

Supplementary Material (ESI) for New Journal of Chemistry
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***In situ* Chemical Formation of Iron Phthalocyanine (FePc)**

Monolayer On the Surface of Magnetite Nanoparticles

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Electronic Supplementary Information

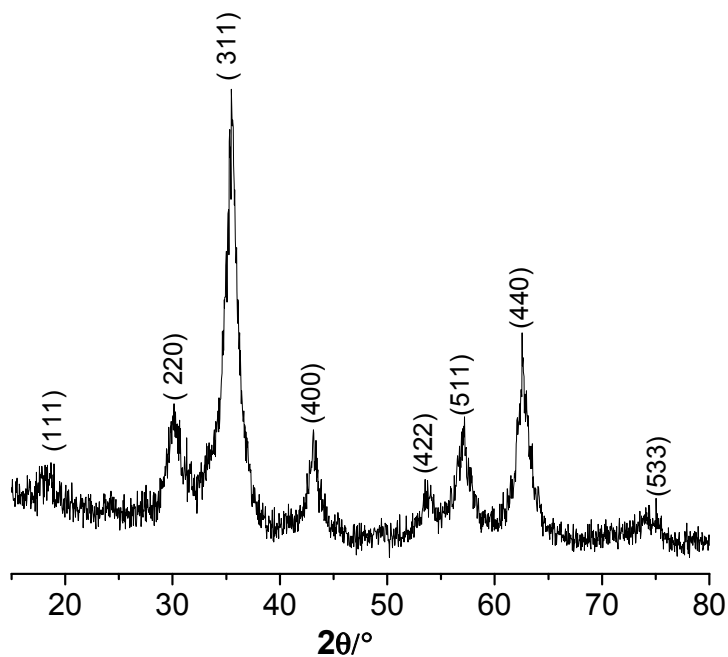


Fig. 1 Powder X-ray diffraction pattern of the Fe₃O₄ NPs.

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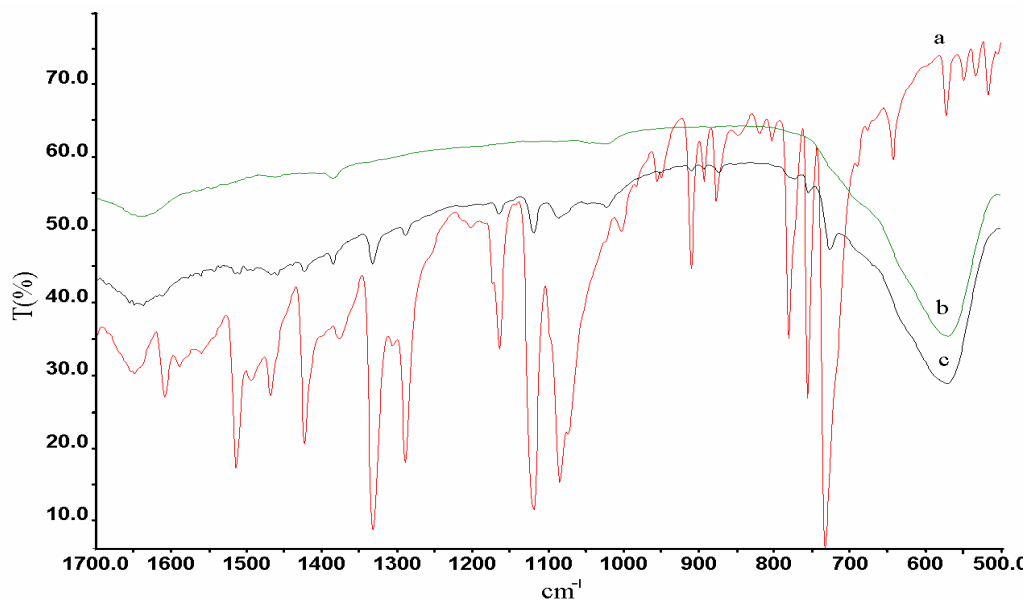


Fig. 2 FTIR spectra of (a) the neat FePc, (c) the Fe₃O₄ NPs coated by FePc through physical method, and (b) after being washed by DMF under sonication for physical-method-derived FePc@ Fe₃O₄.

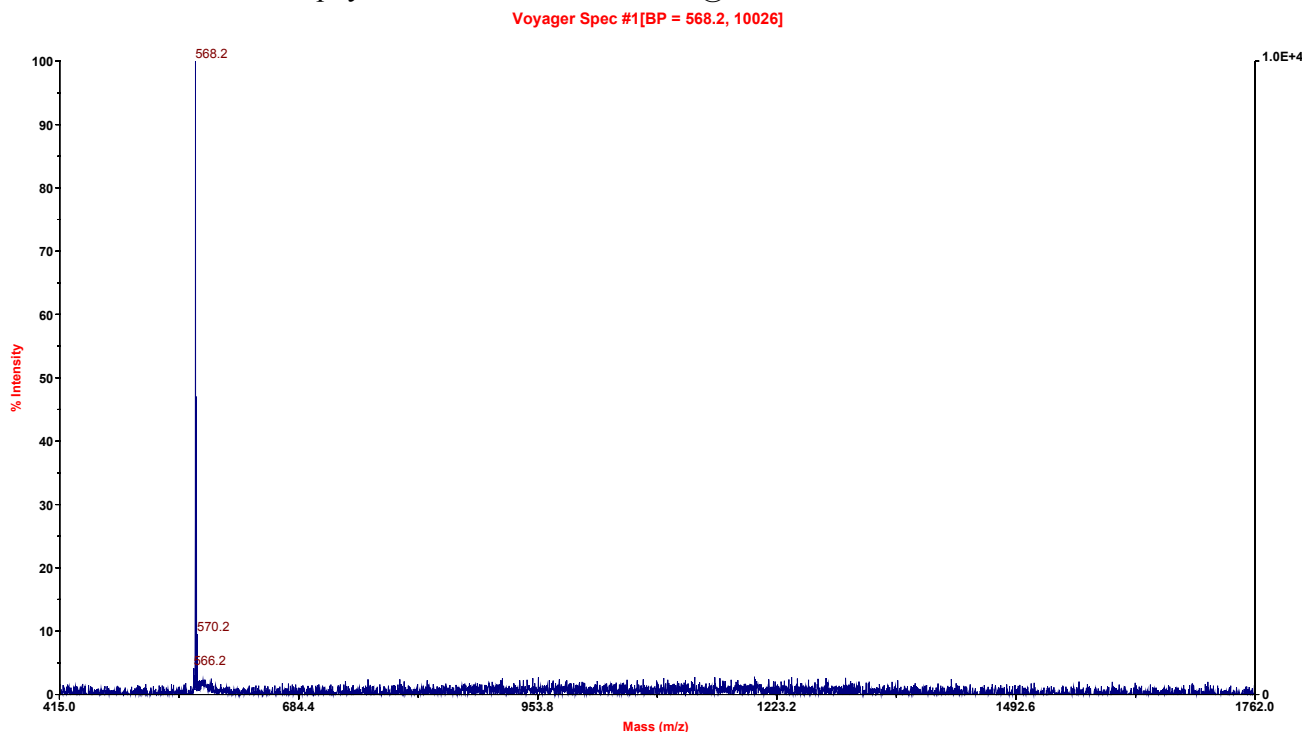


Fig. 3 Mass spectrometry (SATURN 2000) of FePc (after dissolving the FePc@Fe₃O₄ nanoparticle core in HCl). Peak positions of molecular ions is consistent exactly with the molecular weight of FePc, indicating the *in situ* formation of iron phthalocyanine.