Electronic Supplementary Material (ESI) for New Journal of Chemistry. This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2017

SUPPLEMENTARY INFORMATION

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

Gauta Gold Matlou, ^a Nagao Kobayashi, ^{b*} Mutsumi Kimura^b and Tebello Nyokong^{a*}



Figure S1: ¹H 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.