**SUPPLEMENTARY MATERIAL**

**Electrode Architecture of Carbon-coated Silicon Nanowires through Magnesiothermic Reduction for Lithium-Ion Batteries**

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| **Fig. S1** X-ray diffraction patterns of SiO2 NWs (black line) and C-Si NWs (red line). |

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| **Fig. S2** TGA for C-Si NWs showing the amount of carbon coating by weight. |