

Supporting information

Harvesting visible light with MoO₃ nanorod modified by Fe(III) nanocluster for effective photocatalytic degradation of organic pollutants

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Results and discussion

Figures

EDS Spectra

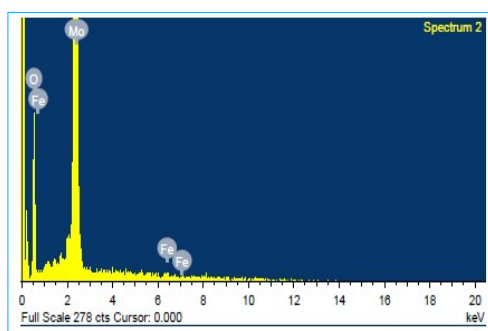


Fig. S1 EDS spectra of 0.1% Fe(III)-grafted MoO₃ nanorod.

PL spectra

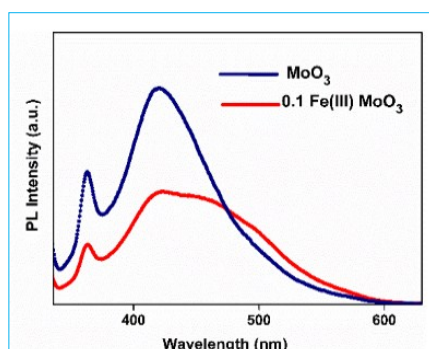


Fig. S2 PL spectra of bare MoO₃ and 0.1% Fe(III)-grafted MoO₃ nanorod.

Photocatalytic activity

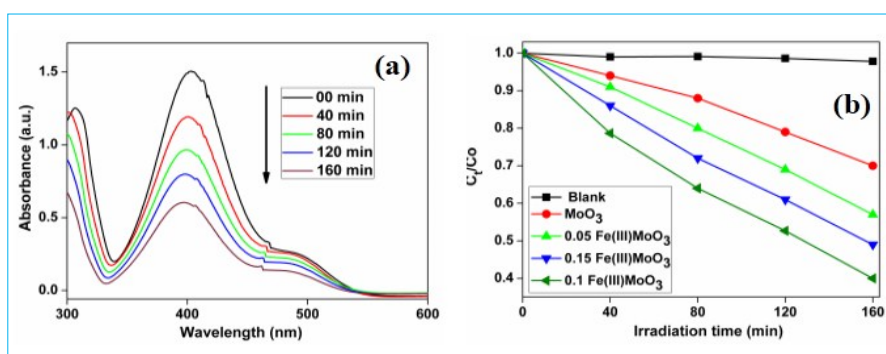


Fig. S3 Change in the absorption spectra of 4-NP at different time intervals in the presence of 0.1% Fe(III)-MoO₃ (a) and change in concentration vs irradiation time over different samples (b).

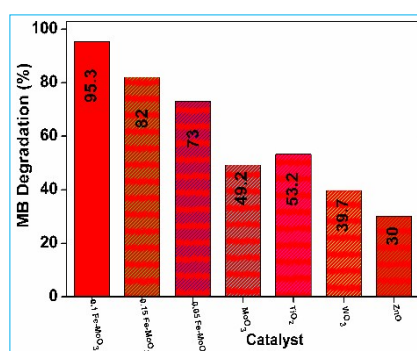


Fig. S4 Comparison of photocatalytic activity of prepared samples with Degussa P25, ZnO and WO₃ for the degradation of MB.

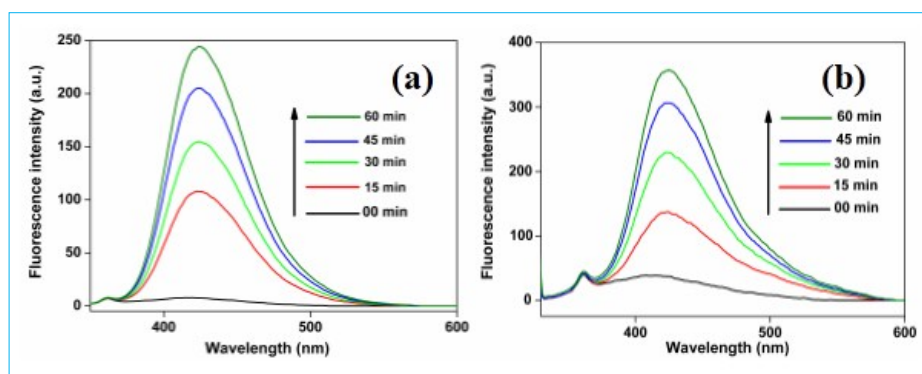


Fig. S5 Change in fluorescence spectra observed during photo-irradiation of (a) bare MoO₃ and (b) 0.1% Fe(III)-MoO₃ in a basic solution of terephthalic acid.