Electronic Supplementary Material (ESI) for Nanoscale

Controllable Synthesis and Electrochemical Hydrogen Storage Properties of Sb_2Se_3 Ultralong Nanoblets with Urchin-like Structures

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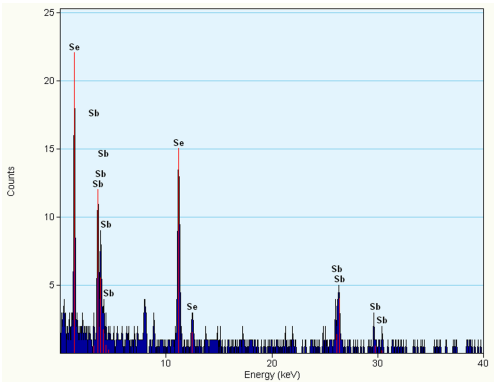

Fig. S1 EDAX spectrum of the obtained Sb_2Se_3 ultralong nanobelt.

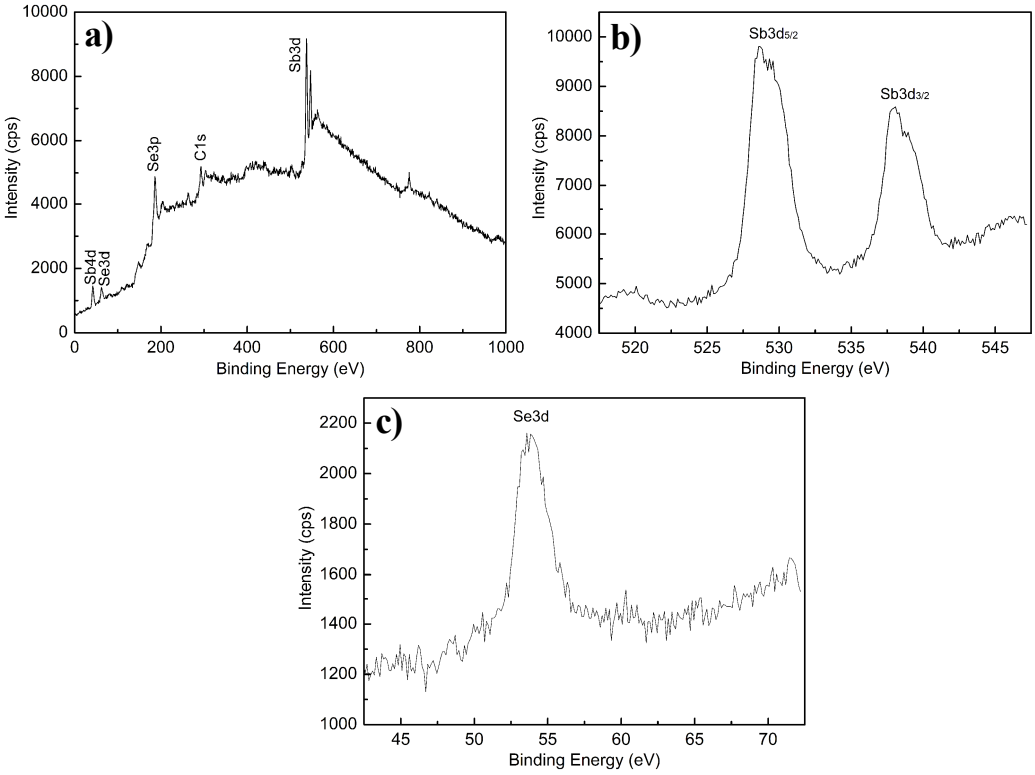

Fig. S2 XPS data from the surface of the obtained Sb_2Se_3 ultralong nanobelt: a) the whole-range spectrum; b) Sb 3d core-level spectrum; c) Se 3d core-level spectrum.

