

Supplementary data

Design and Development of Novel Cellulose/ γ -Fe₂O₃/Ag Nanocomposite: A Potential Green Catalyst and Antibacterial Agent

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Supplementary data

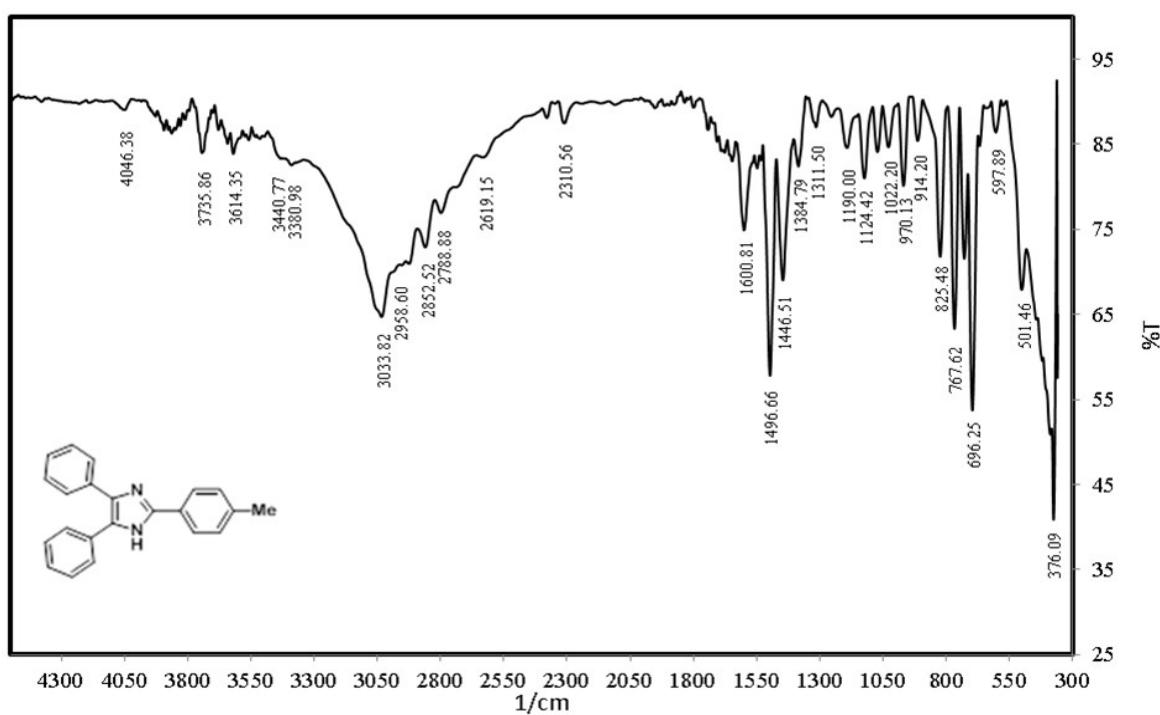


Fig. 1S. FT-IR spectra of 4,5-diphenyl-2-p-tolyl-1*H*-imidazole (**4c**)

