

***In-situ* Growth of FeS Microsheet Networks with Enhanced Electrochemical Performance for Lithium-Ion Batteries**

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1 The quality measuring of FeS

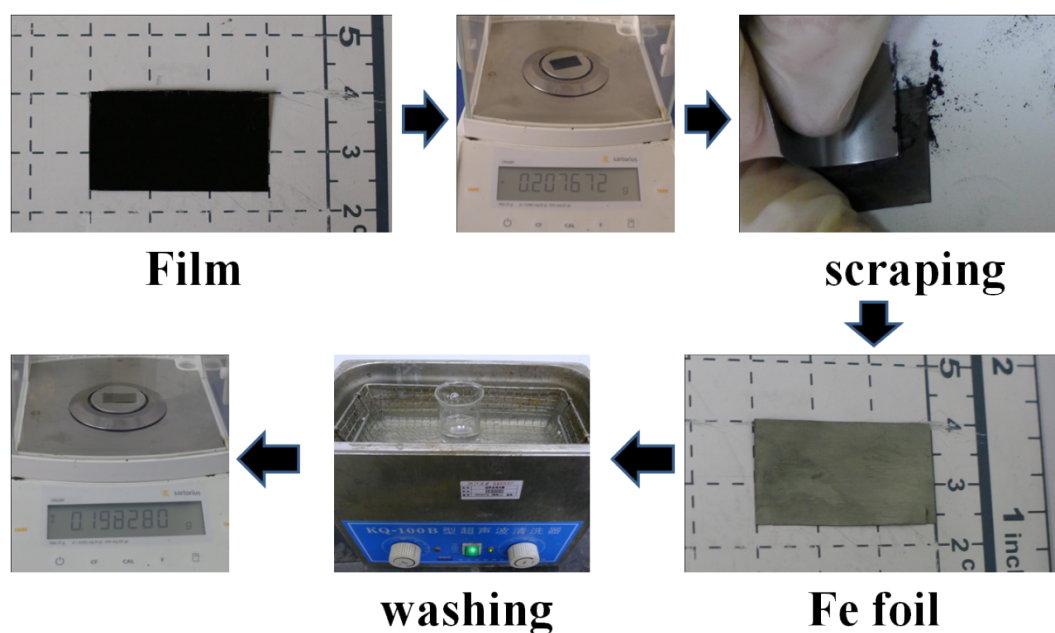


Fig. S1. The experimental procedure of FeS quality measuring.

In our synthesis approach, Fe foil is not only as the substrate, but also as an iron source in the reaction. It is hardly to accurately determine the amount of FeS by calculating the quality difference of sample before and after reaction. So we scratched FeS off from Fe substrate, and ultrasonic cleaned Fe substrate. Then we weighed the quality of Fe substrate. Finally, the quality of FeS is the quality difference before and after scratching the film.

2 Possible growth mechanism of the FeS films

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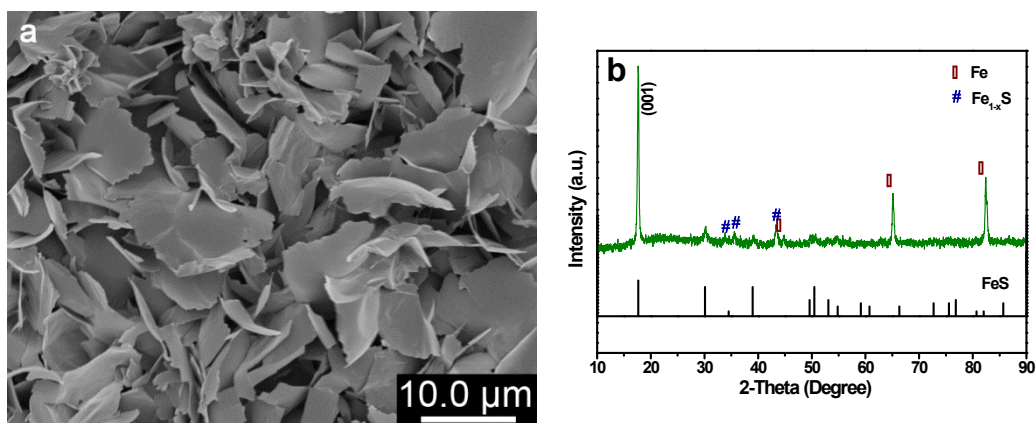


Fig. S2. (a) FESEM image and (b) the corresponding XRD pattern of the product with Tu as sulfur sources in the presence of EDA.