Supporting information

Facile one-pot solvothermal method to synthesize ultrathin Sb_2S_3 nanosheets anchored on graphene

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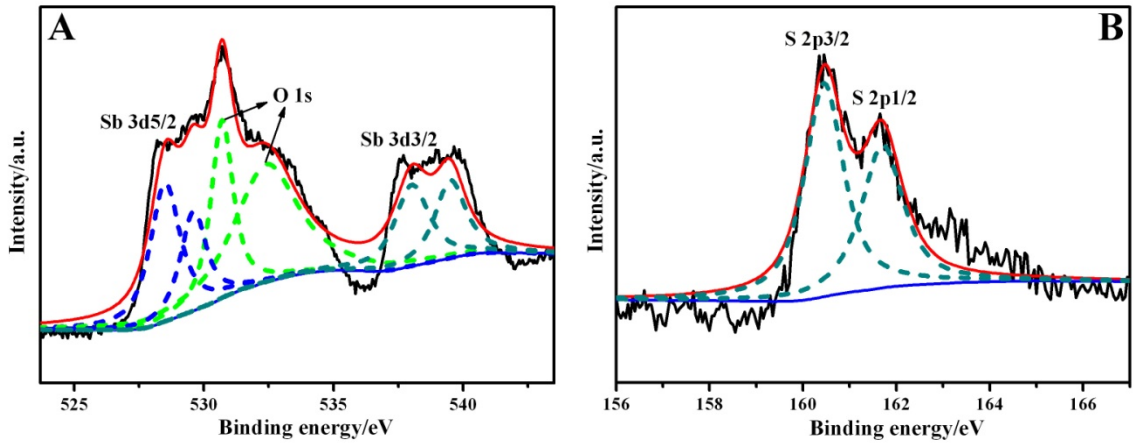

Fig. S1 High-resolution XPS spectra of Sb 3d (A) and S 2p (B).