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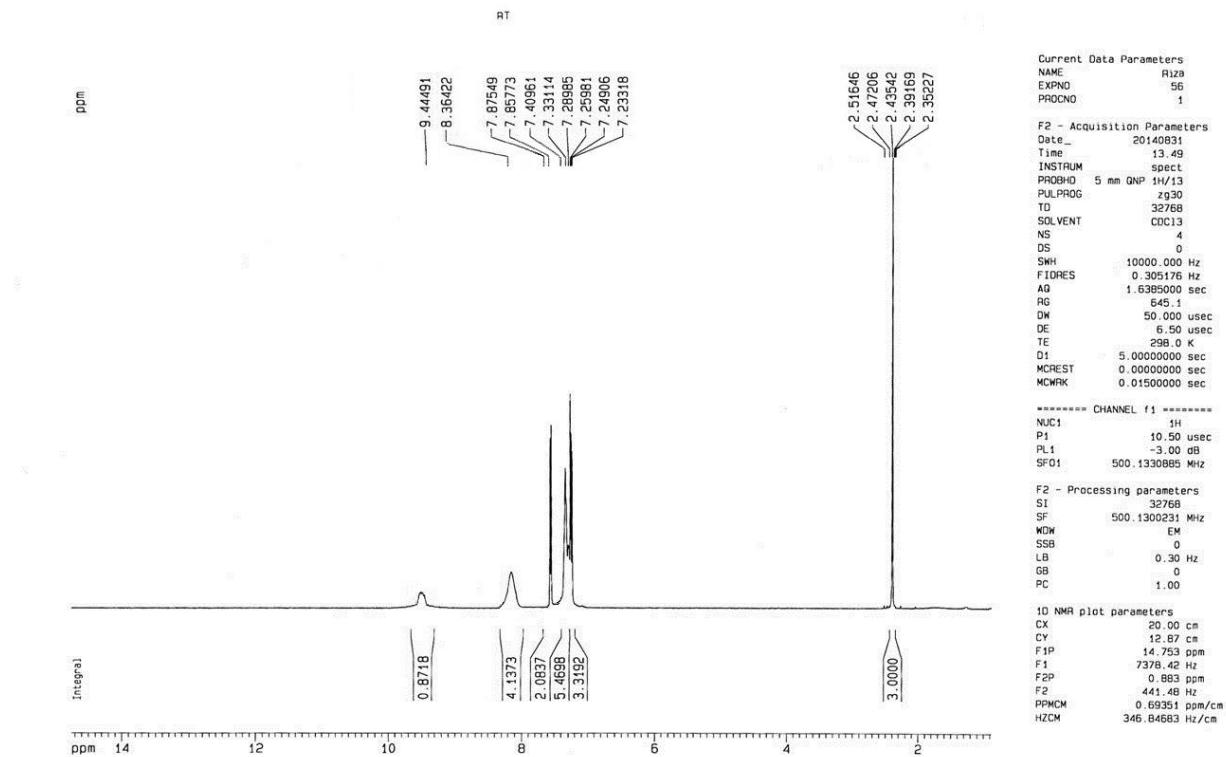


Fig. 2S. ^1H NMR spectra of 4,5-diphenyl-2-p-tolyl-1 H -imidazole (**4c**)

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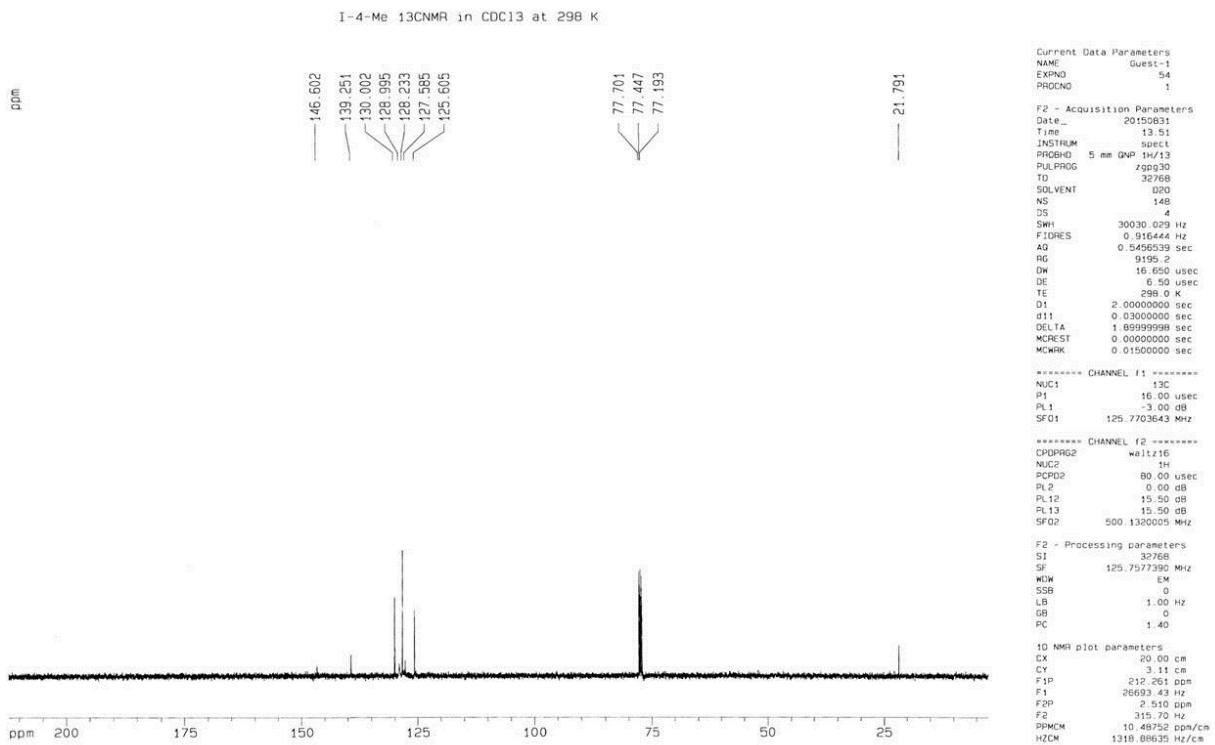


