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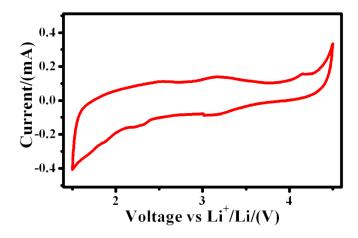


Figure S1 Typical cyclic voltammogram curve for the  $FeF_2$ -CMK-3 hybrid scanning at  $0.2~\text{mVs}^{-1}$  in a voltage window of 1.5-4.5~V.

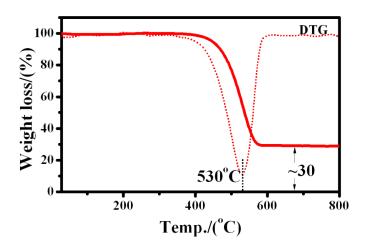


Figure S2 TG curve for the porous  $FeF_2$ -CMK-3 hybrid composite recording at ramp rate of  $10 \text{ }^{\circ}\text{min}^{-1}$  from room temperature to  $800 \text{ }^{\circ}\text{C}$ .