**Fig. S1.** Preparation steps of the Fe-Ma and Fe-Ms adsorbents.

**Fig. S2.** Fitting of experimental data to the intraparticle diffusion model for the adsorption of MO dye on (a) Fe-Ma and (b) Fe-Ms (adsorbent dose = 1 g L–1, *T* = 20°C, pHi = 5.6, *V* = 500 mL, stirring velocity = 400 rpm).