

Guanidine-functionalised Fe₃O₄ magnetic nanoparticles as basic recyclable catalysts for biodiesel production

Evelyn C. S. Santos,^a Thiago C. dos Santos,^a Renato B. Guimarães,^b Lina Ishida,^c Rafael S. Freitas,^c Célia M. Ronconi*^a

cmronconi@id.uff.br

Supporting Information

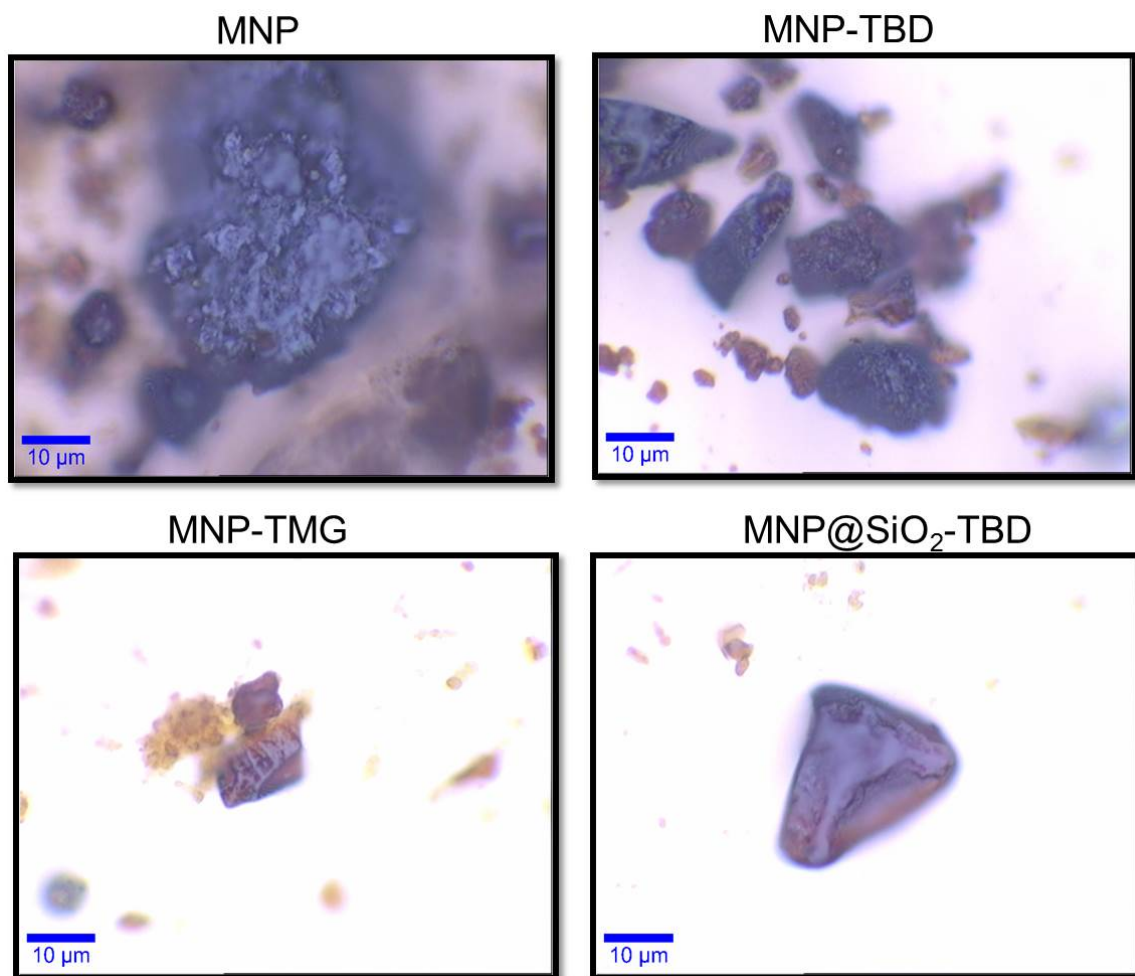


Fig. S1: Particles used in the acquisition of Raman spectra.

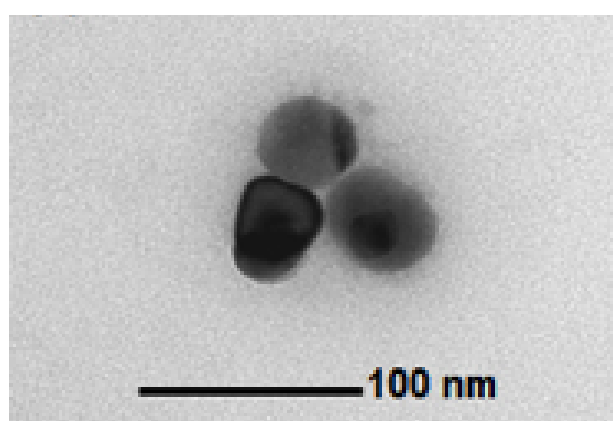


Fig. S2: TEM image of MNP@SiO₂-TBD.

