Hierarchically grown CdS/α-Fe₂O₃ heterojunction nanocomposites with enhanced visible-light-driven photocatalytic performance

Shouwei Zhang,a,b Wenqing Xu,c Meiyi Zeng,b Jiaxing Li,a Jinzhang Xu,b,* Xiangke Wang*a

*a Key Laboratory of Novel Thin Film Solar Cells, Institute of Plasma Physics, Chinese Academy of Sciences, 230031, Hefei, PR China.

b School of Materials Science and Engineering, Hefei University of Technology, Hefei 230031, China

c Department of Chemical Engineering, Environmental Engineering Program, Yale University New Haven, Connecticut 06520

*Corresponding author. E-mail: xkwang@ipp.ac.cn, (X. Wang) Fax: +86-551-65591310; Tel: +86-551-65592788;
Figure S1. 13 cycles of the photocatalytic activity for reduction of Cr(VI) using CdS/α-Fe₂O₃-C as the photocatalyst under visible light irradiation.

Figure S2. XRD patterns of CdS/α-Fe₂O₃-C before and after photocatalytic reduction of Cr(VI).