

## Controlled Synthesis of Tellurium Nanowires

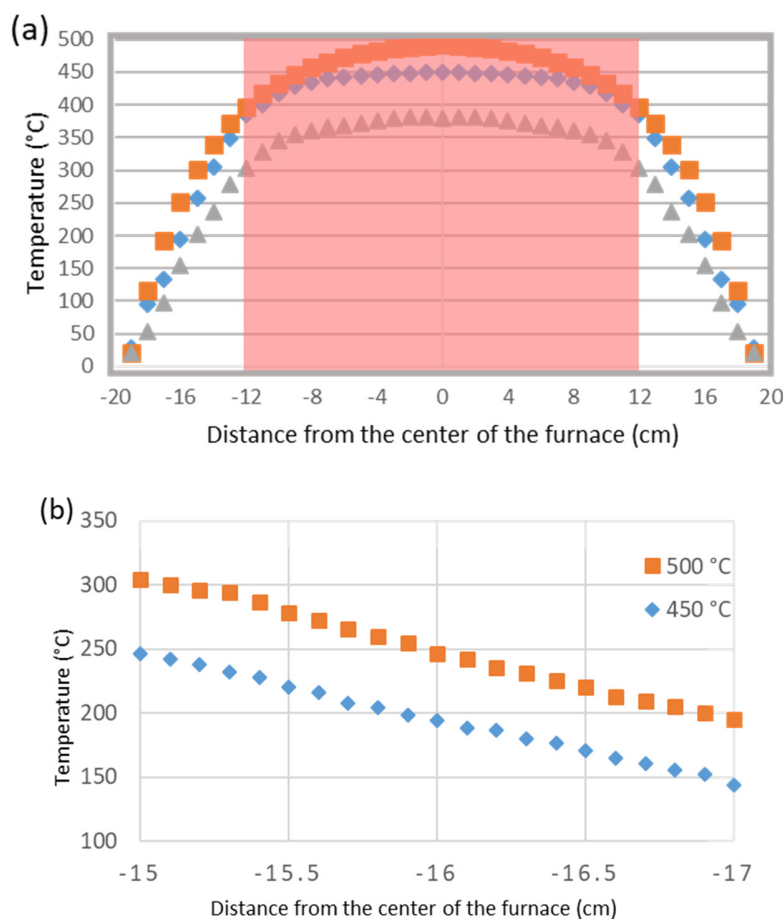
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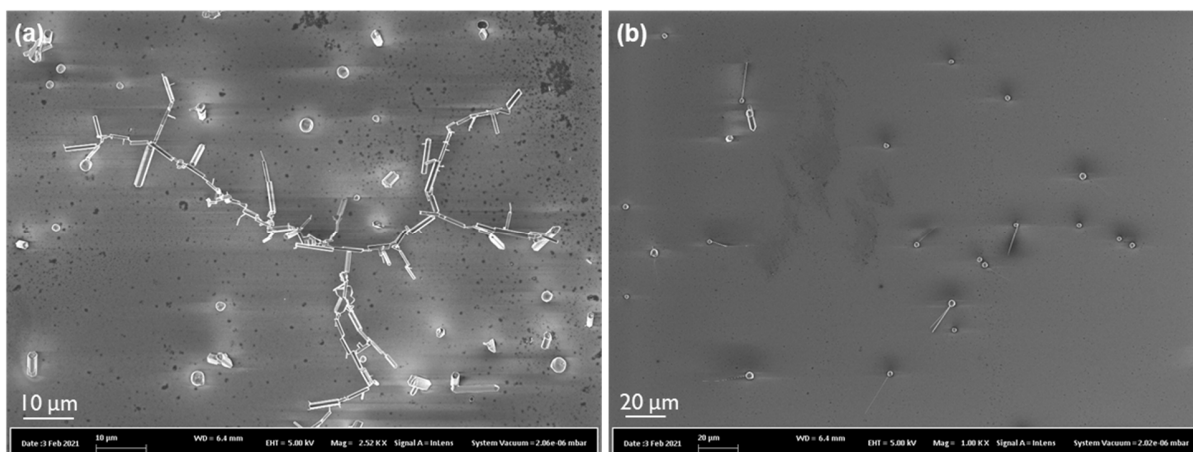
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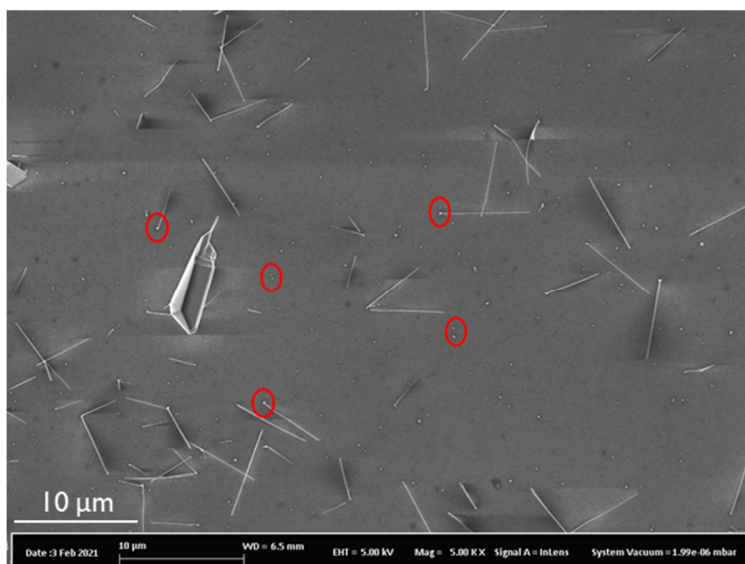
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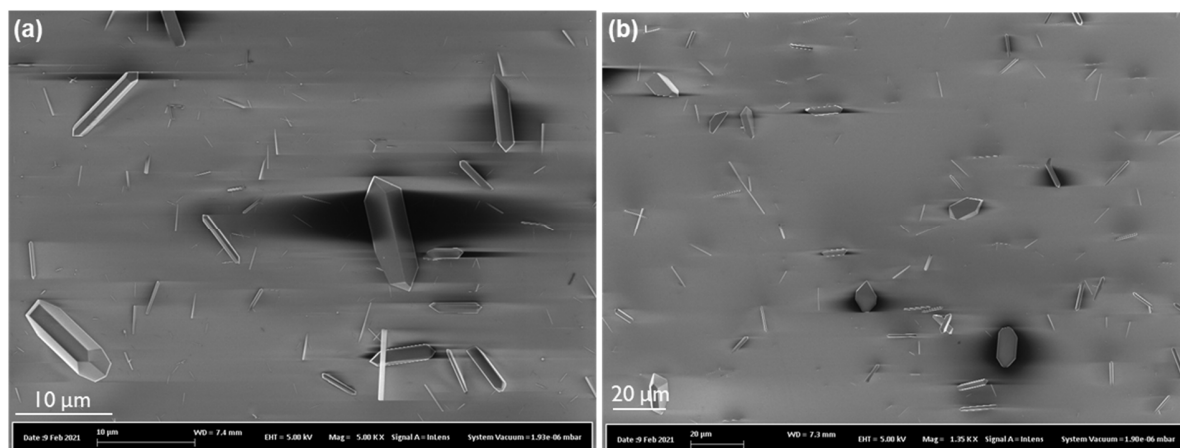
**Figure S1.** (a) Temperature profile in the experimental setup for different temperatures 500 °C (orange squares), 450 °C (blue diamonds), and 380 °C (gray triangles). (b) Detail temperature profile near 16cm. The red square in (a) represent the hot zone of the oven.