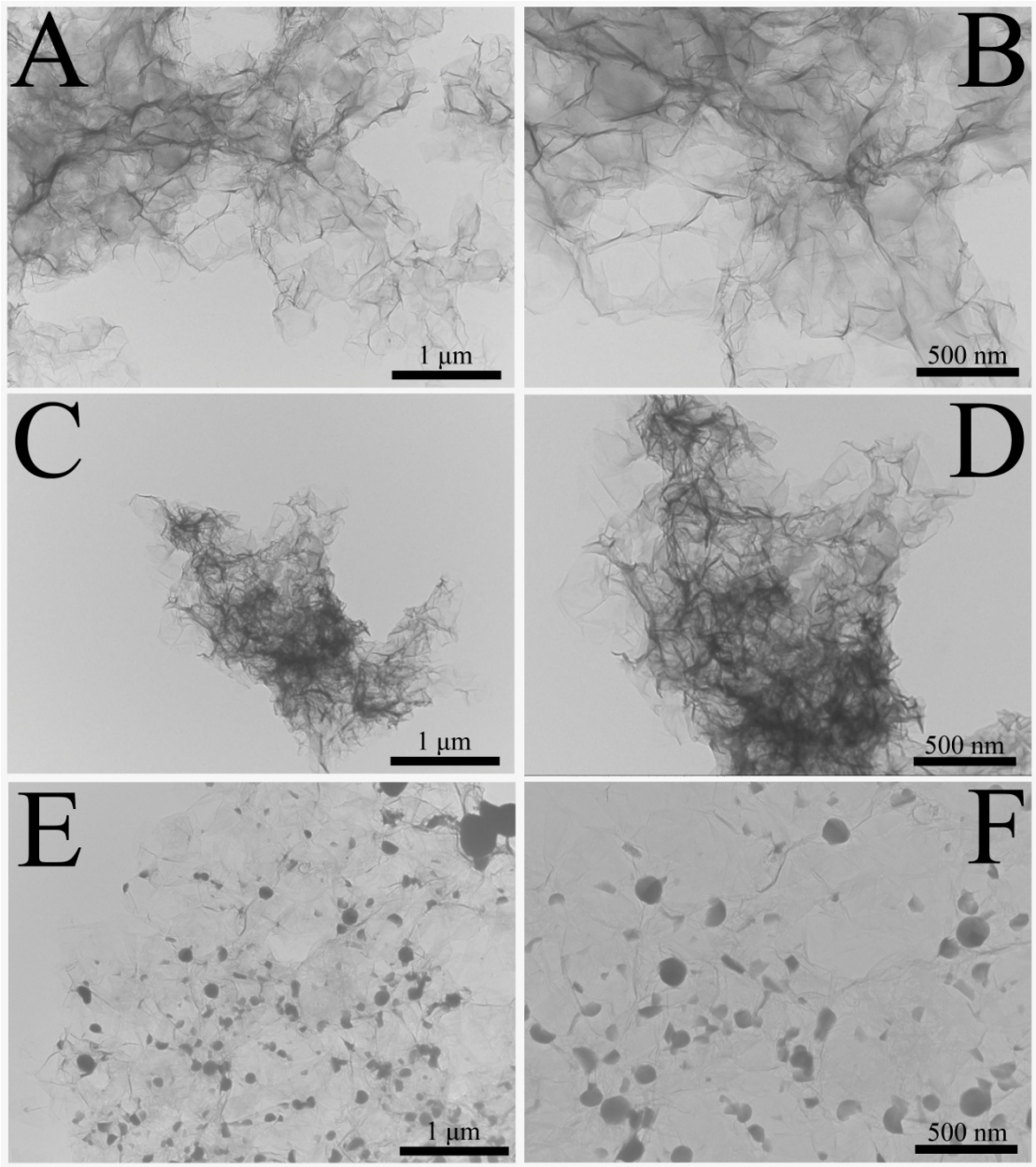

Fig. S2 TEM images of Sb_2S_3–G prepared in water (A, B), water/EG (C, D) and EG (E, F).

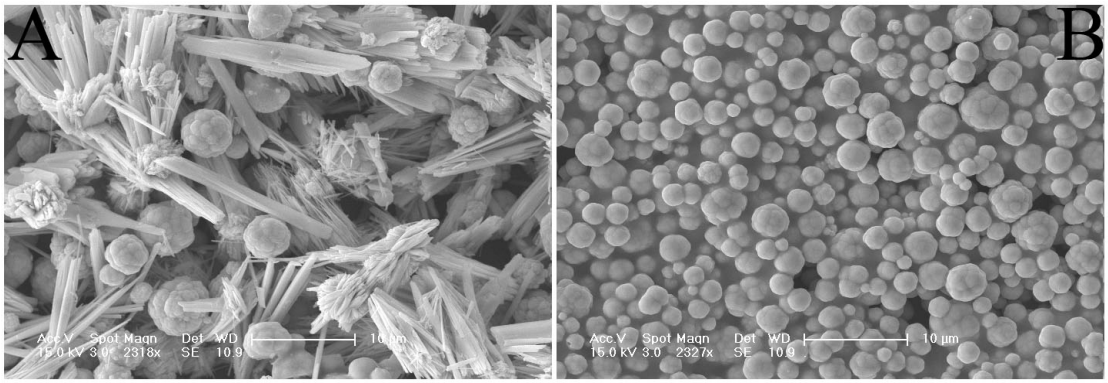

Fig. S3 SEM images of Sb_2S_3 prepared in water (A) and water/EG (B) solvent.