Fig. 3S. ^{13}C NMR spectra of 4,5-diphenyl-2-*p*-tolyl-1 *H*-imidazole (**4c**)

Supplementary data

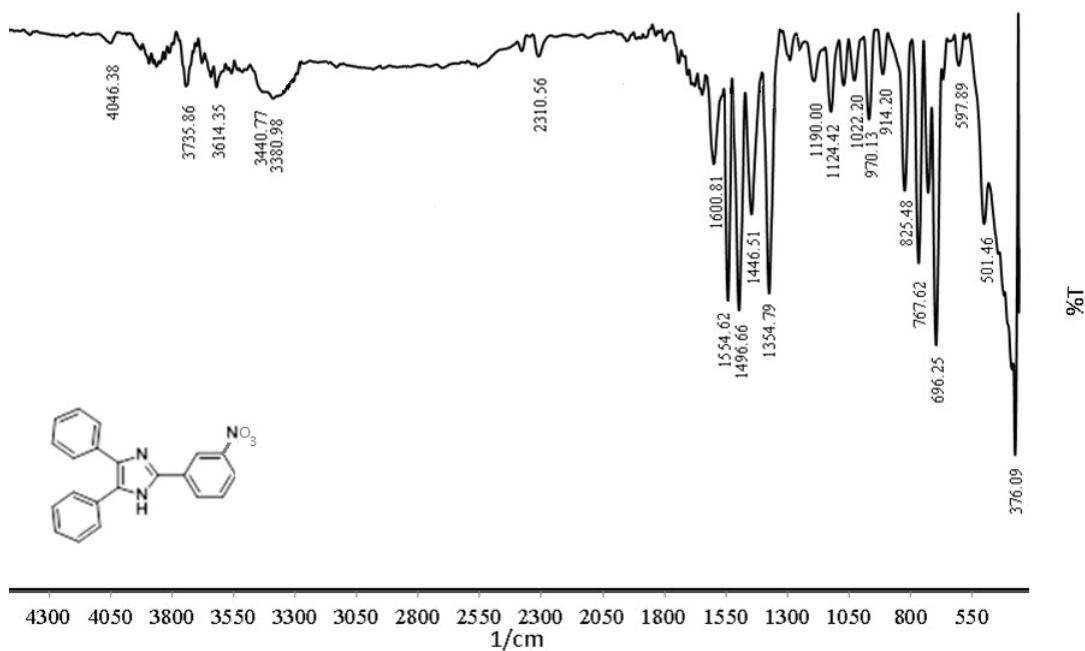


Fig. 4S. FT-IR spectra of 4,5-diphenyl-2-3-nitrophenyl-1 *H*-imidazole (**4g**)