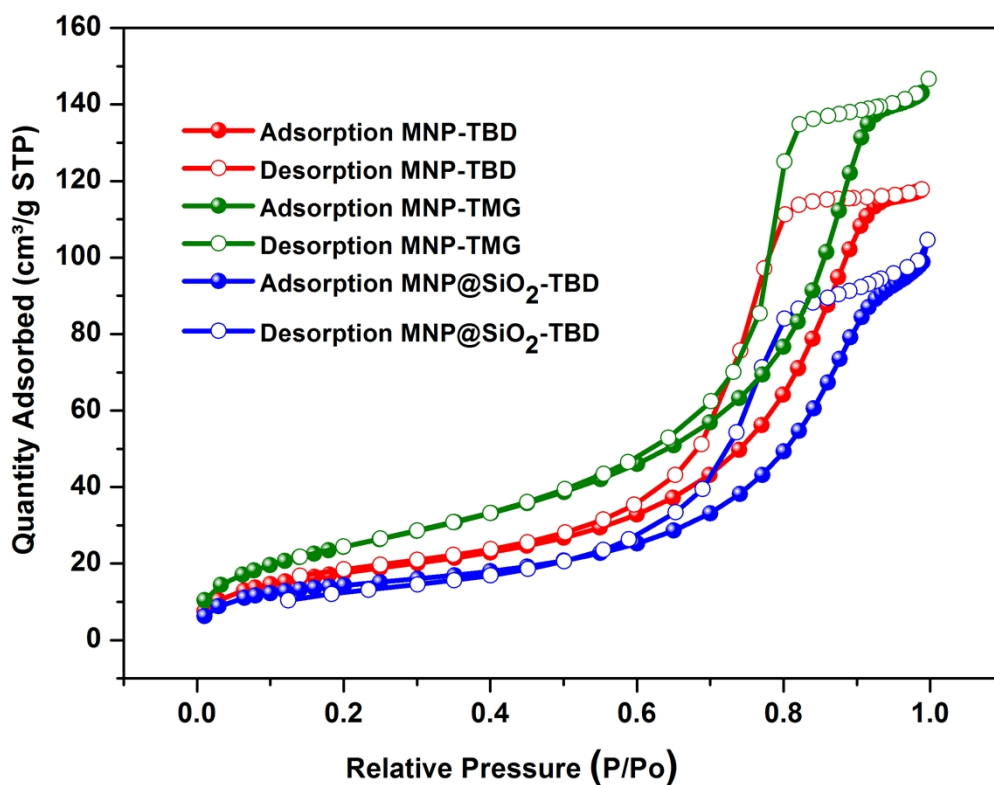


Fig. S3: N₂ adsorption/desorption isotherms of the nanocatalysts.

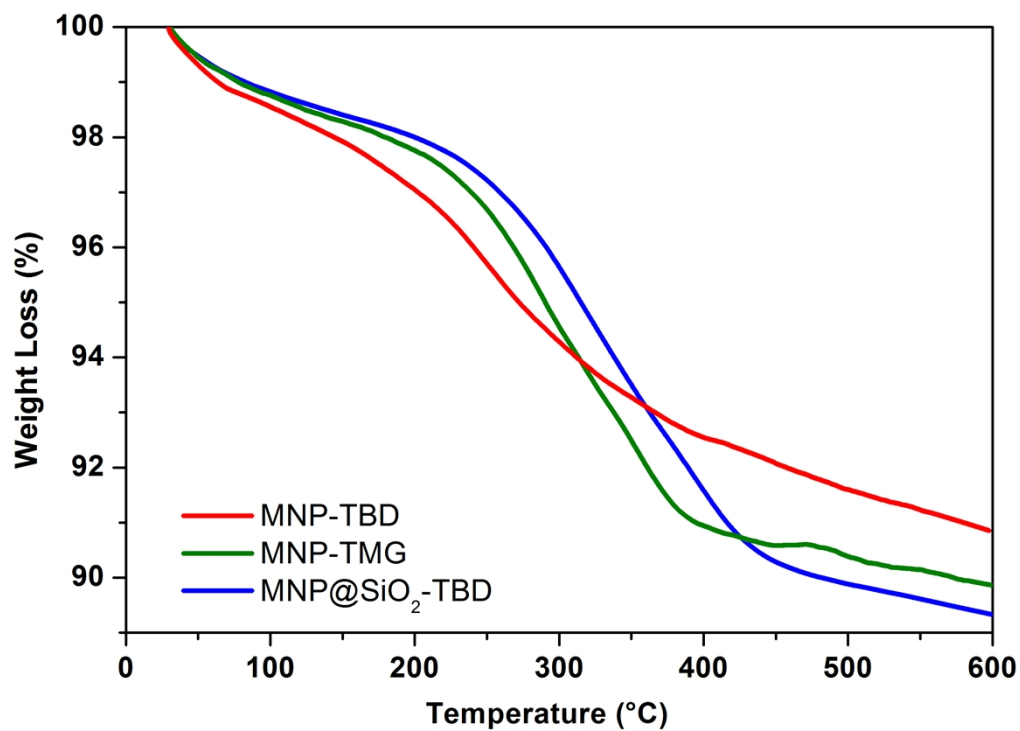


Fig. S4: TGA curves of the nanocatalysts.

