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Correction: Dendrimeric magnetic nanoparticle cores with Co-phthalocyanine tags and their application in the synthesis of tetrahydrobenzo[*b*]pyran derivatives

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Correction for 'Dendrimeric magnetic nanoparticle cores with Co-phthalocyanine tags and their application in the synthesis of tetrahydrobenzo[*b*]pyran derivatives' by Mohamad Ali Zolfigol *et al.*, *New J. Chem.*, 2016, 40, 5071–5079.

The structure of the product is incorrect in Scheme 4 and in the table of contents image. The correct Scheme 4, showing the correct structure, is provided below.



Scheme 4 ACoPc-MNP catalyzed synthesis of tetrahydrobenzo[*b*]pyran derivatives.

The y-axis labels are incorrect in Fig. 2. The correct Fig. 2 is provided below.

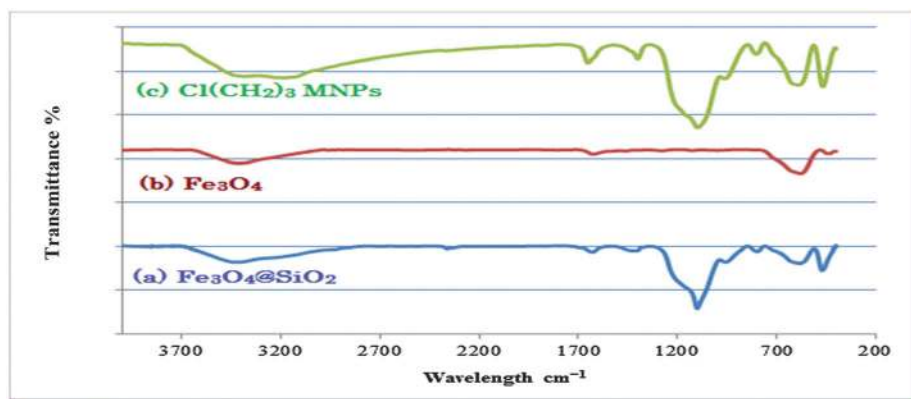


Fig. 2 FT-IR spectra of the supporting production process of (a) Fe₃O₄@SiO₂, (b) Fe₃O₄, and (c) Cl(CH₂)₃MNPs.

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In Fig. 3, the y-axis is incorrectly labelled as “Absorbance” instead of “Transmittance”. The correct Fig. 3 is shown below.

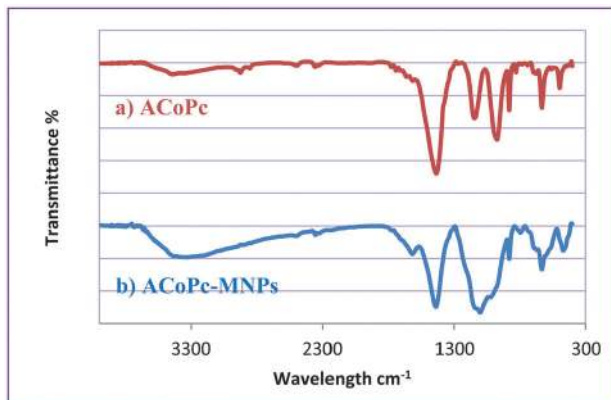


Fig. 3 FT-IR spectra of (a) ACoPc and (b) ACoPc-MNPs.

In Fig. 4, the y-axis is incorrectly labelled as “Absorbance” instead of “Transmittance”. The correct Fig. 4 is shown below.

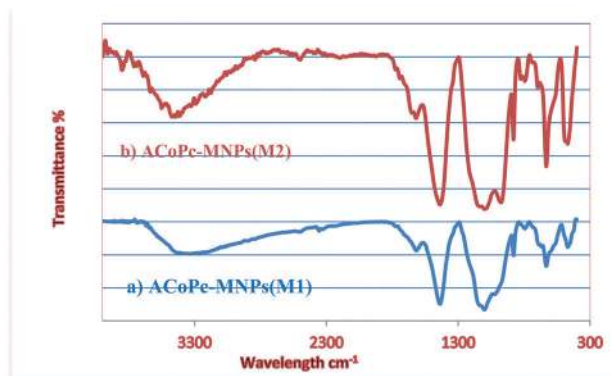


Fig. 4 FT-IR spectra for comparison of the synthesized catalyst by two methods. (a) Synthesis of the catalyst by a one-pot process by refluxing Fe₃O₄@SiO₂, CIMNPs and ACoPc (method 1); (b) synthesis of the catalyst in two steps (method 2).



