Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B

Supplementary Information

Hematite nanostructures synthesized by silk fibroin-assisted hydrothermal method

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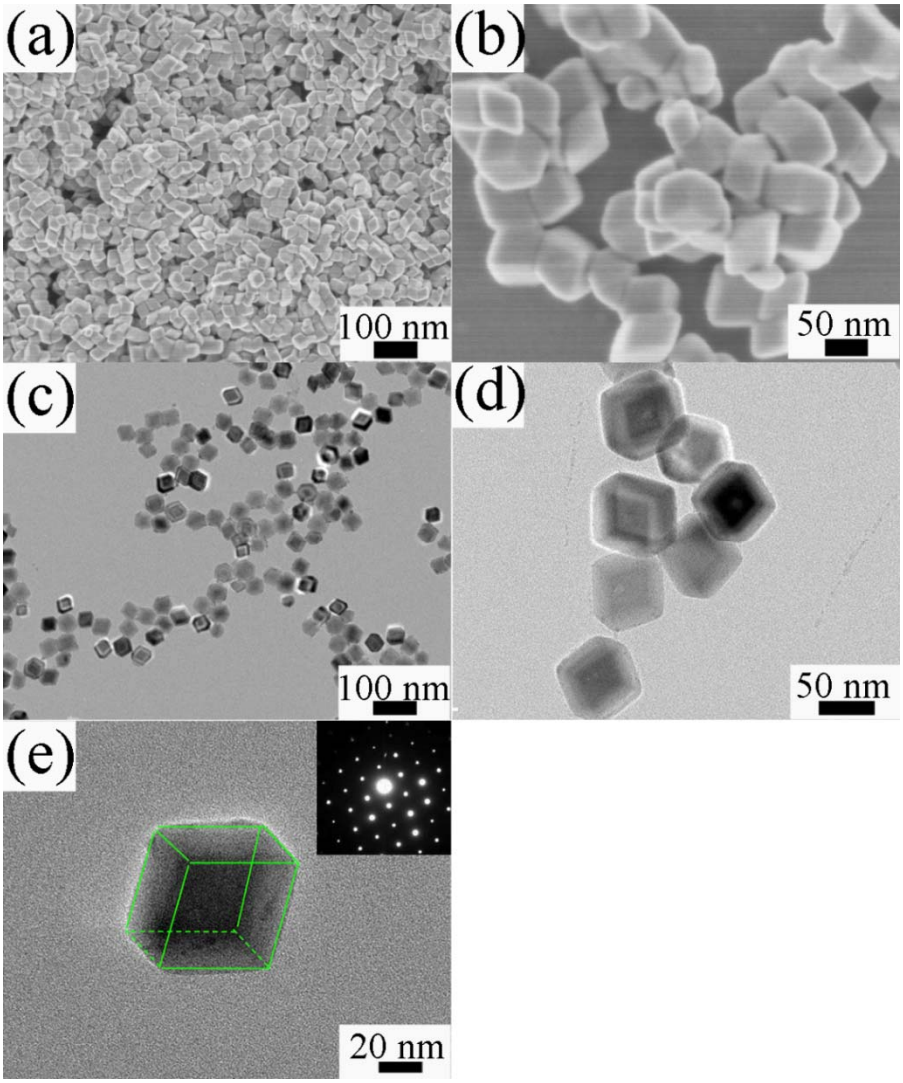

Fig. S1. SEM (a, b) and TEM (c-e) images of the synthesized α-Fe_2O_3 obtained without the silk fibroin.

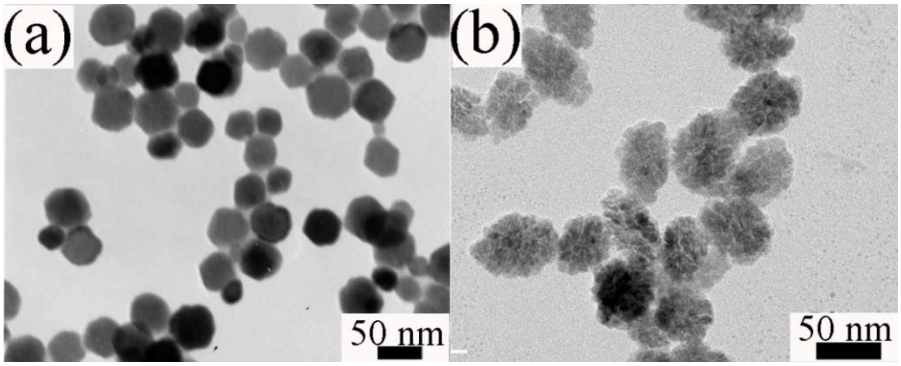

Fig. S2. TEM images of the synthesized α-Fe_2O_3 obtained with different silk fibroin concentration. (a) [RSF] = 0.063 wt%; (b) [RSF] = 0.250 wt%.

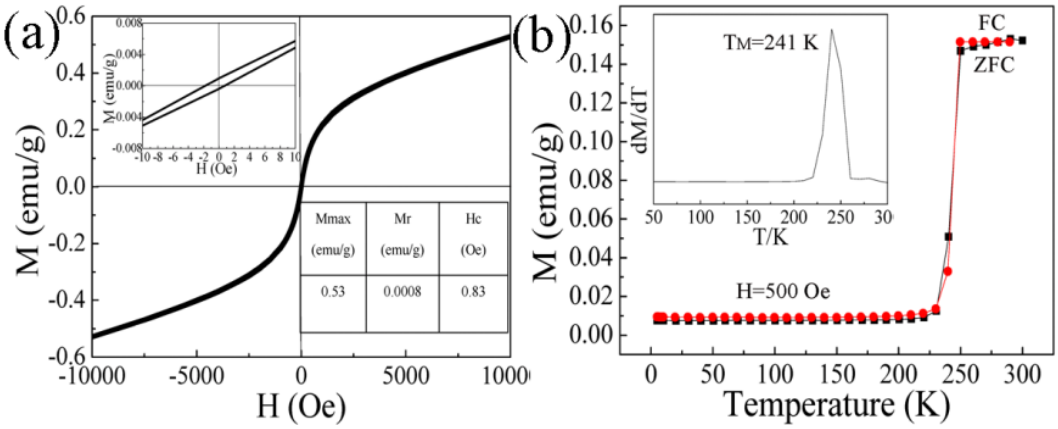

Fig. S3. The magnetic properties of pristine α-Fe_2O_3 nanocubes. (a) magnetic hysteresis loops measured at room temperature, (b) temperature dependence of ZFC and FC magnetization, inset is its corresponding differential ZFC curve.