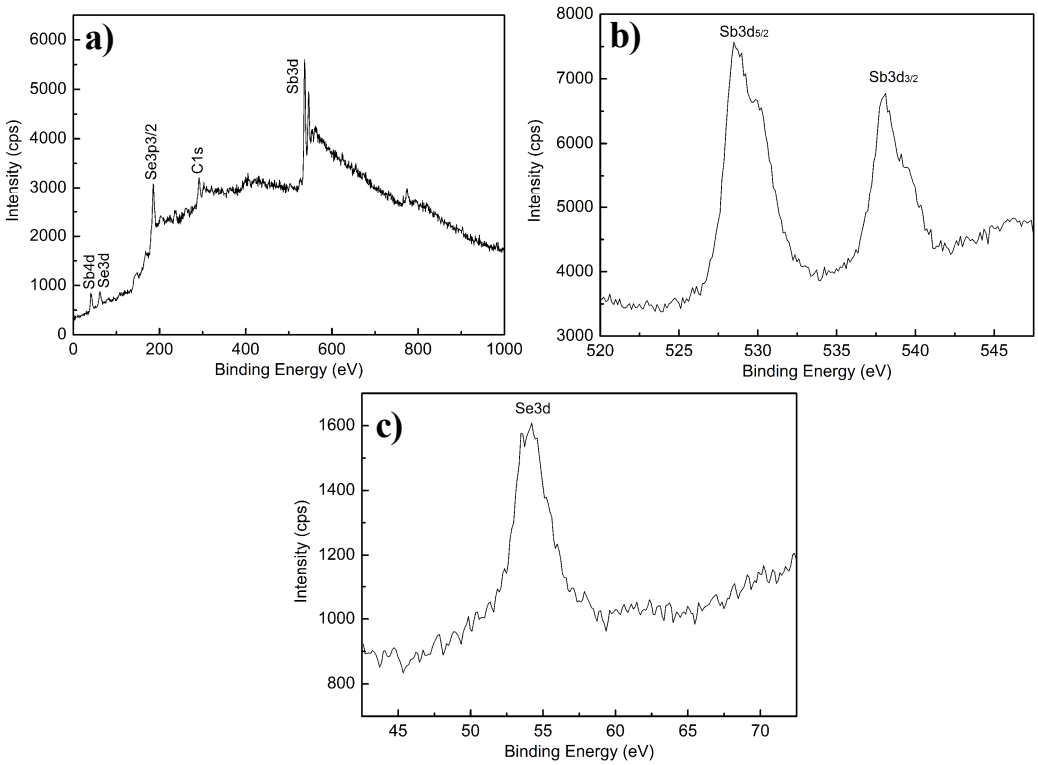

Fig. S3 XPS data from the surface of the obtained urchin like Sb_2Se_3: a) the whole-range spectrum; b) Sb 3d core-level spectrum; c) Se 3d core-level spectrum.

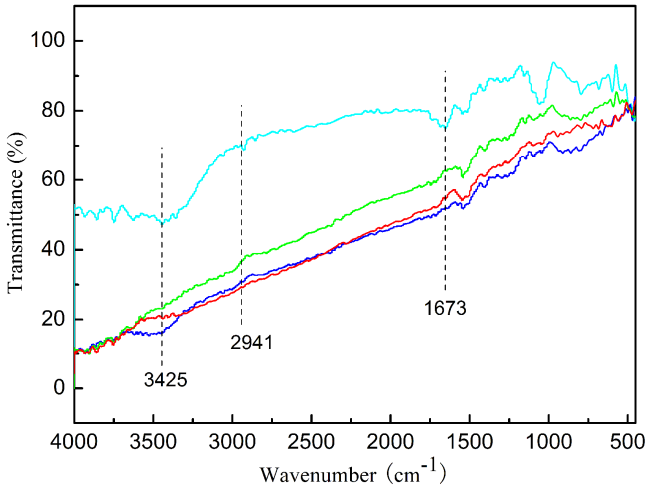

Fig. S4 FT-IR spectra of the samples prepared with different amount of citric acid: a) 0 g (green), b) 0.2 g (red), c) 0.4 g (blue), d) 0.6 g (cyan).

