

## Supporting Information

### **Wheat Straw Carbon Matrix Wrapped Sulfur Composites as Superior Cathode for Li-S Batteries**

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**Table S1.** Physical characterization of WSC and WSC/S-74 wt% composite

| Samples      | $S_{\text{BET}}$<br>( $\text{m}^2\text{g}^{-1}$ ) | Total pore<br>volume ( $\text{cm}^3\text{g}^{-1}$ ) | Average pore<br>size (nm) |
|--------------|---|---|---------------------------|
| WSC          | 1066  | 0.62  | 2.33                      |
| WSC/S-74 wt% | 43  | 0.05  | 5.06                      |

**Figure  
S1.**

Preparation processes of the WSC/S composite

