

Supplementary Information

Magnetically Separable CdFe₂O₄/Graphene Catalyst and its Enhanced Photocatalytic Properties

Danfeng Zhang^{a,b} Qiong Wang^a Lingling Wang^a Lei Zhang^{a*}

^aCollege of Chemistry, Liaoning University, Shenyang 110036, China

^bCollege of Sciences, Heilongjiang Bayi Agricultural University, Heilongjiang 163319, China

Electrochemical impedance spectra (EIS) were carried out at the open circuit potential of 10 mV over the frequency range of 100 KHz to 1Hz on a CHI660D electrochemical workstation (Shanghai Chenhua, China). During all measurements, the electrolyte was 0.1 mg·L⁻¹ Na₂SO₄.

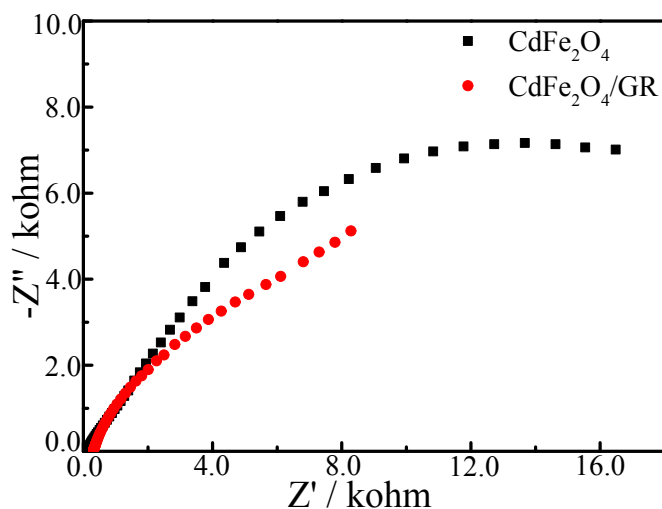


Fig.S1 EIS Nyquist plots of CdFe₂O₄/Gr and CdFe₂O₄ electrodes in 0.1M Na₂SO₄ aqueous solutions

* Corresponding author Tel.: +86 24 62207809; Fax: +86 24 62202380.

E-mail address: zhanglei63@126.com (L. Zhang).

The improved charge separation and transfer efficiency in CdFe_2O_4 and $\text{CdFe}_2\text{O}_4/\text{GR}$ was further confirmed by electrochemical impedance spectroscopy (EIS) (Fig.1S). The diameter of the arc radius on the EIS Nyquist plot of $\text{CdFe}_2\text{O}_4/\text{GR}$ is smaller than that of CdFe_2O_4 , which implies the higher efficiency of charge transfer for $\text{CdFe}_2\text{O}_4/\text{GR}$.