Mechanically Strong, Electrically Conductive and Biocompatible Graphene Paper**

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Figure S1. (A) Normalized remaining mass of graphene oxide paper as a function of temperature in air; (B) XRD patterns of graphene oxide paper samples that have been heat treated at various temperatures. Note that the diffraction intensity of heat-treated samples are lower than that of the corresponding graphene paper shown in Fig. 2B, indicating a lower extent of orientation in thermally annealed graphene oxide paper; (C, D) Photograph (C) and SEM image (D) of a piece of graphene oxide paper that has been treated at 220°C for 1 h.