

Supporting Information

Synergetic effect of photocatalysis and peroxymonosulfate activated by MFe₂O₄ (M = Co, Mn or Zn) for enhance photocatalytic activity under visible light irradiation

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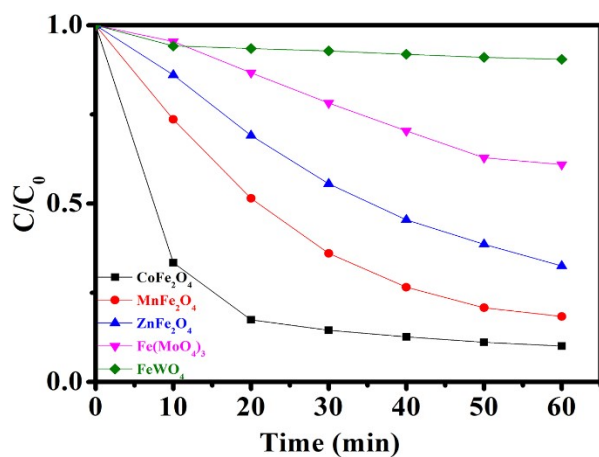
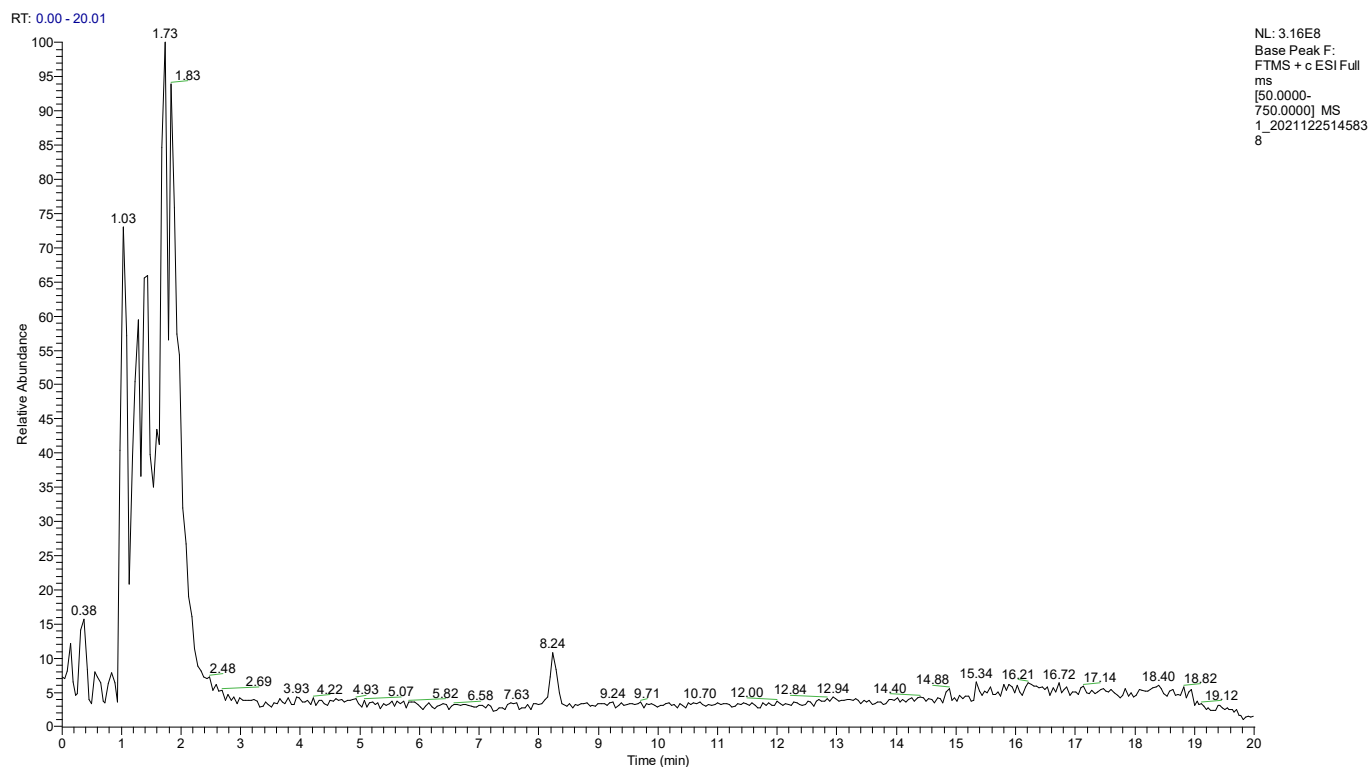


