Supplementary information

Reduced graphene oxide induced confined growth of PbTe crystals and enhanced electrochemical Li-storage properties

Fangfang Tu, Ying Huo, Jian Xie, Gaoshao Cao, Tiejun Zhu, Xinbing Zhao and Shichao Zhang

*a* State Key Laboratory of Silicon Materials, Department of Materials Science and Engineering, Zhejiang University, Hangzhou 310027, China. E-mail: xiejian1977@zju.edu.cn; Fax: +86-571-87951451; Tel: +86-571-87952181

*b* Key Laboratory of Advanced Materials and Applications for Batteries of Zhejiang Province, China

*c* School of Materials Science and Engineering, Beijing University of Aeronautics and Astronautics, Beijing 100191, China

Fig. S1 (a) TEM and (b) HRTEM images of bare rGO.
Fig. S2 Electrochemical performance of bare rGO: (a) voltage profiles and (b) cycling stability charged-discharged at 50 mA g$^{-1}$, and (c) rate capability charged at various current densities and discharged at 50 mA g$^{-1}$. 
Fig. S3 (a) and (b) SEM images of bare PbTe electrode after 50 cycles, and (c) and (d) SEM images of PbTe/G4 electrode after 100 cycles.