Supporting Information

Interleaved Porous Laminate Composed of Reduced Graphene Oxide Sheets and Carbon Black Spacers by In-Situ Electrophoretic Deposition

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**Figure S1.** Cross-sectional FE-SEM images of deposited RGO/CB laminate with thickness 0.975 μm (a-b) and 1.828 μm (c-d). The weight percents of RGO in RGO/CB are 97% (a-b) and 94% (c-d).
Figure S2. X-ray Photoelectron Spectroscopy data of GO (a) and CB (b). Narrow scan spectrum is included in the inset of (a).

Figure S3. Cyclic Voltammetry (CV) measurement based on the electrode area of RGO and RGO/CB membrane electrodes in the scan rate of 20 mV/s.
**Figure S4.** CV measurement of RGO membrane electrode in the scan rates of 1, 10, 20, 50, 100, and 200 mV/s.

**Figure S5.** CV measurement based on the electrode area of RGO/CB membrane electrode in scan rates of 1, 10, 20, 50, 100, and 200 mV/s.