Fig. 1 A comparison between MFe₂O₄ and other photocatalyst performance for the degradation of LVX was examined under the same conditions ([photocatalyst] = 0.5 g/L, [LVX] = 10 mg/L, [PMS] = 2 mM, 0.5 mM, 3 mM, 3 mM and 2 mM for CoFe₂O₄, MnFe₂O₄, ZnFe₂O₄, Fe₂(MoO₄)₃ and FeWO₄ respectively).



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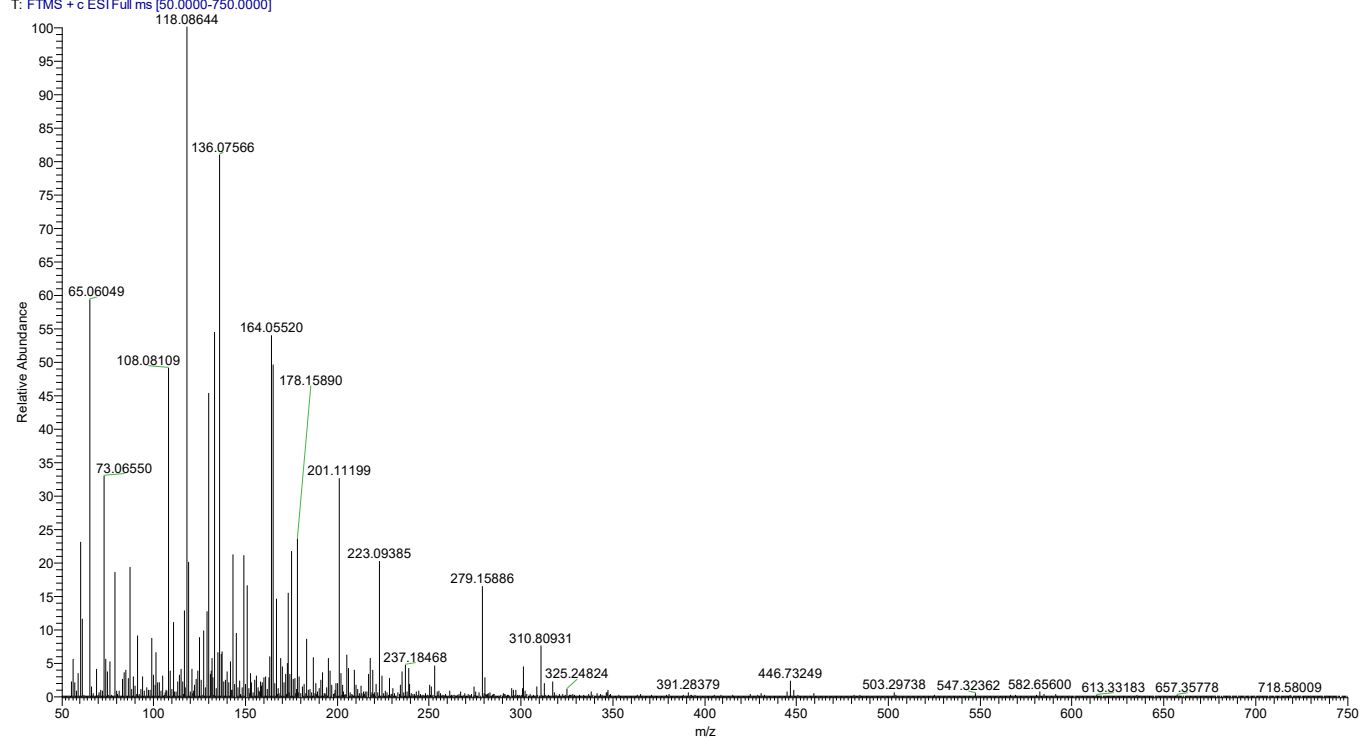


Fig. 2 UPLC–MS results of levofloxacin hydrochlorid degradation products [CoFe₂O₄: 0.5 g L⁻¹; PMS: 2 mM; levofloxacin hydrochlorid: 10mg/L].

