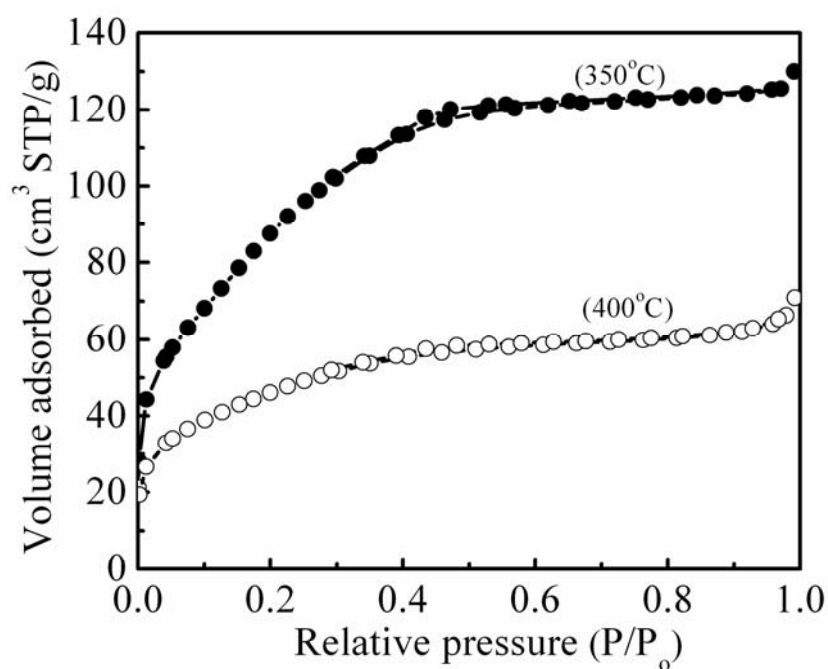


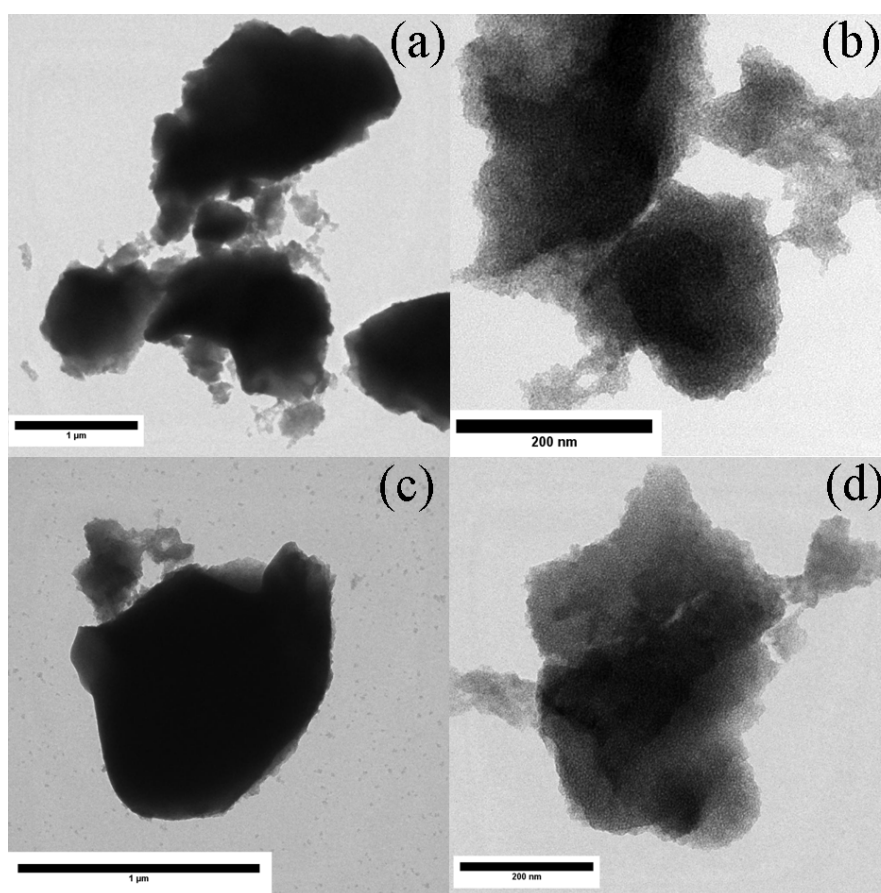
Supporting Information for

**Improved lithium cyclability and storage in a multisized pore
("differential spacers") mesoporous SnO₂**

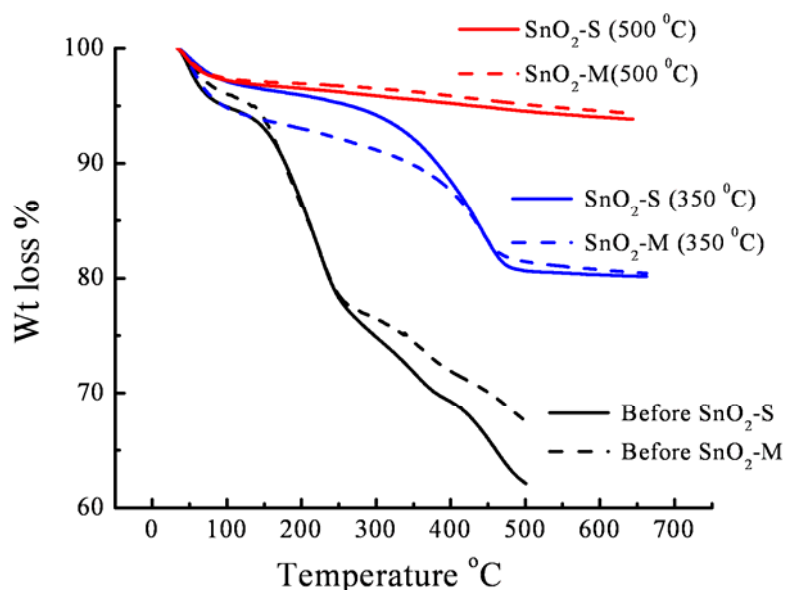
Konda Shiva^a, S. Asokan,^b and Aninda J. Bhattacharyya^{*a}



Supporting information 1: N₂ adsorption-desorption isotherms for SnO₂-M at 350 °C and 400 °C respectively



Supporting information 2: TEM images of various samples at low resolution showing absence of any special particle morphology. Only randomly arranged particles are observed.



Supporting information 3: Thermogravimetric analysis (TGA) of before sintering sample and sintered samples. The sample sintered at 500 °C shows the least weight loss among all the samples. However, based on BET and galvanostatic cycling 500 °C was not selected as the appropriate sintering temperature for the work presented in the manuscript. The sample sintered at 350 °C was found to be most suitable and all characterization with respect to this are presented in the manuscript. The sample sintered at 500 °C showed very poor cyclability due to lower surface area due to loss of mesoporosity. The particles probably possess a solid-like morphology.