

## SUPPLEMENTARY INFORMATION

### Synthesis and Photophysical studies of asymmetric zinc phthalocyanine - magnetic nanoparticles conjugates.

Gauta Gold Matlou,<sup>a</sup> Nagao Kobayashi,<sup>b\*</sup> Mutsumi Kimura<sup>b</sup> and Tebello Nyokong<sup>a\*</sup>

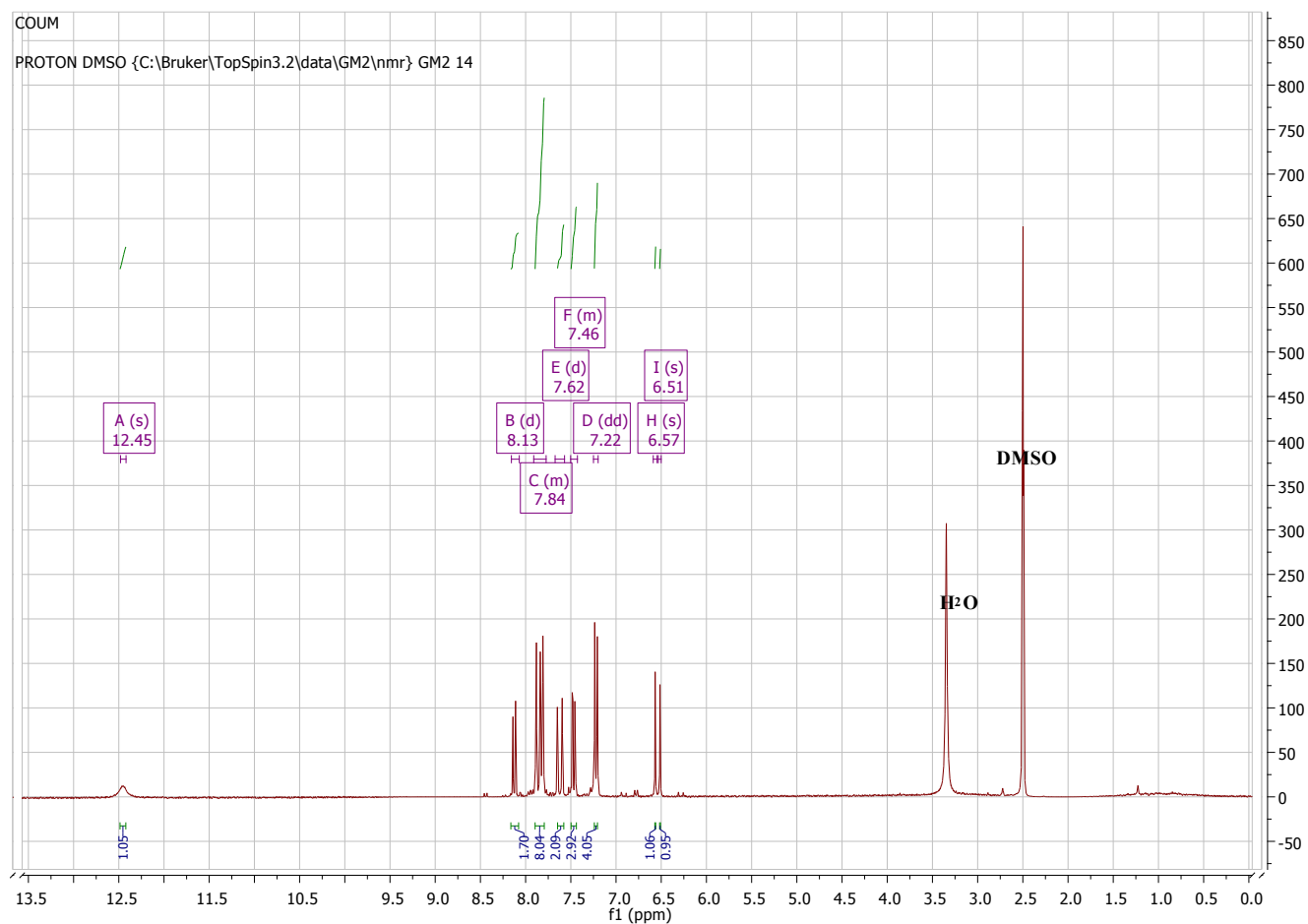


Figure S1: <sup>1</sup>H NMR spectra  
of **6**

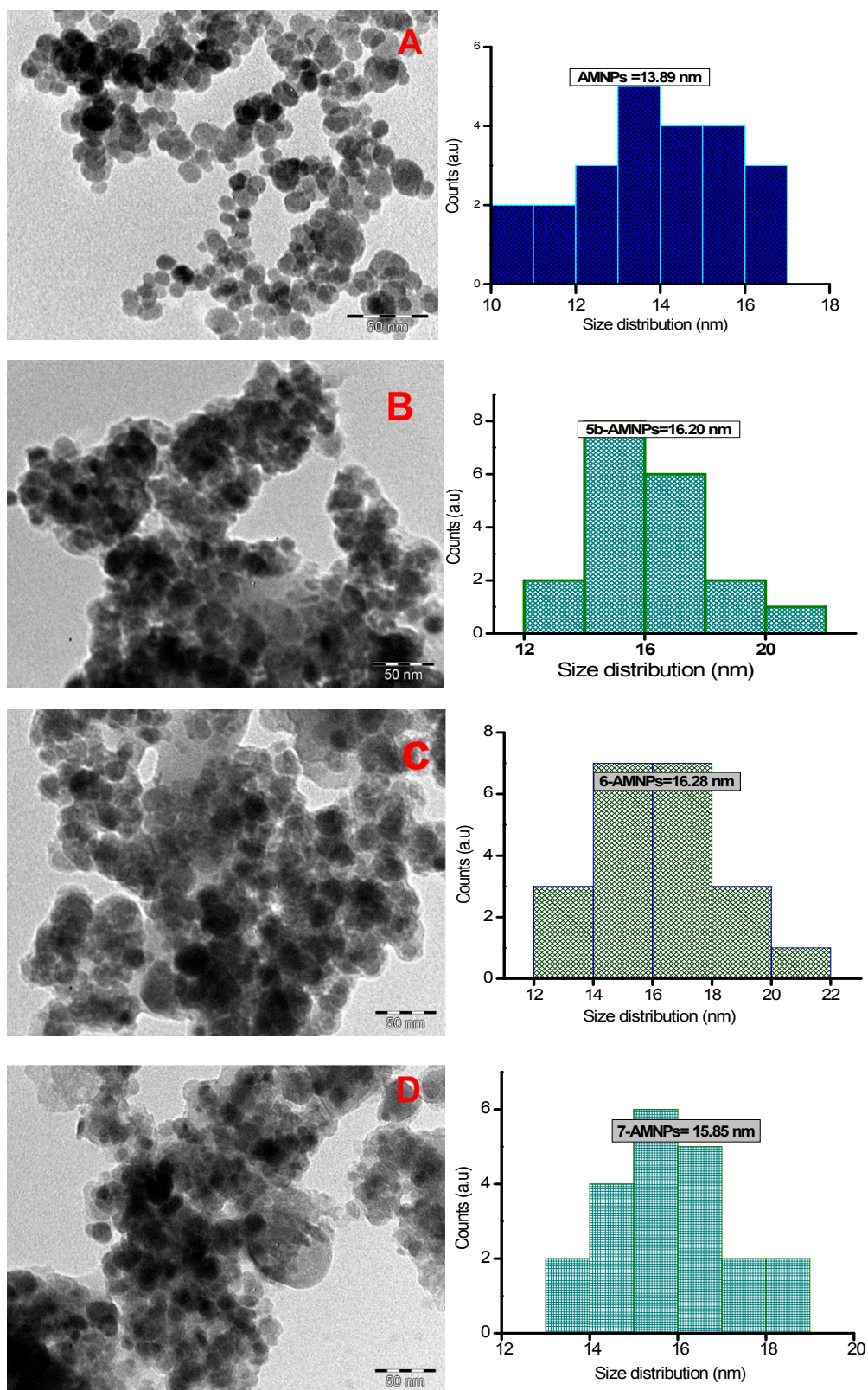