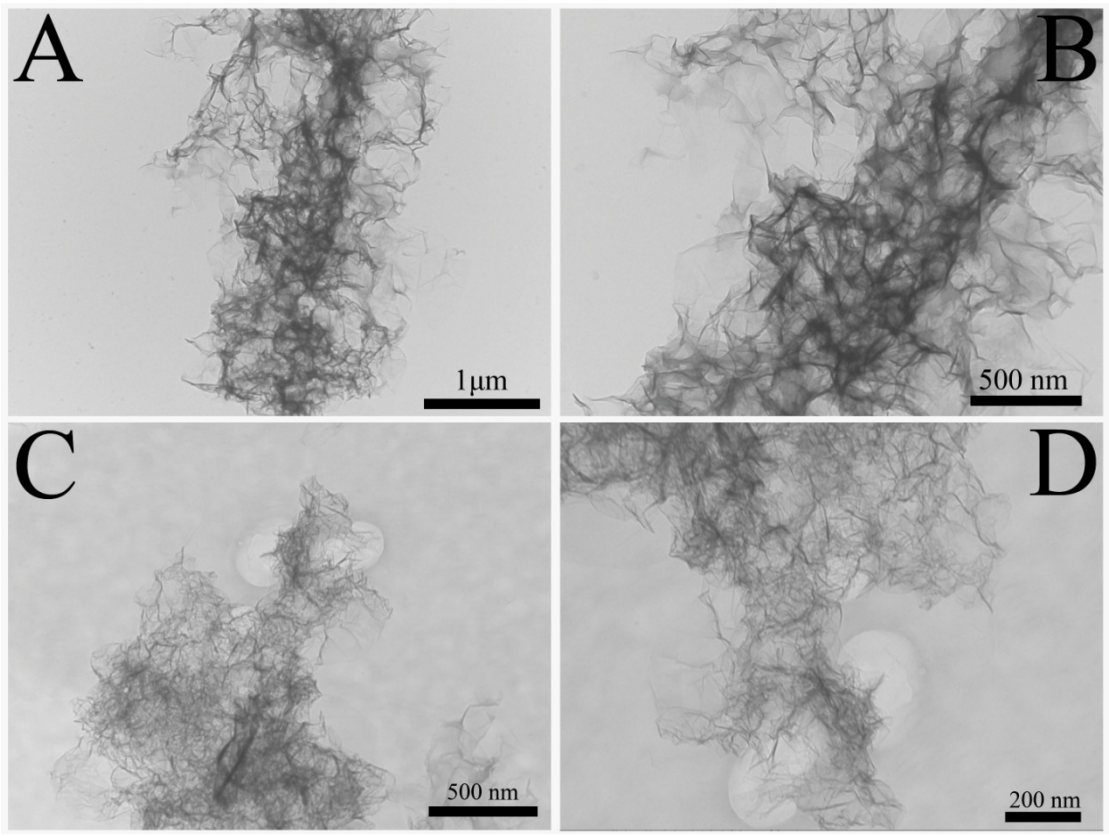

Fig. S4 TEM images of the comparative sample Sb_2S_3–G prepared in water/EG with the use of L–cysteine (A, B) and Na_2S (C, D).

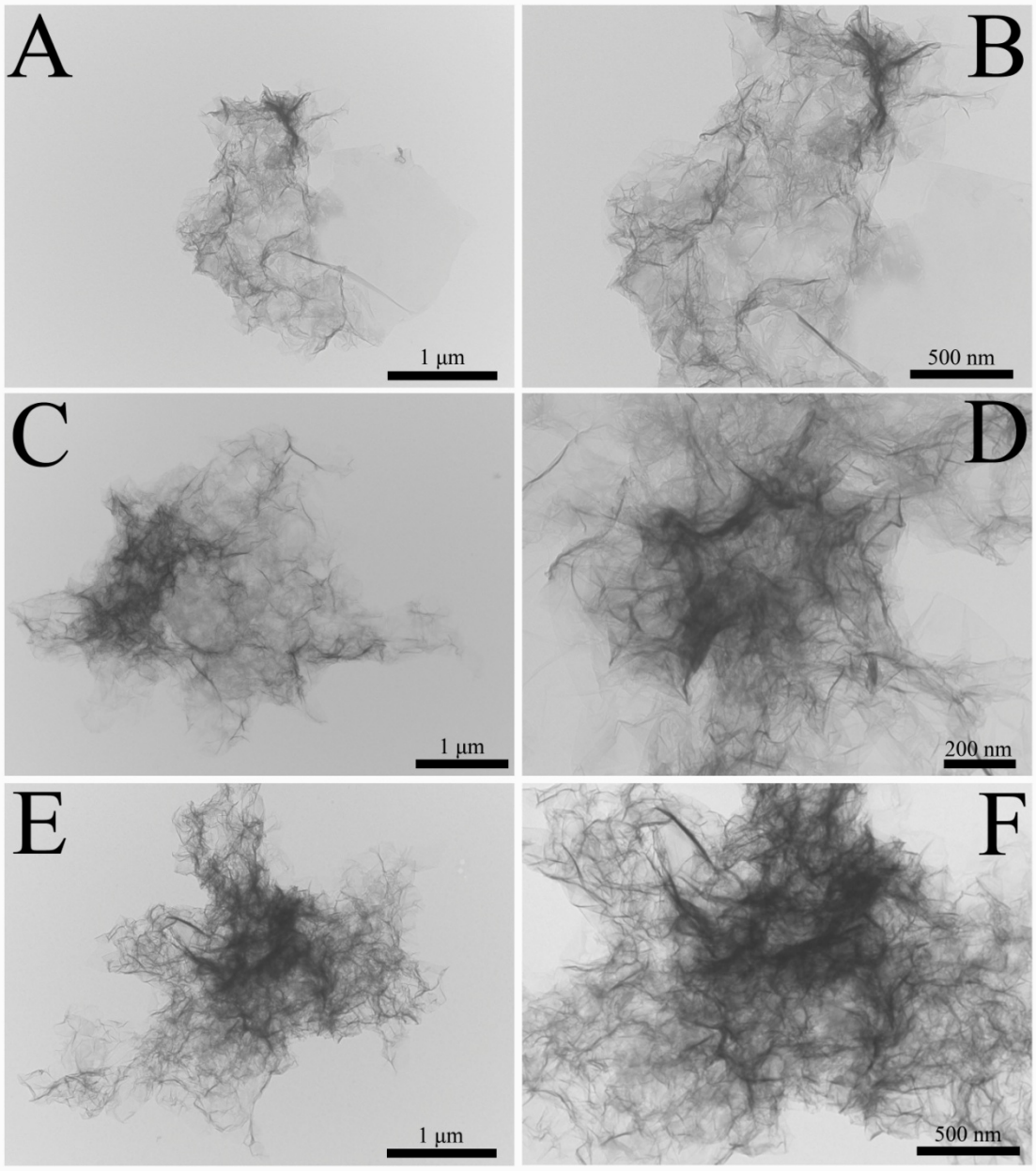

Fig. S5 TEM images of Sb_2S_3–G was synthesized in water/EG via fixing the amount of Sb^{3+} while setting the GO concentrations as 1.5 mg/mL (A, B), 1 mg/mL (C, D) and 0.5 mg/mL (E, F).