

# Synthesis and characterization of ZnO from thermal decomposition of precipitated zinc oxalate dihydrate as an anode material of Li-ion batteries

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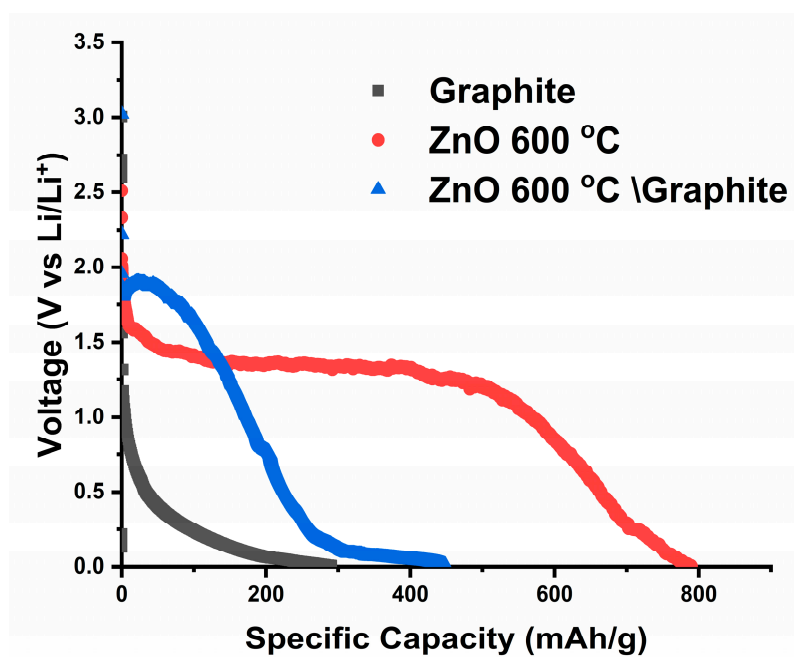
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## Supplementary Information 1

Figure S1 shows an initial discharge capacity of ZnO 600 °C, ZnO 600 °C/ Graphite and Graphite anode using Swagelok type cell. The initial open circuit voltage (OCV) value of ZnO/Li, ZnO 600 °C-Graphite/Li and Graphite/Li are 2.51 V, 2.95 V and 3.05 V, respectively. All cells were discharged to 0.02 V at current rate of 100 mA/g in order to measure the initial discharge capacity. The initial discharge capacity of ZnO/Li cell is 792 mAh/g, while the initial discharge capacity of the graphite/Li and ZnO 600 °C Graphite/Li is 298 mAh/g and 451 mAh/g, respectively. The result is consistent with the charge analysis in full cells which also shows the lithiation capacity of the anode material.



**Figure S1.** Initial Discharge Curve of ZnO-600 °C, ZnO 600 °C/Graphite and Graphite anode material.