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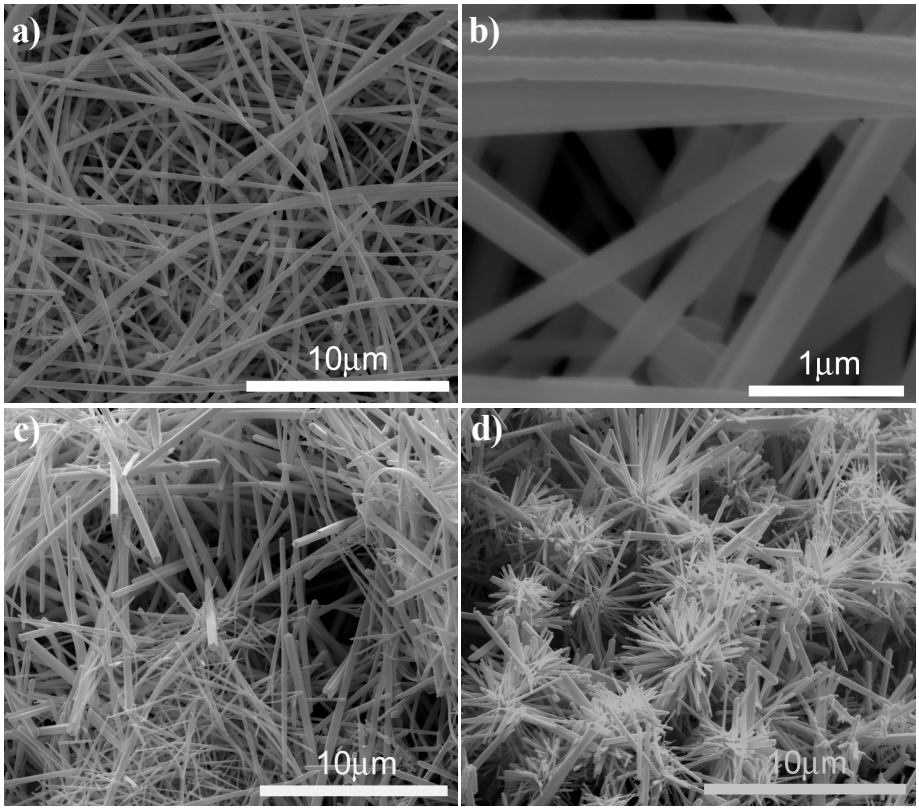

Fig. S5 FESEM images of the samples prepared by a solvothermal reaction in a mixed solvent at 180 ^{o}C for 18 h for different concentrations of glucose. a,b) 0.3 g; c) 0.9 g; d) 1.5 g.

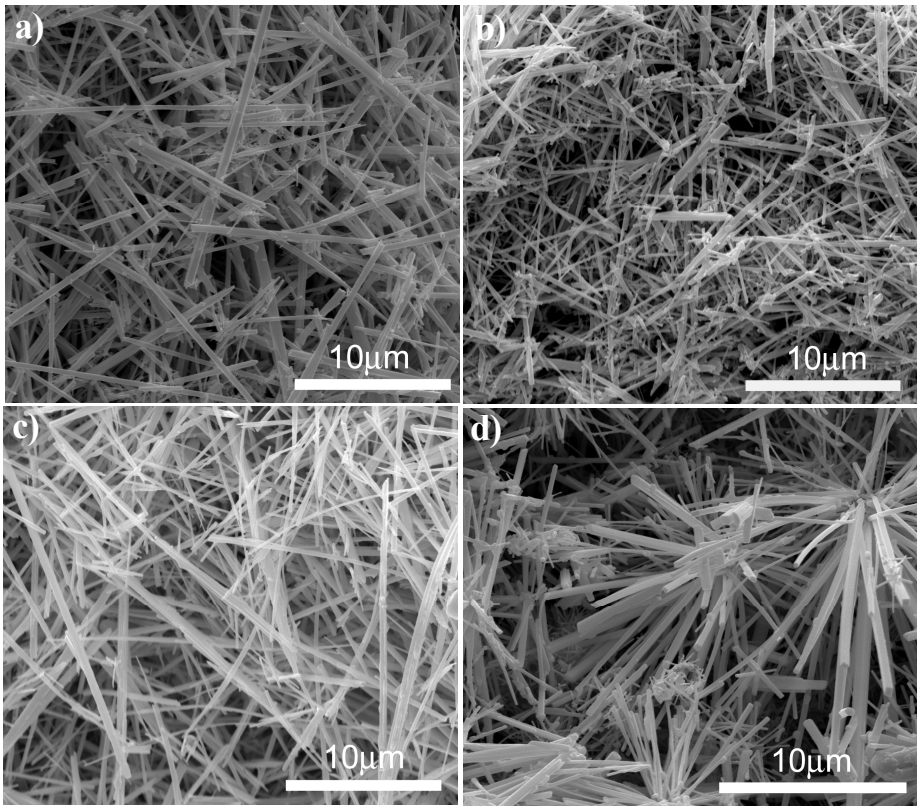

Fig. S6 FESEM images of the samples prepared by a solvothermal reaction with the addition of different volumes of ethylene glycol. a) 0 mL; b) 10 mL; c) 15 mL; d) 30 mL.