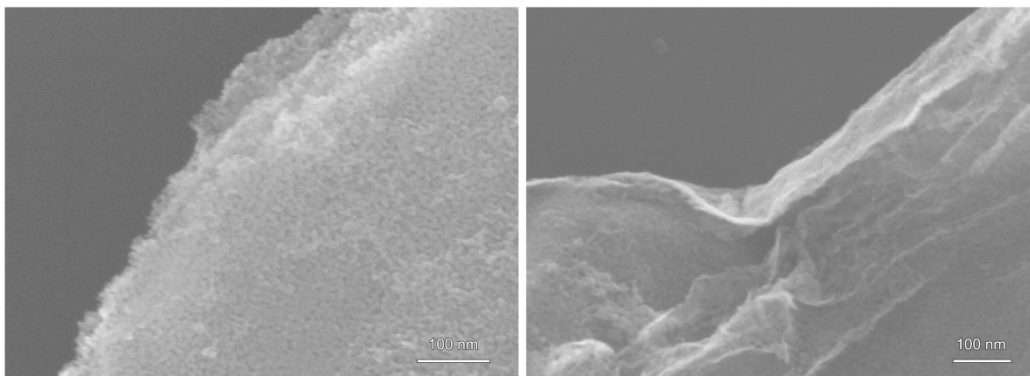


## Supporting Information

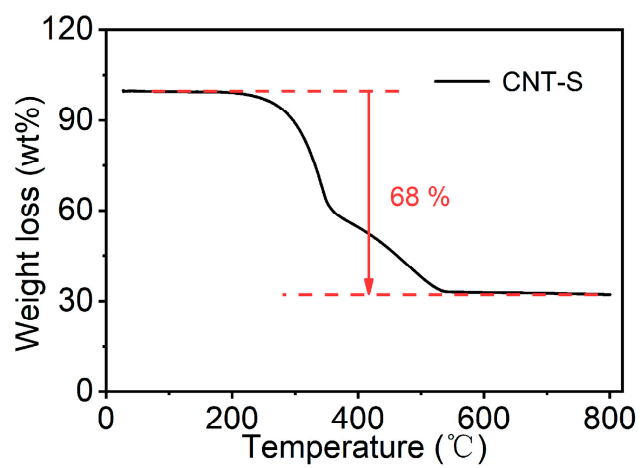
**Ultrathin two-dimensional Fe-Co bimetallic oxide nanosheets for separator  
modification of lithium-sulfur batteries**

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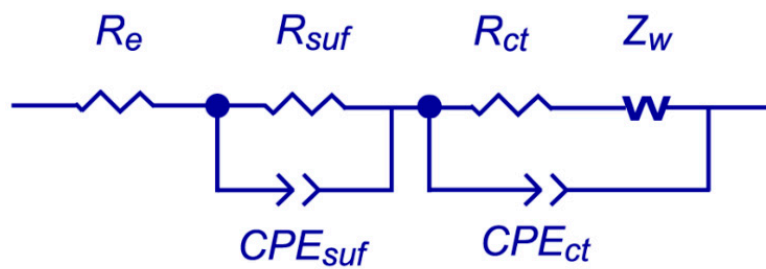
Correspondence: [jpu@ahnu.edu.cn](mailto:jpu@ahnu.edu.cn) (J.P.)



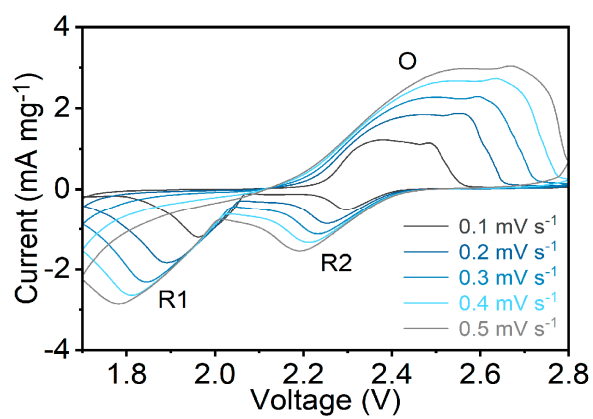
**Figure S1.** SEM of CoFe<sub>2</sub>O<sub>4</sub> nanosheets.



**Figure S2.** TGA curve of the CNT-S composite.



**Figure S3.** The equivalent circuit used to fit the obtained EIS spectra [1].



**Figure S4.** CV curves at various scan rates based on PP separator batteries.

**Table S1.** Comparison of this CoFe<sub>2</sub>O<sub>4</sub> coating layer compared with other reports.

Materials	Thickness (μm)	Rate performance	Ref.
		(mAh·g <sup>-1</sup> )	
EVA <sub>s</sub>	18	507.3 (0.2 C)	[2]
MWCNTs/CeO <sub>2</sub>	10.5	898.3 (0.2 C)	[3]
Ni/NiO-C	12	1333 (0.2 C)	[4]
Nb <sub>2</sub> O <sub>5</sub> /CNT	7.5	998 (0.2 C)	[5]
HGSCS	50	1172.3 (0.2 C)	[6]
<b>CoFe<sub>2</sub>O<sub>4</sub></b>	<b>10</b>	<b>1259.9 (0.2 C)</b>	<b>This work</b>

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