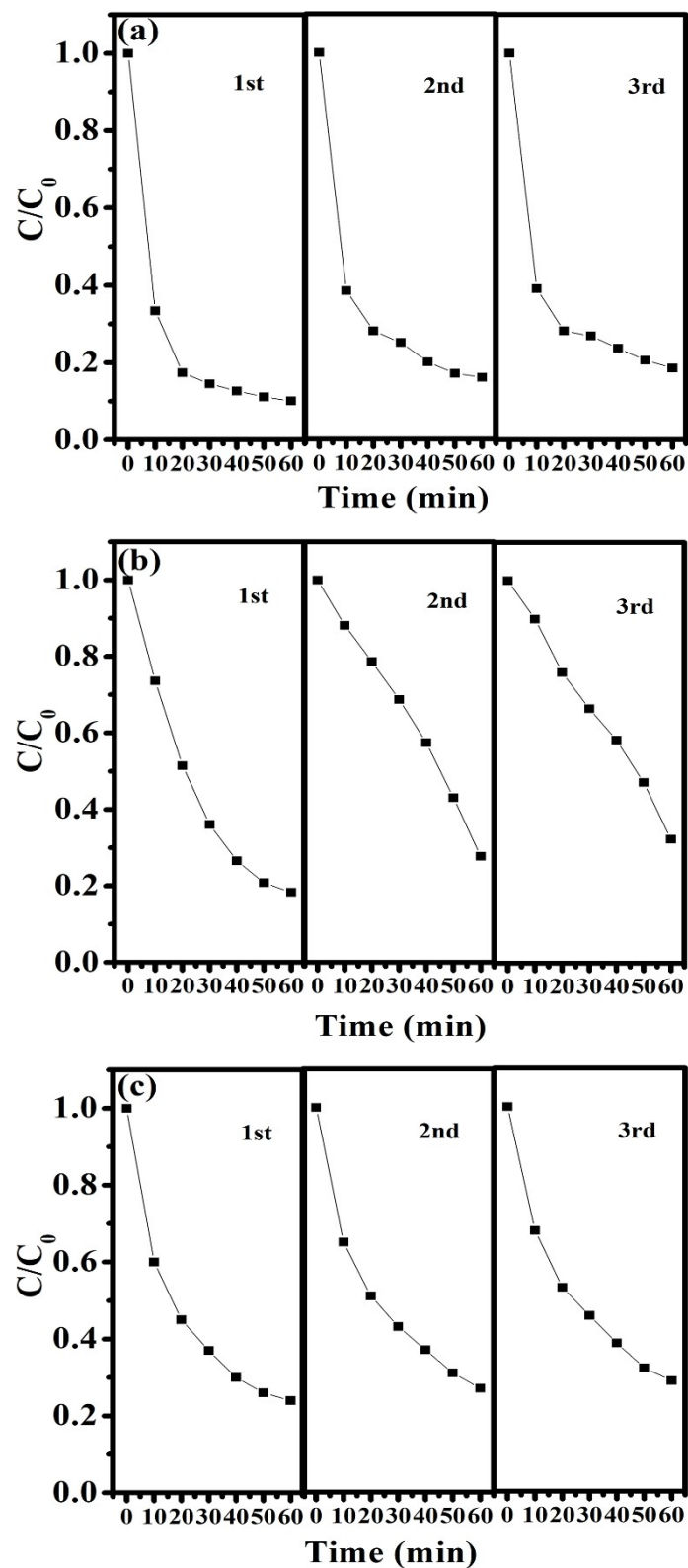


Fig. 3 Cycling runs in the photocatalytic degradation of LVX in the presence of MFe₂O₄ under visible light irradiation: (a) CoFe₂O₄, (b) MnFe₂O₄, (c) ZnFe₂O₄ ([photocatalyst] = 0.5 g/L, [LVX] = 10 mg/L, [PMS] = 2 mM, 0.5 mM and 3 mM for CoFe₂O₄, MnFe₂O₄ and ZnFe₂O₄ respectively).