Supplementary data

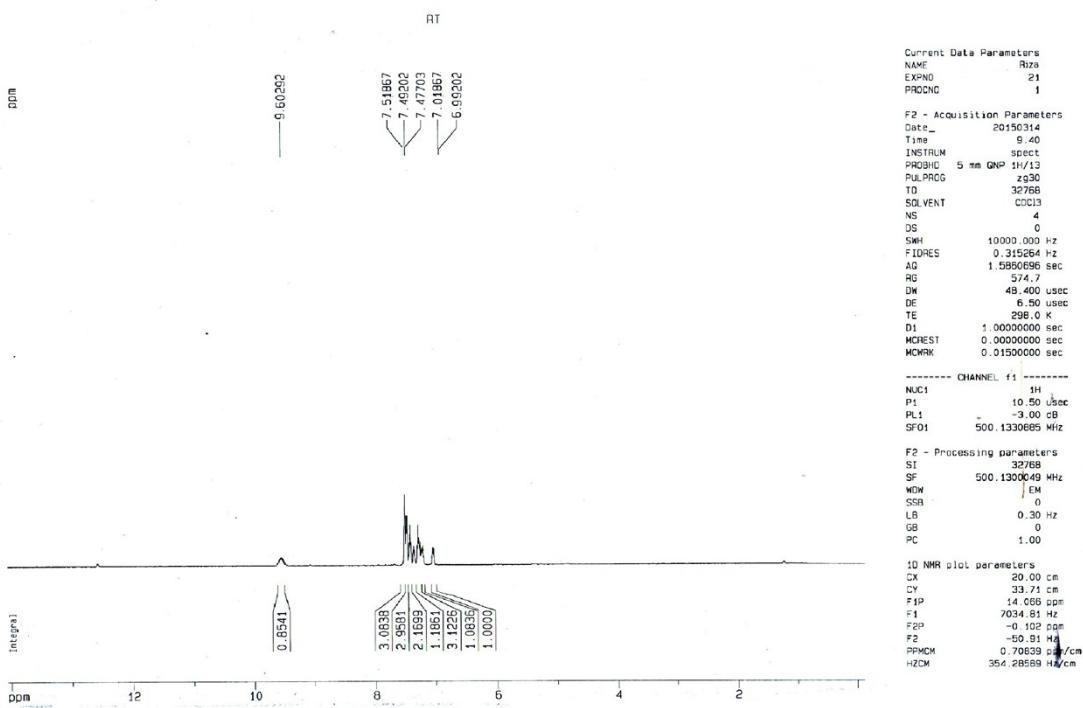


Fig. 5S. ^1H NMR spectra of 4,5-diphenyl-2-3-nitrophenyl-1 *H*-imidazole (**4g**)

