



**Fig. S14** The electrochemical performance of GC electrode in the electrolytes with MEPBr or CTAB as additives. (a) CV curves of at the scan rate of 10 mV s<sup>-1</sup>. (b) LSV curves at the scan rate of 1 mV s<sup>-1</sup>. (c) Nyquist plots.

The solid bromine complexes in electrolytes will block the pipeline and affect electrolyte flowing, which is