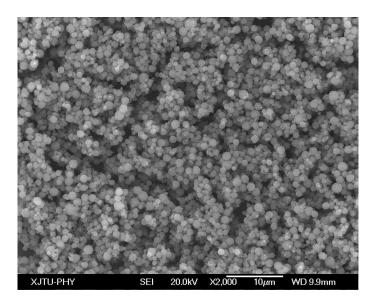
## **Supporting information:**

Electrospun hollow cage-like α-Fe<sub>2</sub>O<sub>3</sub> microspheres: synthesis,

formation mechanism, and the morphology-reserved conversion to

## Fe nanostructures

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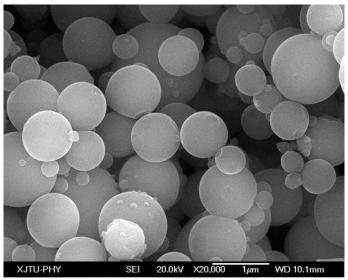


Figure S1 SEM images of precursor PVP/Fe(NO<sub>3</sub>)<sub>3</sub> spheres before calcinations