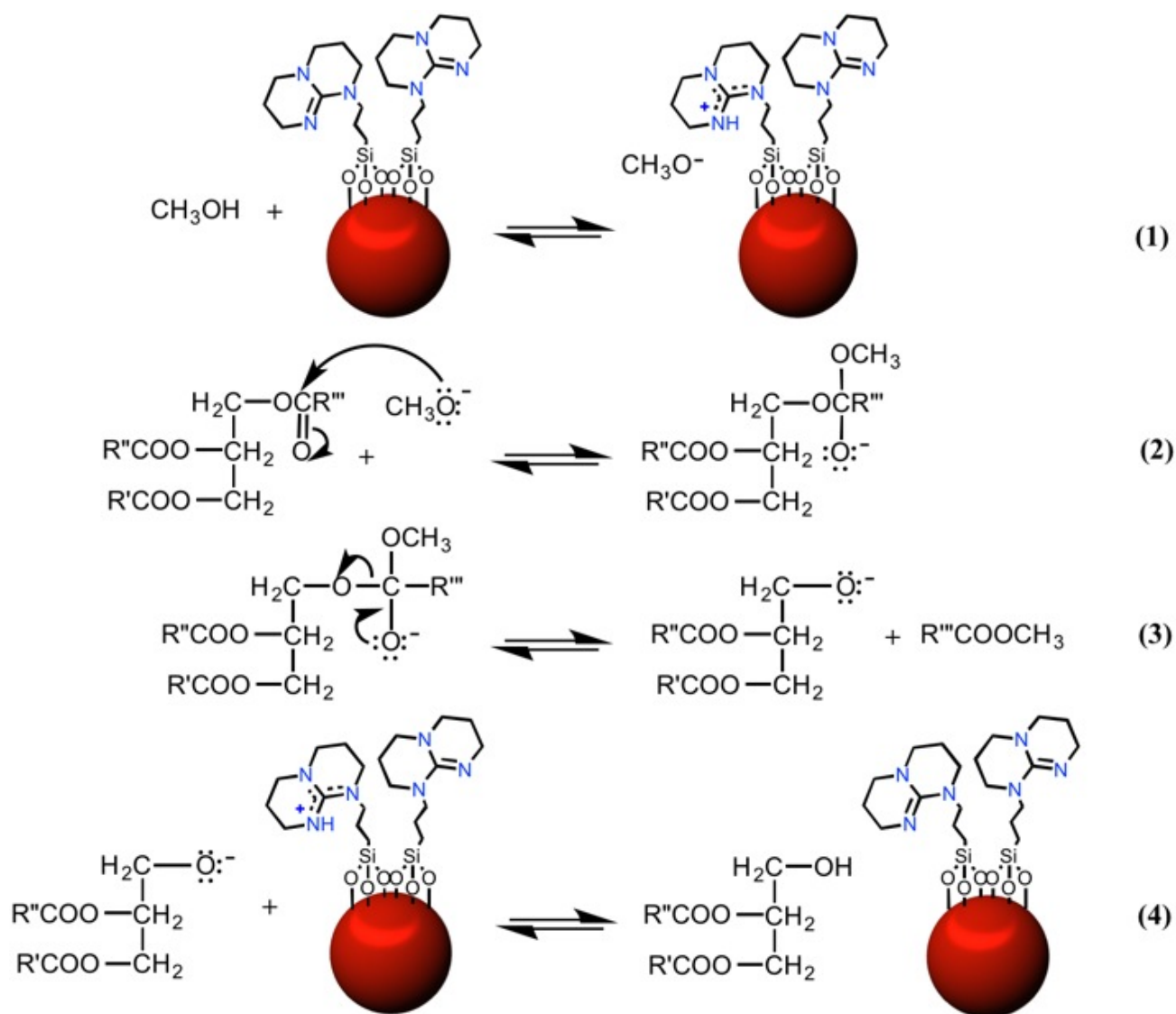


Fig. S5: Mechanistic scheme for transesterification reaction using MNP-TBD nanocatalyst.¹

¹ U. Schuchardt, R. Sercheli, R. M. Vargas, *J. Braz. Chem. Soc.*, 1998, **9**, 199.