Supplementary data

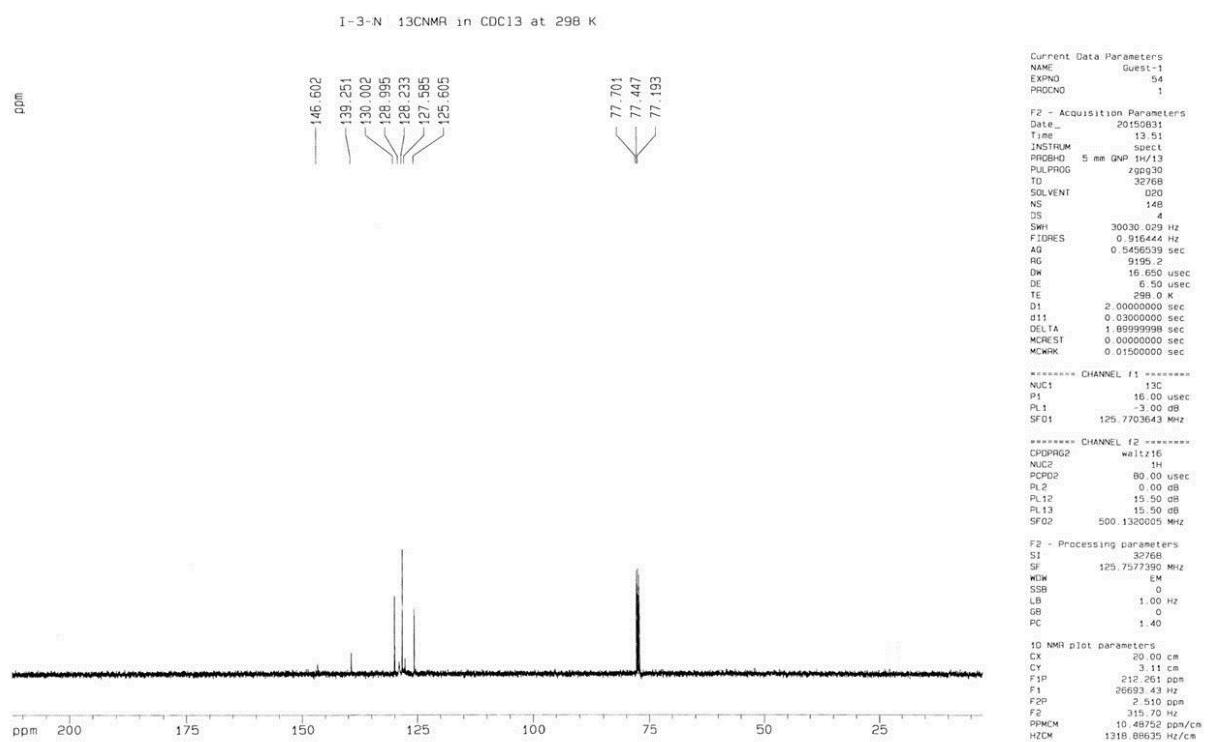


Fig. 6S. ¹³C NMR spectra of 4,5-diphenyl-2-3-nitrophenyl-1 *H*-imidazole (**4g**)

Supplementary data

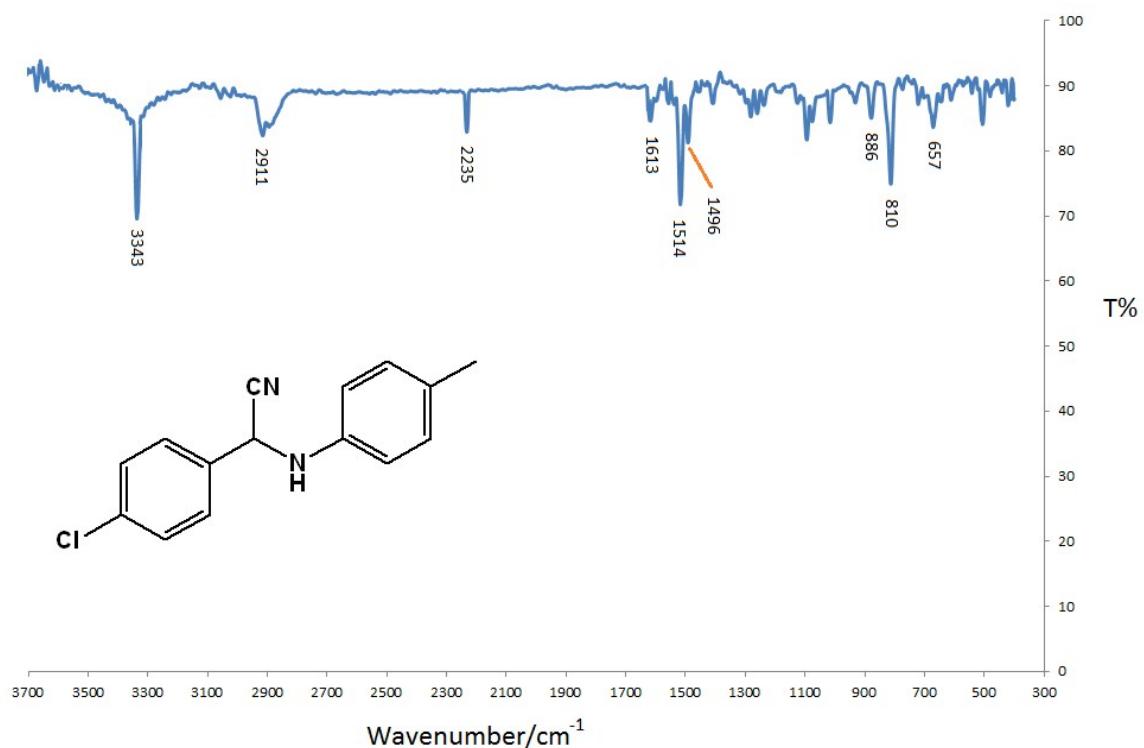


Fig. 7S. FT-IR spectra of 2-(4-tolylamino)-2-(4-chlorophenyl) acetonitrile (**8e**)

