Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A
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Electronic Supplementary Information for

A novel magnetic recyclable photocatalyst based on a core–shell metal–organic framework Fe_3O_4@MIL-100(Fe) for the decolorization of methylene blue dye

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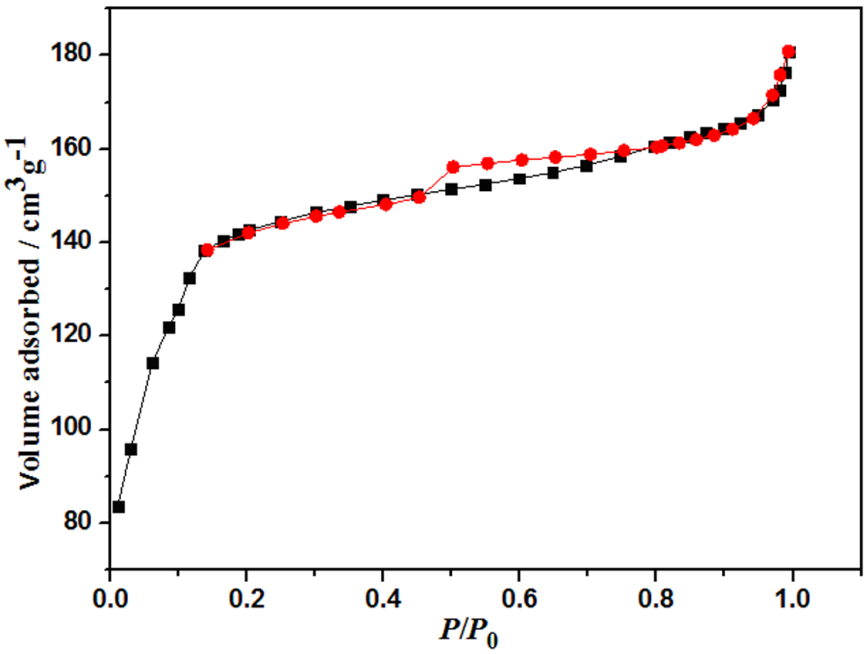

Fig. S1 Nitrogen adsorption-desorption isotherms of the as-synthesized Fe_3O_4@MIL-100(Fe) microspheres.

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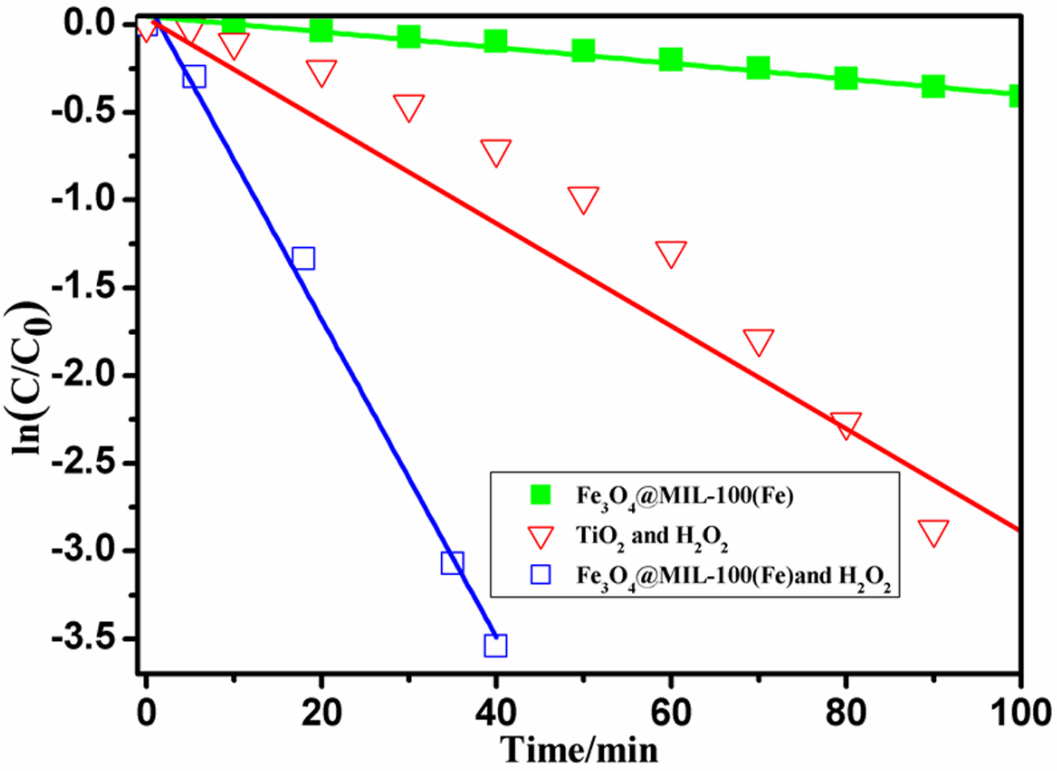

Fig. S2 First-order kinetics plot for the photodegradation of MB by Fe_3O_4@MIL-100(Fe), TiO_2 and H_2O_2, Fe_3O_4@MIL-100(Fe) and H_2O_2 under the irradiation of UV-vis light.

