Support information

Light driven charge transfer in nano-Fe(III) complexes facilities water oxidation

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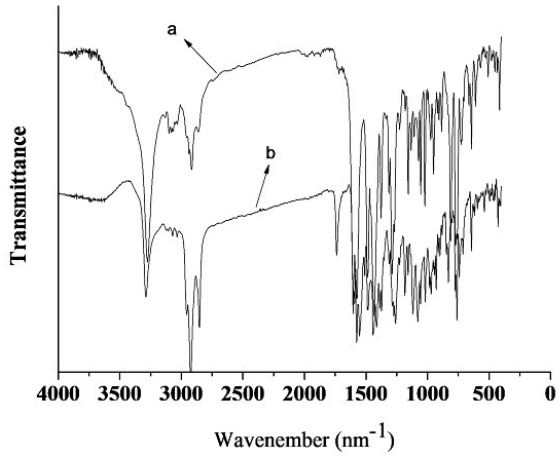

Figure S1. IR spectra of PPM@Fe (a) and BODIPY@Fe_1 (b).

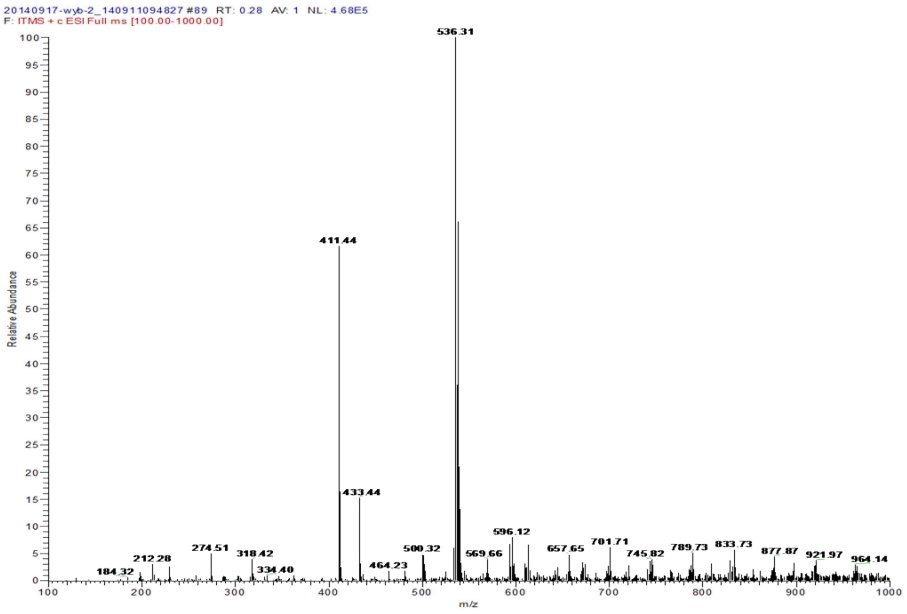

Figure S2. MS of PPM@Fe in MeCN. The main peak at m/z=536.31 corresponds to $[(PPMdpa)Fe(Cl)_2]^+$, indicating the ratio of PPMdpa : Fe in PPM@Fe is 1:1. The peak at m/z = 411.44 corresponds to $[(PPMdpa)H]^+$.

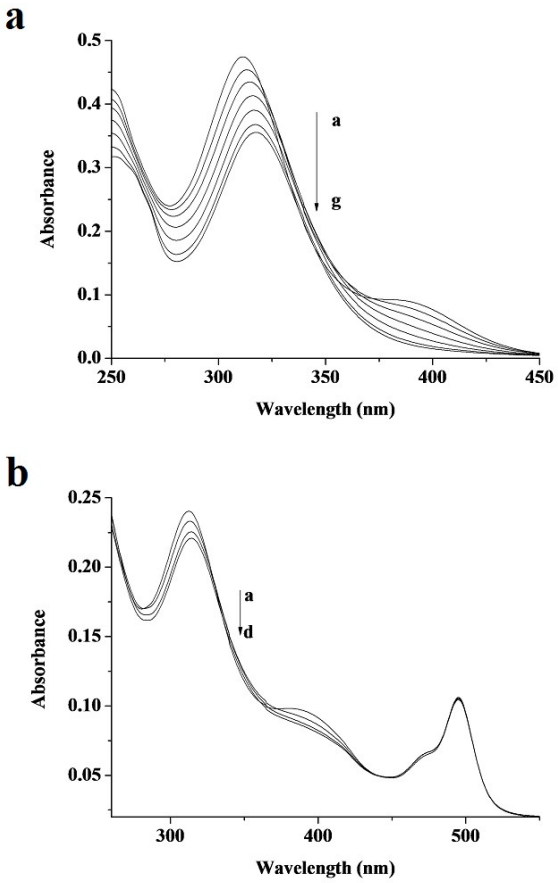

Figure S3. a) UV-vis absorption spectra of PPM@Fe (20 μM, MeCN) in the presence of various amount of H_2O (a – g, C_{H2O} = 0, 0.28, 0.56, 0.83, 1.1, 1.39, 1.67 M). b) UV-vis absorption spectra of BODIPY@Fe (10μM, MeCN) in the presence of various amount of H_2O (a – d, C_{H2O} = 0, 0.56, 1.11, 1.67 M).