Supplementary figures for Electronic-Supporting Information

**Fig. S1a** *in situ* XRD patterns of the KS6 positive electrode in the capacitors using the electrolyte solutions of 1.5M SBPBF$_6$ dissolved in PC.

**Fig. S1b** *in situ* XRD patterns of the KS6 positive electrode in the capacitors using the electrolyte solutions of 1.5M SBPBF$_6$ dissolved in EC.