The y-axis labels are incorrect in Fig. 6. The correct Fig. 6 is shown below.

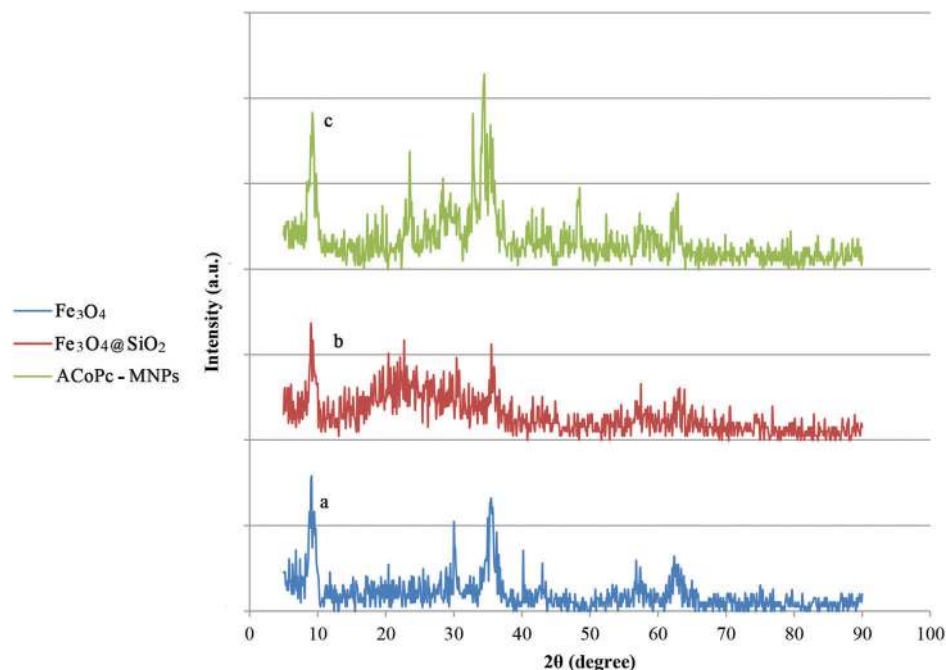


Fig. 6 XRD diffraction pattern of (a) Fe₃O₄, (b) Fe₃O₄@SiO₂ and (c) ACoPc-MNPs.

In the Fig. 11 caption, the compound name is incorrect. Fig. 11 and the correct caption are shown below.

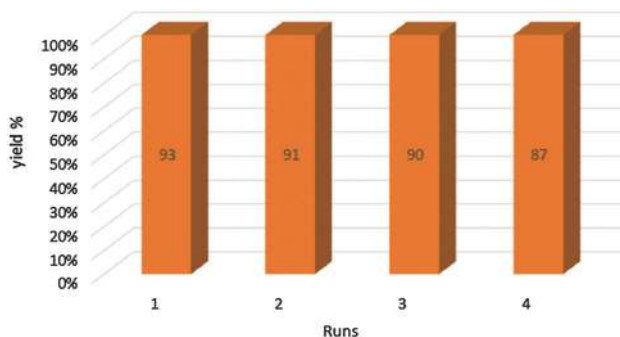


Fig. 11 The catalytic activity of ACoPc-MNPs in four cycles for the synthesis of 2-amino-4-(2,5-dimethoxyphenyl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carbonitrile.

The incorrect compound name is provided in the first sentence of the final paragraph on page 5076. This sentence should read:

To compare the efficacy of the ACoPc-MNP catalyst with that of amino phthalocyanine and Fe₃O₄@SiO₂ for the synthesis of 2-amino-4-(4-chlorophenyl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carbonitrile, we have presented the results obtained with the three mentioned catalysts in the condensation reaction of 4-chlorobenzaldehyde, dimedone and malononitrile in Table 4.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

