

## Constructing Mesoporous Carbon Incorporated FeF<sub>3</sub> Nanocomposite Cathode by One-step Impregnation Route for Li-ion Battery Applications

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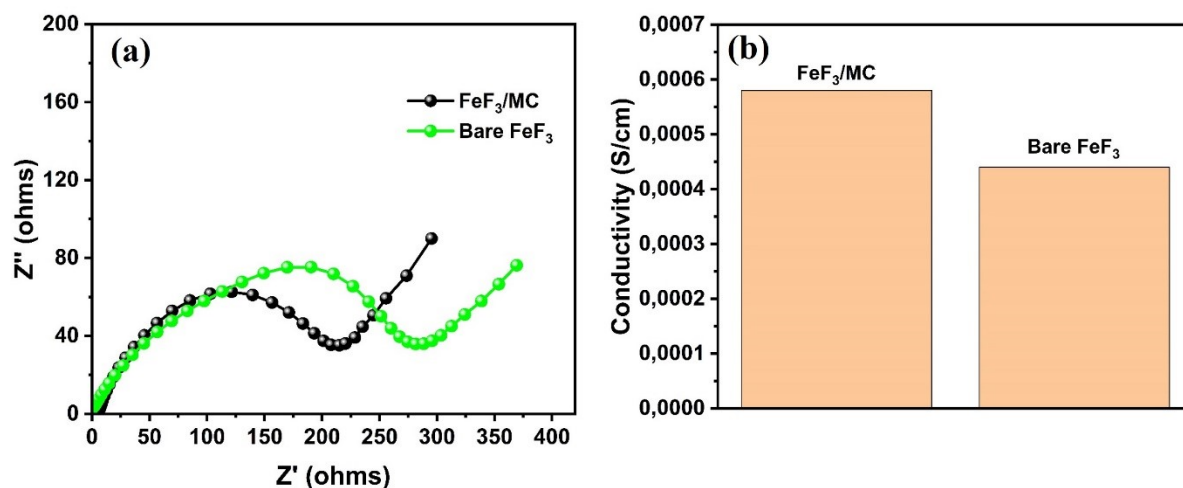
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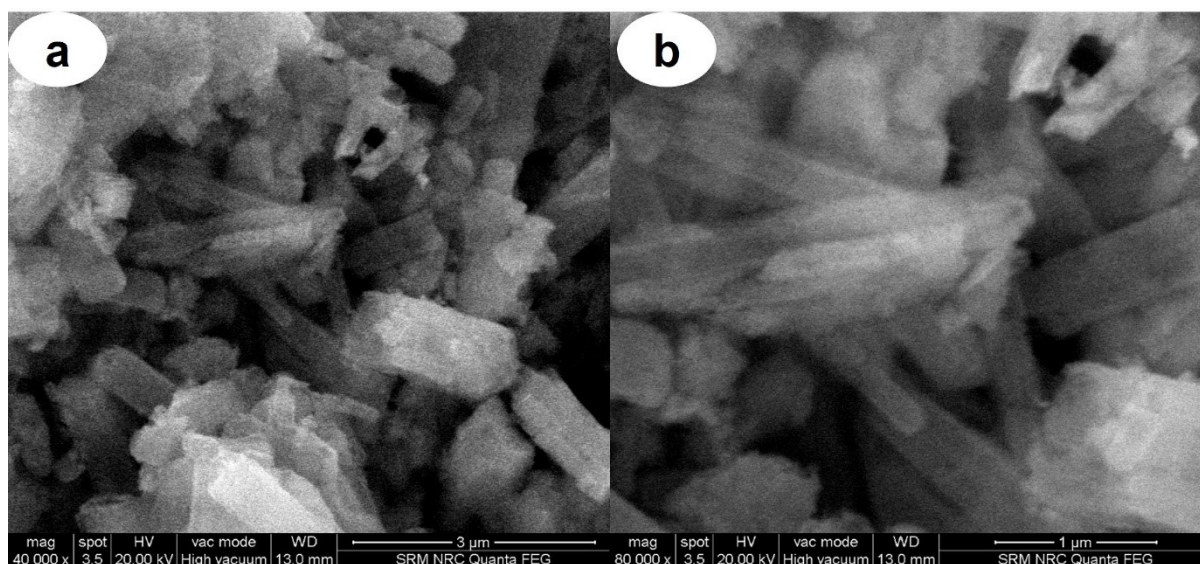
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**Table S1.** List of literature based on carbon composite with FeF<sub>3</sub> cathode for LIBs.

S.No.	Material	Capacity (mAh g <sup>-1</sup> )	C-Rate	Voltage (V)	Cycle Number	Ref.
1.	FeF <sub>3</sub> @CMK composite	190	0.1 C	2.0-4.5 V	60	1
2.	FeF <sub>3</sub> /graphene	234	0.1 C	2.0-4.5 V	60	2
3.	FeF <sub>3</sub> /ACMB composite	112	0.5 C	2.0-4.5 V	50	3
4.	FeF <sub>3</sub> /OMC	162	0.1 C	2.0-4.5 V	30	4
<b>5.</b>	<b>FeF<sub>3</sub>/MC nanocomposite</b>	<b>182</b>	0.1 C	<b>2.0-4.5 V</b>	<b>60</b>	<b>This work</b>



**Figure S1: (a) Nyquist plots for FeF<sub>3</sub>/MC and Bare FeF<sub>3</sub>, and (b) Calculated electrical conductivity using EIS data.**



**Figure S2: SEM images of FeF<sub>3</sub>/MC after cycling.**

### References:

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