

Controlled Solvothermal Synthesis of Single-crystal Tellurium Nanowires, Nanotubes and Trifold Tellurium Structures and Their Photoelectrical Properties

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Supplementary Information

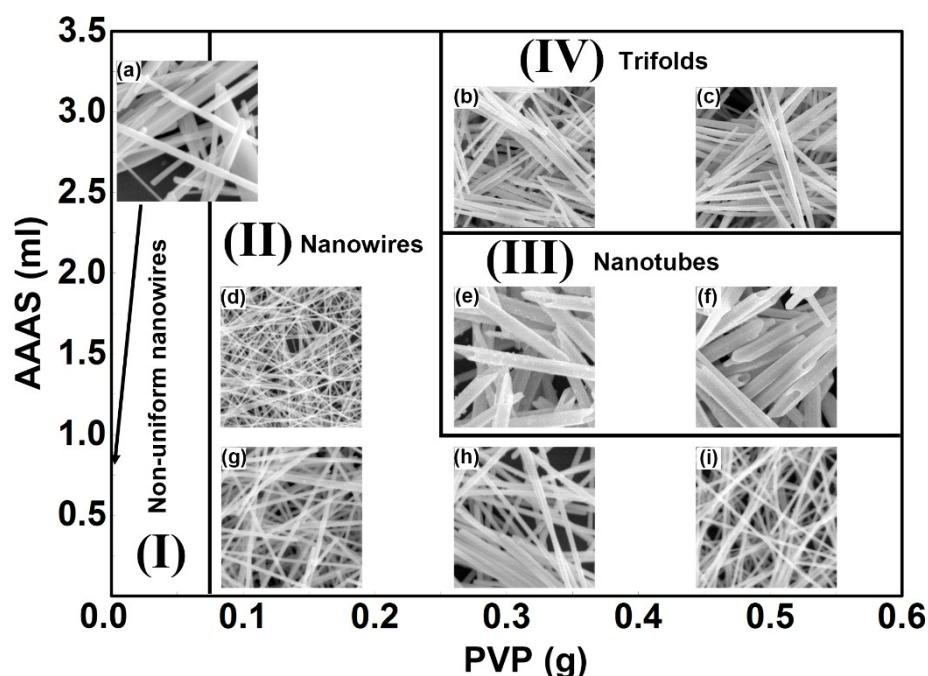


Figure S1. Morphology evolution of the Te nanostructures prepared at 150 °C for 6 h. The content of AAAS and PVP are: (a) 0.75 ml/ 0 g; (b) 3.0 ml/ 0.3 g; (c) 3.0 ml/ 0.5 g; (d) 1.5 ml/ 0.1 g; (e) 1.5 ml/ 0.3 g; (f) 1.5 ml/ 0.5 g; (g) 0.75 ml/ 0.1 g; (h) 0.75 ml/ 0.3 g; (i) 0.75 ml/ 0.5 g.

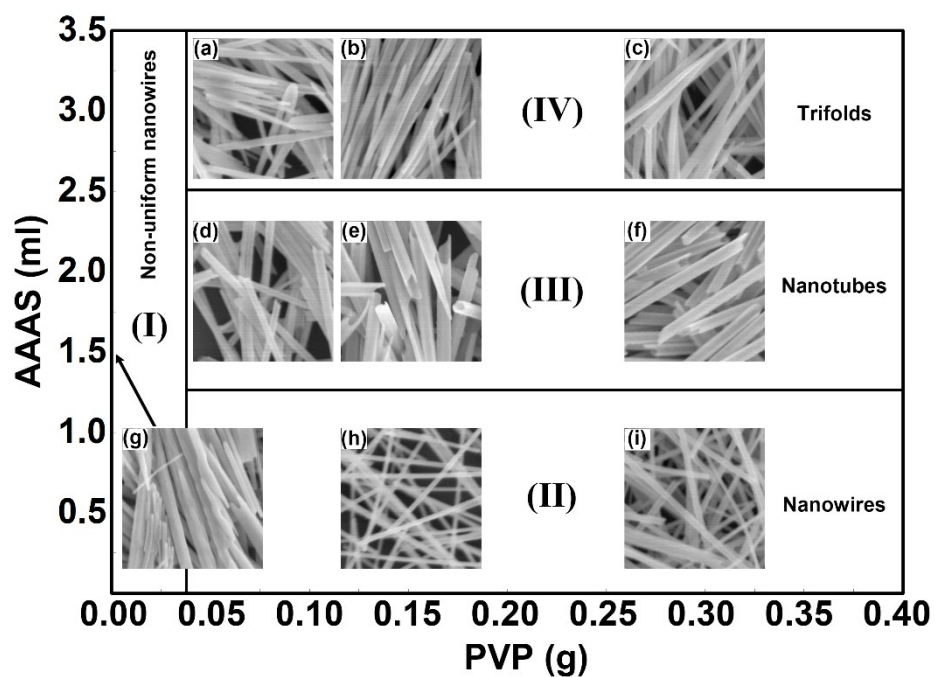


Figure S2. Morphology evolution of the Te nanostructures prepared at 120 °C for 6 h. (a) The content of AAAS and PVP are: (a) 3.0 ml/ 0.05 g; (b) 3.0 ml/ 0.1 g; (c) 3.0 ml/ 0.3 g; (d) 1.5 ml/ 0.05 g; (e) 1.5 ml/ 0.1 g; (f) 1.5 ml/ 0.3 g; (g) 1.5 ml/ 0 g; (h) 0.75 ml/ 0.1 g; (i) 0.75 ml/ 0.3 g.

