Supporting Information

Compressible and hierarchical porous graphene/Co composite aerogel for lithium-ion battery with high gravimetric/volumetric capacities

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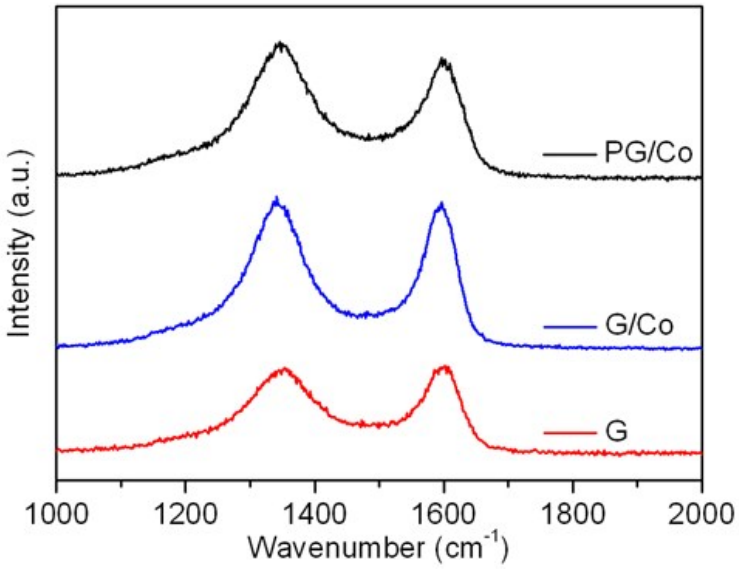

Fig. S1 Raman spectra of G, G/Co, and PG/Co aerogels.

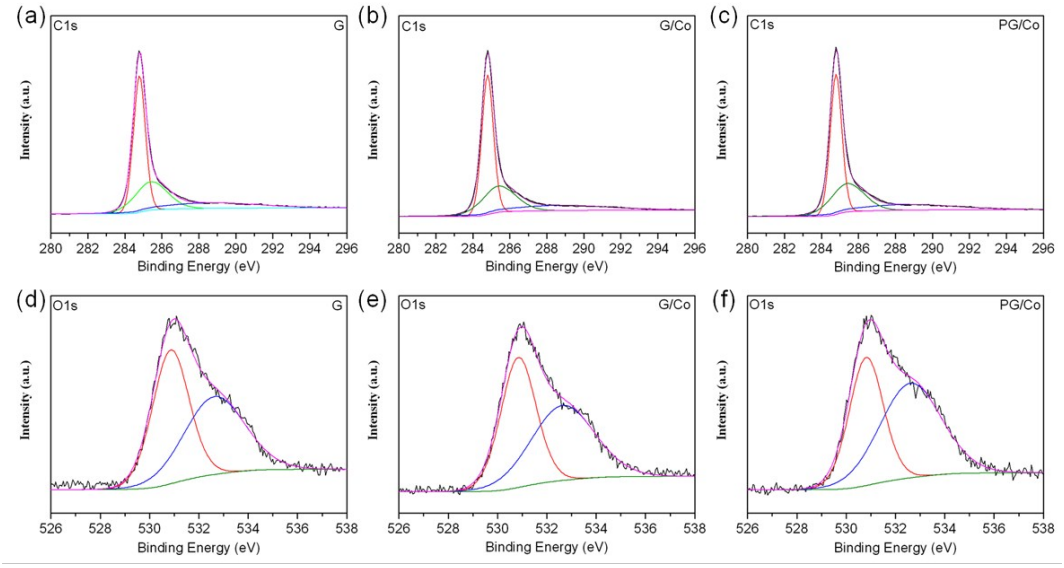

Fig. S2 C1s (a-c) and O1s (d-f) peaks in the XPS spectra of the G, G/Co, and PG/Co aerogels.

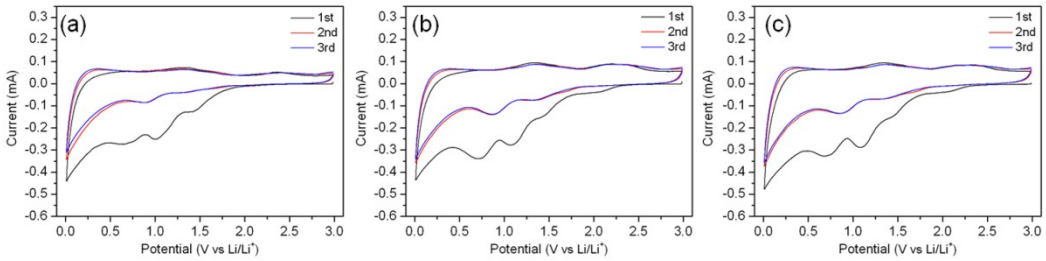

Fig. S3 CV profiles of G (a), G/Co (b) and PG/Co (c) aerogels at a scan rate of 0.1 mV S^{-1}.

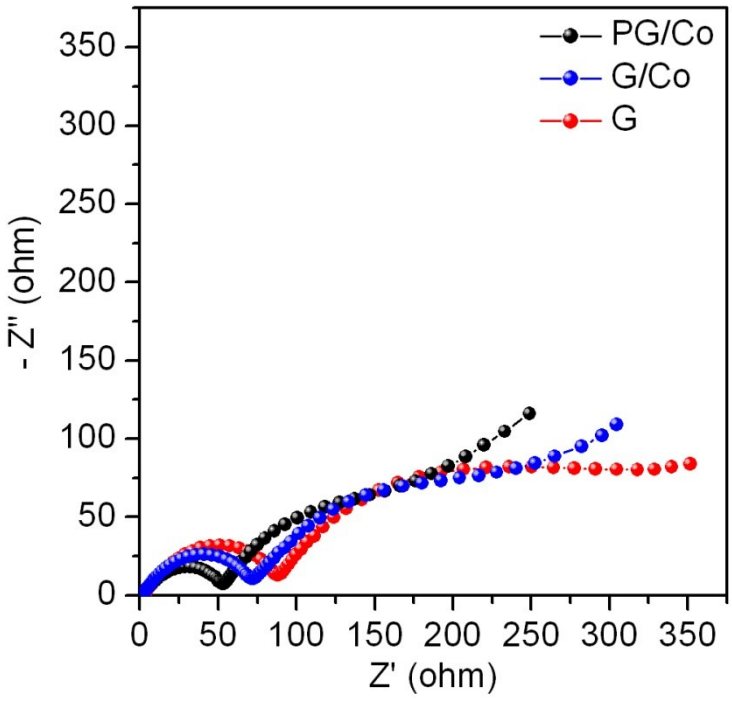

Fig. S4 Nyquist plot for the G, G/Co and PG/Co electrodes.

Table S1 Values of equivalent circuit elements obtained by EIS.

Sample	R_s (Ω)	R_{SEI} (Ω)	R_{ct} (Ω)
G	2.8	96.9	285.6
G/Co	2.1	73.4	148.1
PG/Co	1.7	54.2	105.1