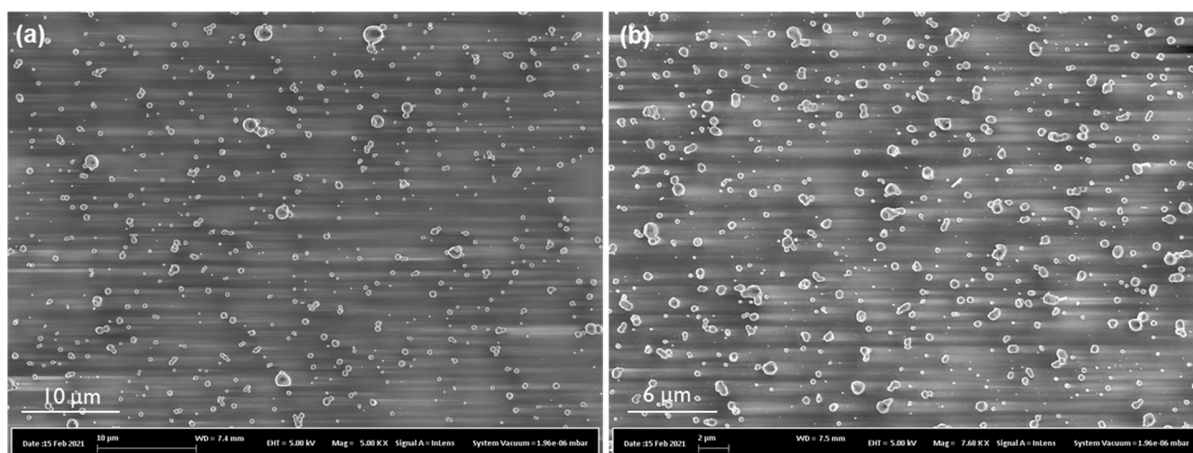
**Figure S2.** SEM images of sample Te-A2 taken with (a) 2.5KX and (b) 1.0KX magnifications.



**Figure S3.** SEM image on sample Te-A2. Red circles denote the nanoparticles giving rise to the nanowires.



**Figure S4.** SEM images of sample Te-A1.



**Figure S5.** SEM images of sample Te-A5