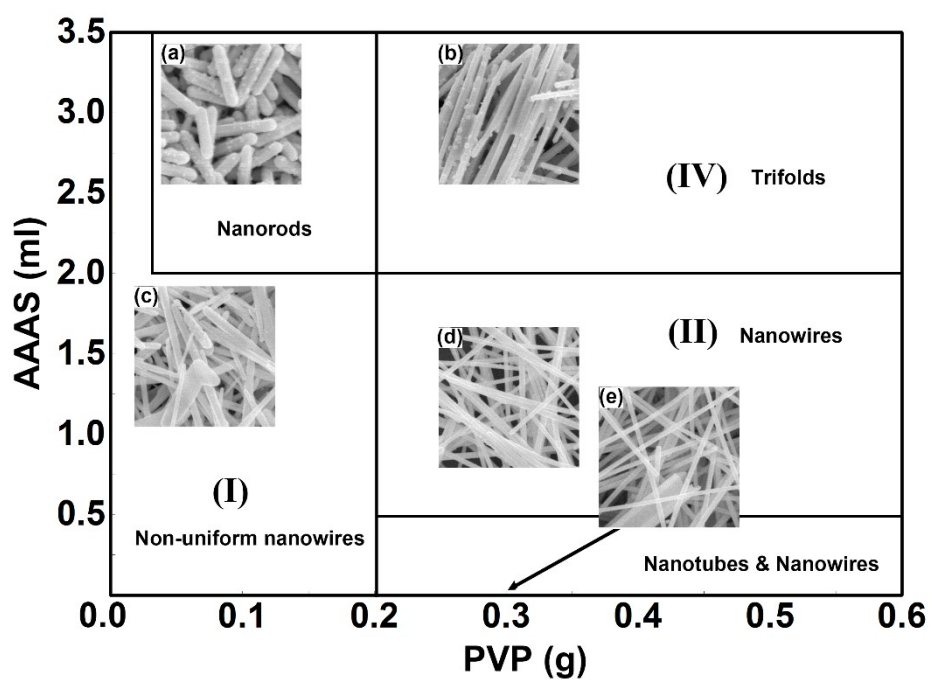


Figure S3. Morphology evolution of the Te nanostructures prepared at 180 °C for 6 h. The content of AAAS and PVP are: (a) 3.0 ml/ 0.1 g; (b) 3.0 ml/ 0.3 g; (c) 1.5 ml/ 0.05 g; (d) 0.75 ml/ 0.3 g; (e) 0 ml/ 0.3 g.

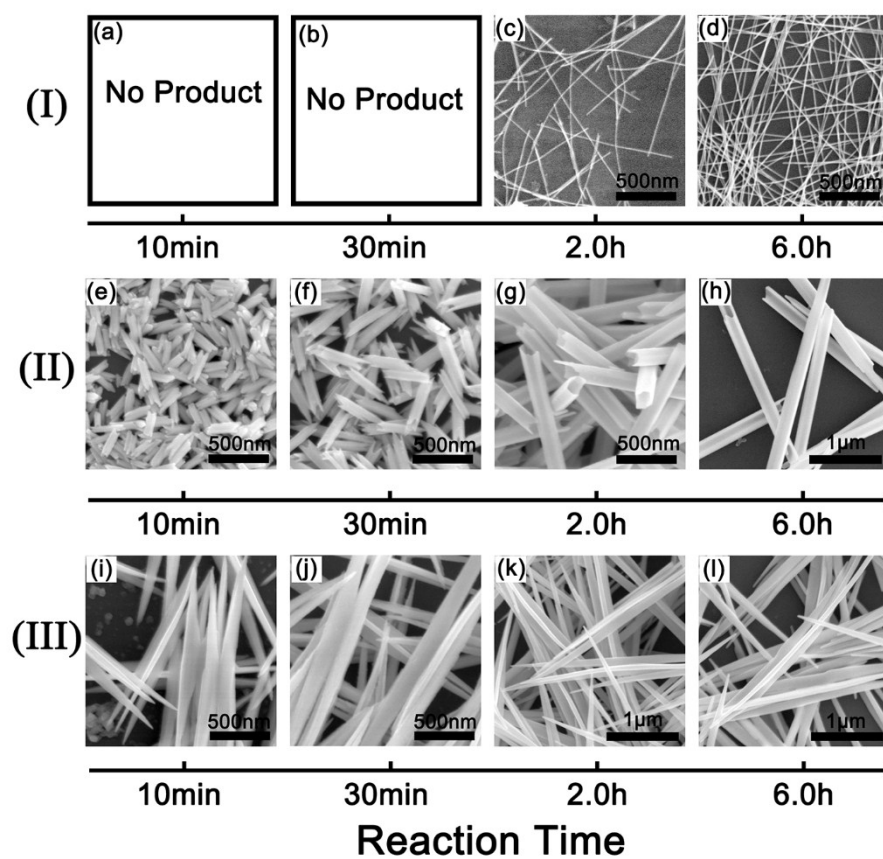


Figure S4 SEM images of the Te nanowires (I), nanotubes (II) and trifold (III) under different reaction time. (e, i) 10 min; (f, j) 30 min; (c, g, k) 2.0 h; (d, h, l) 6.0 h.