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-Fe₂O₃ obtained without the silk fibroin.
Fig. S2. TEM images of the synthesized α-Fe₂O₃ obtained with different silk fibroin concentration. (a) [RSF] = 0.063 wt%; (b) [RSF] = 0.250 wt%.

Fig. S3. The magnetic properties of pristine α-Fe₂O₃ nanocubes. (a) magnetic hysteresis loops measured at room temperature, (b) temperature dependence of ZFC and FC magnetization, inset is its corresponding differential ZFC curve.