

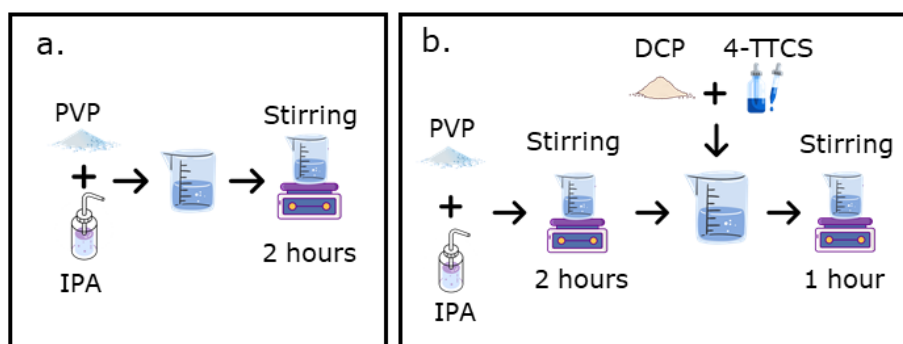
## Supplementary Materials

# Enhanced Li-ion Rate Capability and Stable Efficiency Enabled by MoSe<sub>2</sub> Nanosheets in Polymer-derived Silicon Oxycarbide Fiber Electrodes

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**Figure S1:** Solution preparation process of (a) PVP fiber and (b) PVP/SiOC fiber.

**Table S1:** Comparison of the electrochemical performance of the PVP/SiOC/MoSe<sub>2</sub> anode with previously studied SiOC anodes for LIBs.

Materials	Current Density (mA g <sup>-1</sup> )	Capacity (mAh g <sup>-1</sup> )	References
SiOC/MoSe <sub>2</sub>	50, 100	586,393	This work
SiOC	37	540	[70]
SiOC	100	100	[71]
N-doped RGO aerogels with SiOC	148	565	[72]
SiOC/Graphene	50	582	[73]
SiOC	74	460	[74]
SiOC	36	150	[75]
SiOC	186	303	[58]
SiOC etched with HF	18	457	[60]
SiOC	50	578	[60]
SiOC	50	243	[60]
SiOC	50	53	[60]
SiOC	18.6	568	[76]
SiOC/Glucose	37	201	[13]
SiOC/Potato Starch	37	140	[13]
SiOC/Potato Starch	37	44	[13]