Figure S2: TEM images and corresponding histograms displaying size distributions for A) AMNPs, B) 5-AMNPs, C) 6-AMNPs and D) 7-AMNPs.

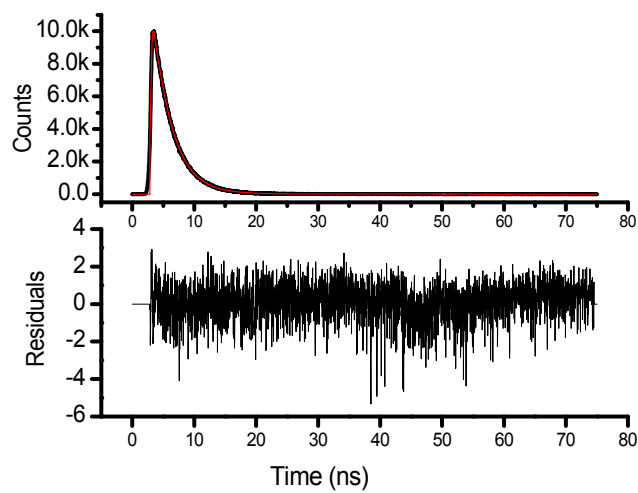


Figure S3: Fluorescence decay curve for complex **5** in DMSO

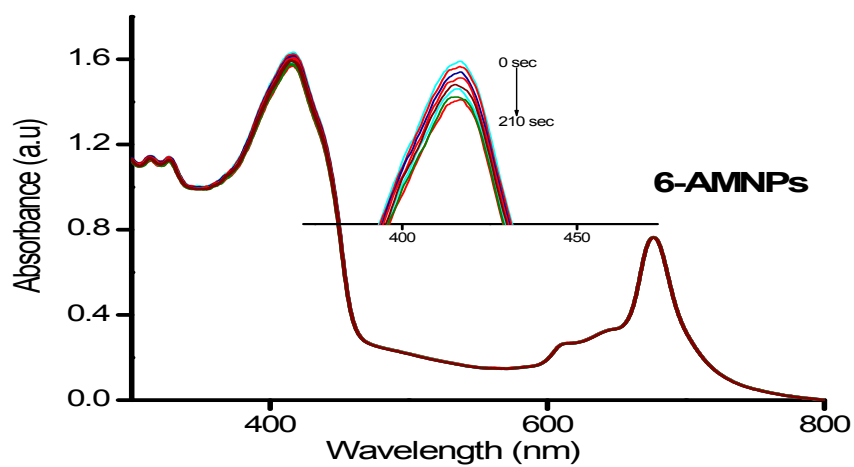


Figure S4. illustration of DPBF photodegradation with **6-AMNPs** as monitored by UV-Vis after irradiation with light at 30 sec intervals.