Supplementary data

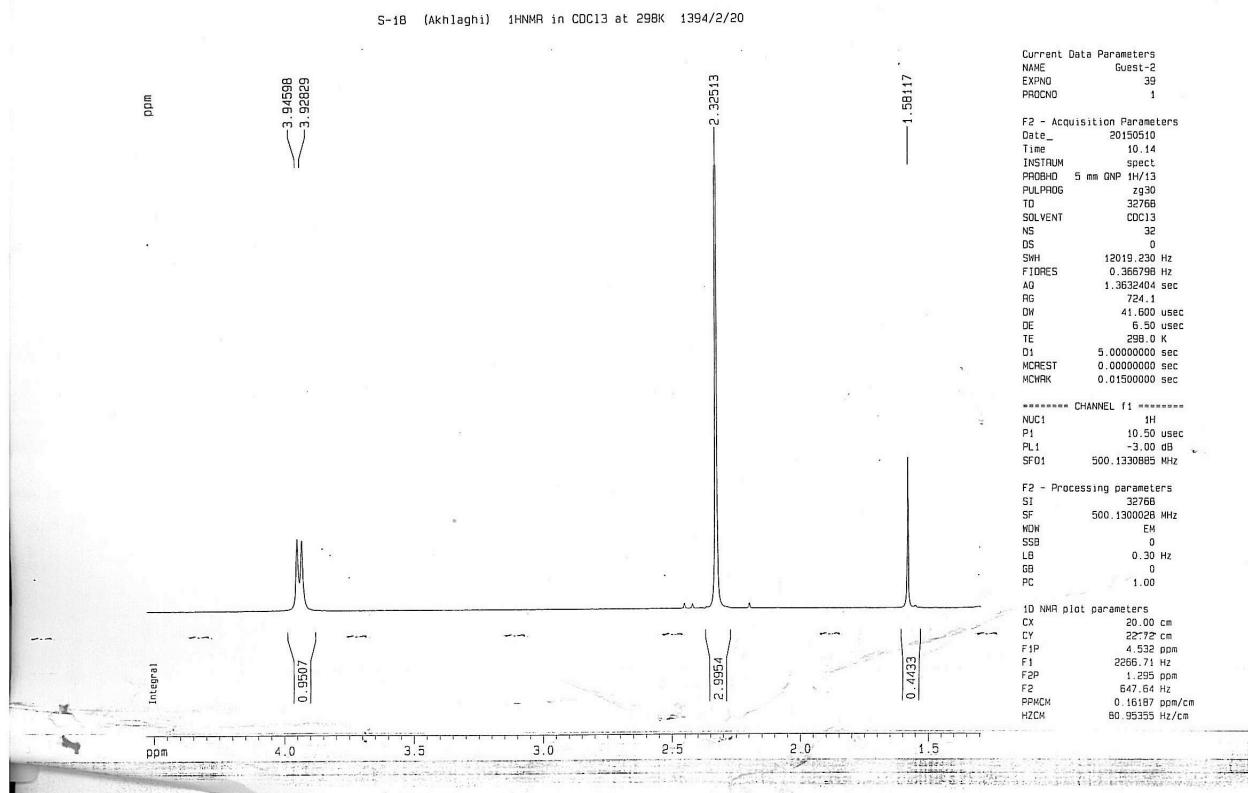


Fig. 8S. ¹H NMR spectra of 2-(4-tolylamino)-2-(4-chlorophenyl) acetonitrile (**8e**)

