Supporting Information

Bio-Inspired Nacre-like Layered Hybrid Structure of Calcium Carbonate under the Control of Carboxyl Graphene

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**Fig. S1** SEM images of 0.5mg/mL GO-COOH aqueous solution after dried at 40 °C in a vacuum for 24 h, b) high magnification SEM images of a). It reveals a wrinkle structure.

**Fig. S2** Typical XRD diffraction patterns of pure CaCO$_3$ crystals in aqueous solution after 24 h of reaction.
Fig. S3 SEM image of the cross section of GO-COOH/CaCl$_2$ hybrids. It reveals a loose layered structure.