Supplementary Files

**Elastic three-dimensional graphene sponge fabricated by the liquid crystals of controlled large graphene oxide sheets**

Qiuli Wei, Anaerguli Wufuer, Meisong Wang, Yuanyuan Wang \*, Liyi Dai

College of Chemistry and Molecular Engineering, East China Normal University, 500 Dongchuan Road, Shanghai 200241, China

\*Corresponding author: Yuanyuan Wang

Tel./fax:+86-21-54340133

E-mail: [ecnu\_yywang@163.com](mailto:ecnu_yywang@163.com)



Fig. S1 Typical SEM images (a,b,c) and corresponding histogram of GO sheets size distribution (d,e,f) of SGO, LGO, and ULGO



Fig. S2 SEM images of 3DG sponge constructed with LGO + KOH (0.007M) (a) and LGO + KOH (0.028M) (b)



Fig. S3 SEM images of 3DG sponge constructed with LGO + KOH (0.014M) reduced by ascorbic acid (0.12g) (a) and ascorbic acid (0.48g) (b)



Fig. S4 Compressive stress–strain curves of 3 cycles of loading and unloading of 3D EG sponge prepared with ULGO (a) and LGO (b).