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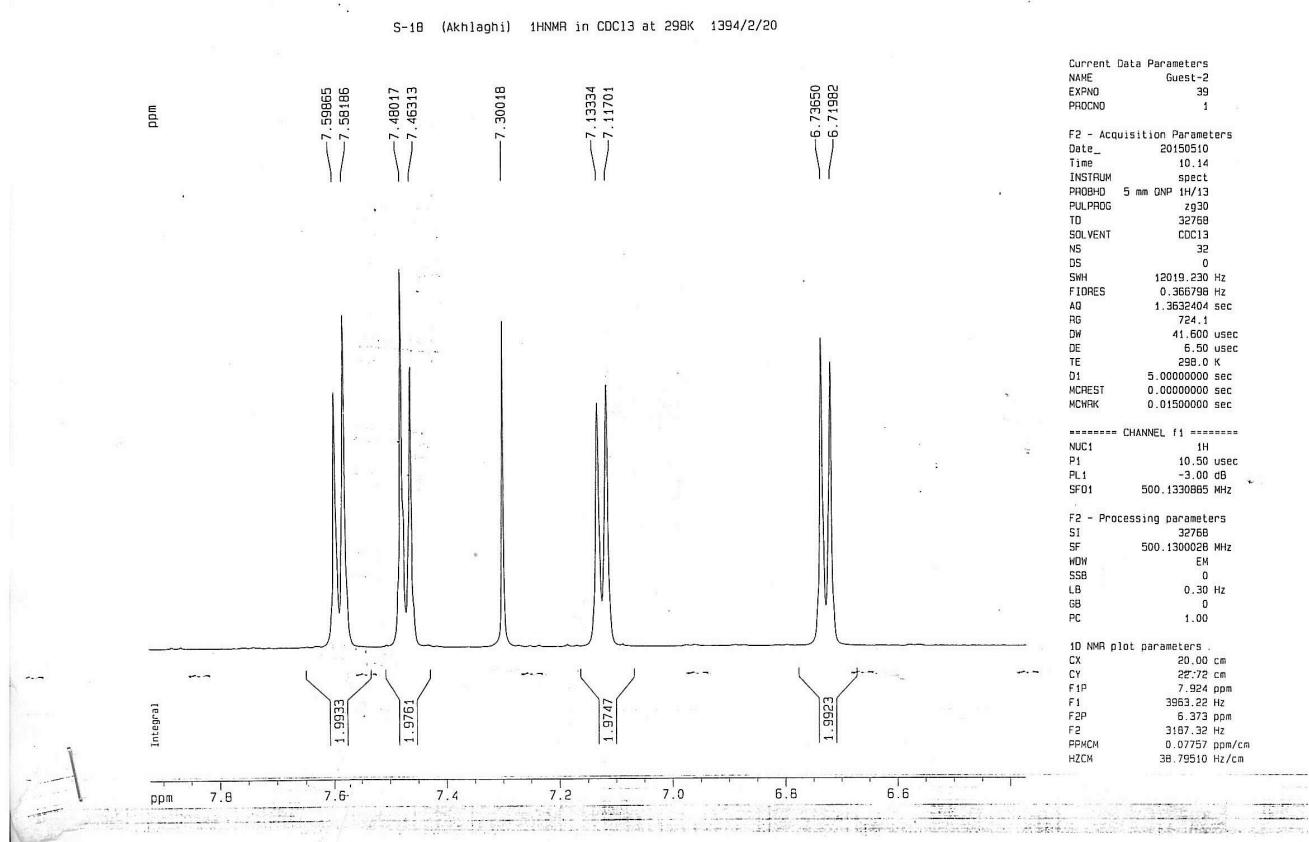
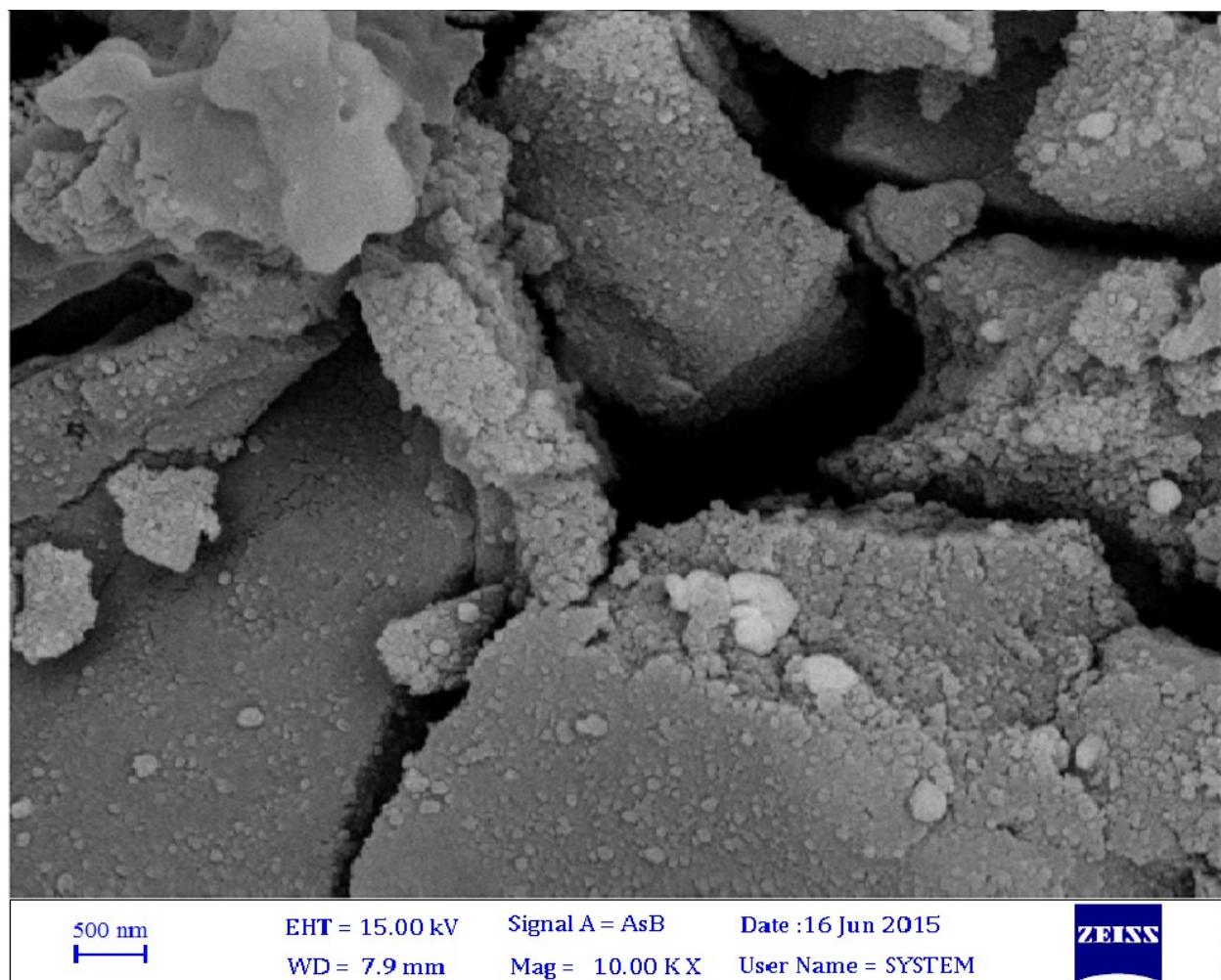


Fig. 9S. Expanded ¹H NMR spectra of 2-(4-tolylamino)-2-(4-chlorophenyl) acetonitrile (**8e**)

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1.4. FE- SEM images of the cellulose/ γ -Fe₂O₃/Ag nanocomposite



500 nm

EHT = 15.00 kV

Signal A = AsB

Date :16 Jun 2015

WD = 7.9 mm

Mag = 10.00 K X

User Name = SYSTEM



Fig 10S. FE- SEM images of the cellulose/ γ -Fe₂O₃/Ag nanocomposite