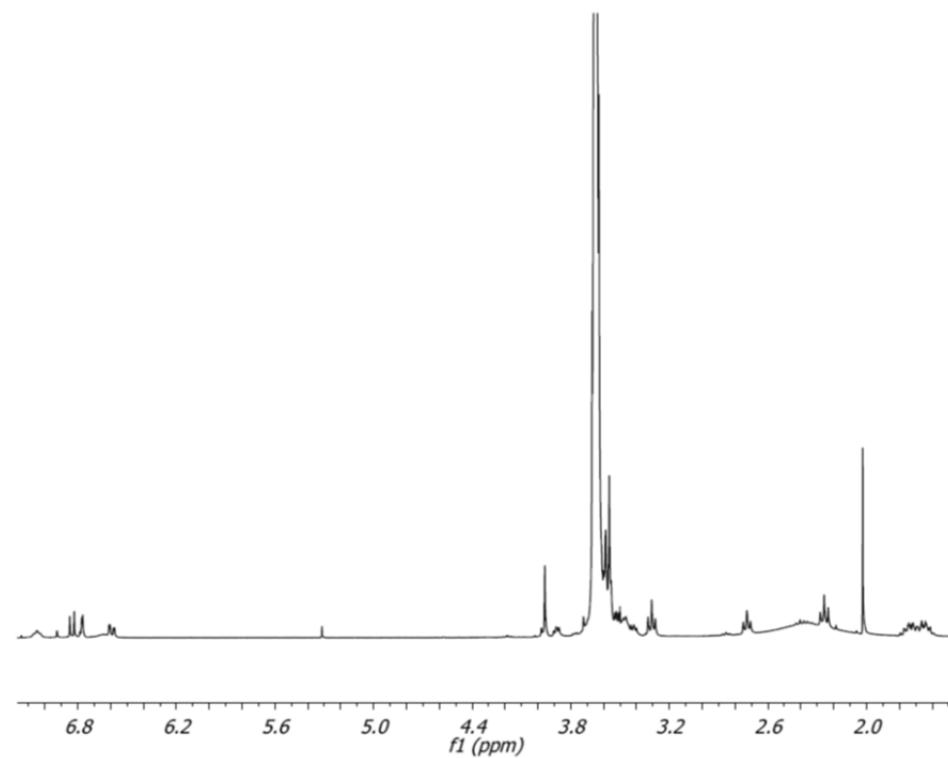


Figure S2. ¹H NMR of Dop-PEG-N₃ (CDCl₃, 300 MHz).

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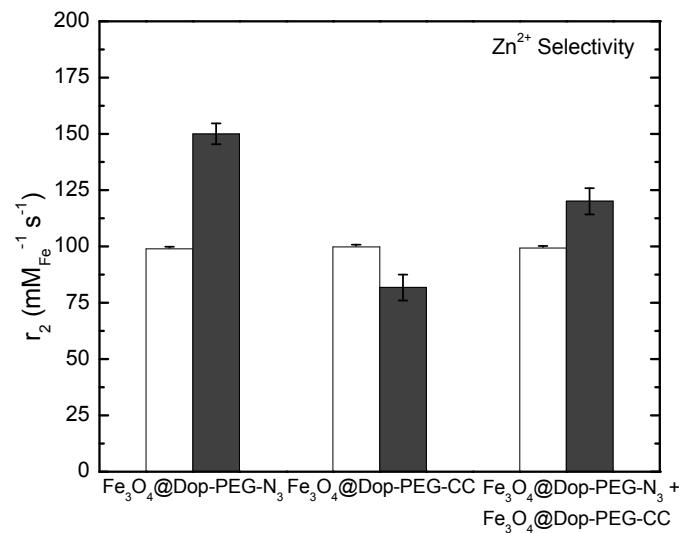


Figure S3. Response of the nanoparticles to Zn(II). White bars represent r_2 in mQ water; black bars represent r_2 after addition of 0.50 mM ZnCl₂. Experimental conditions: water, pH 7, [Fe]_{total} = 120 μM , 1:1 azide:acetylene, 37 °C, 1.5 T. Error bars represent s.d. (n = 3).

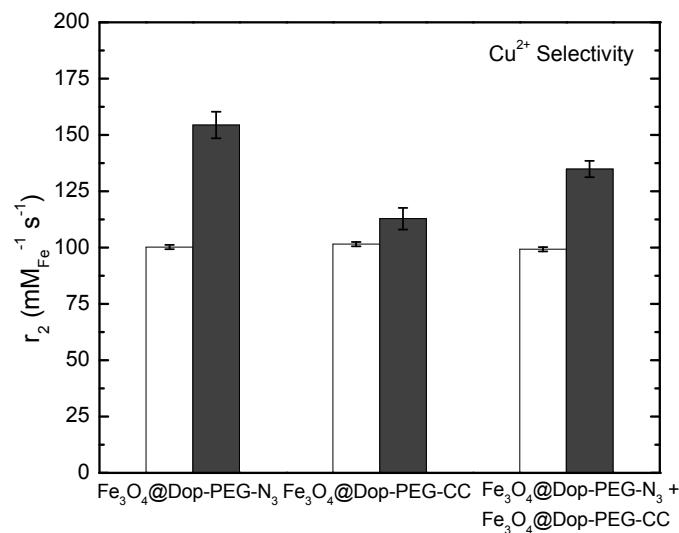


Figure S4. Response of the nanoparticles to Cu(II). White bars represent r_2 in mQ water; black bars represent r_2 after addition of 0.50 mM CuSO₄. Experimental conditions: water, pH 7, [Fe]_{total} = 120 μM , 1:1 azide:acetylene, 37 °C, 1.5 T. Error bars represent s.d. (n = 3).