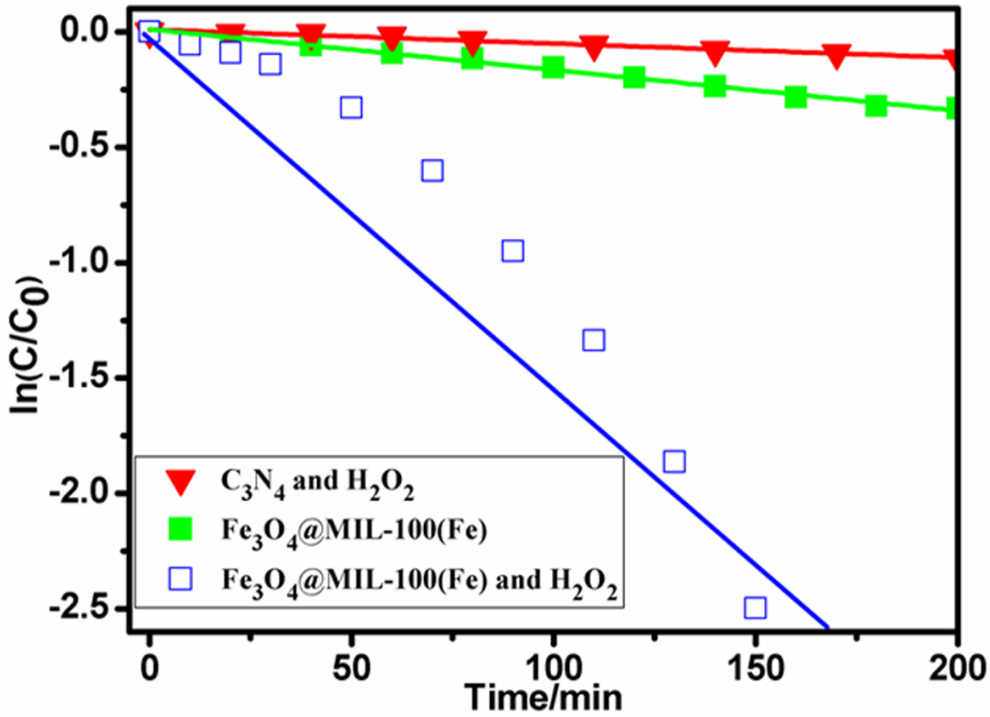

Fig. S3 First-order kinetics plot for the photodegradation of MB by Fe_3O_4@MIL-100(Fe), C_3N_4 and H_2O_2, Fe_3O_4@MIL-100(Fe) and H_2O_2 under the irradiation of visible light.

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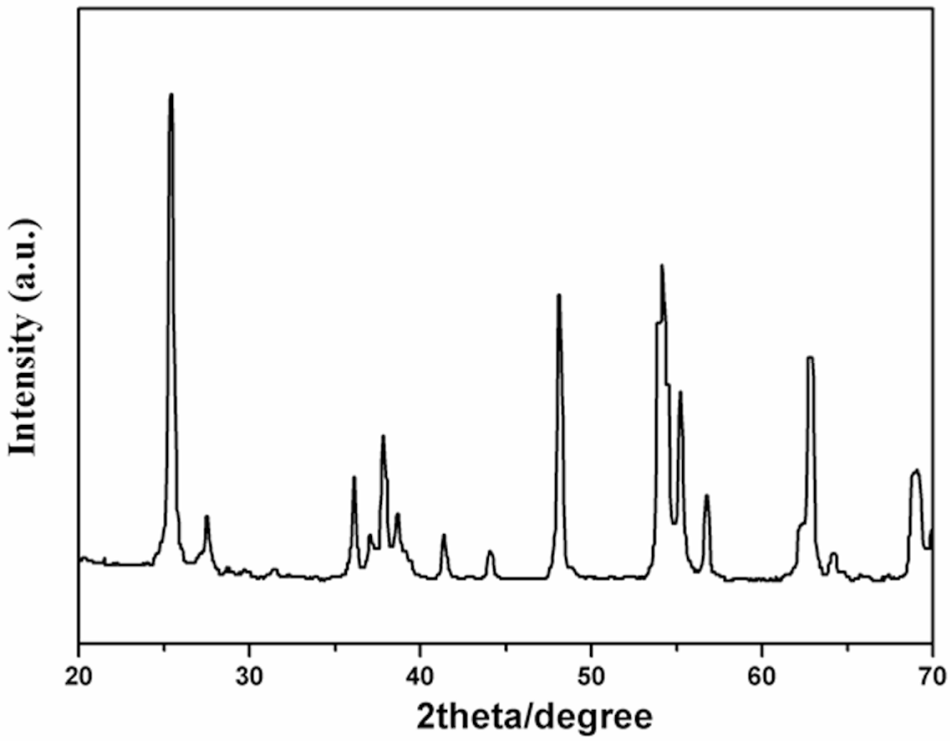

Fig. S4 PXRD pattern of the as-prepared N-doped TiO_2 in the present work.