Supporting information for

Size-tunable synthesis of SiO$_2$ nanotubes via a simple in-situ-template-like process

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Figure S1. TEM image of a “H” shape SiO$_2$ nanotube. (b) TEM image of a “Y” shape SiO$_2$ nanotube. (i) TEM image of a “Y” shape SiO$_2$ nanotube with partially filled with ZnS nanowire.
**Figure S2.** EDS spectrum taken from the inner particle of the partially filled SiO$_2$ nanotubes, indicating that the inner particles are ZnS.

**Figure S3.** SEM image showing the Ga-attached tip of a SiO$_2$ micro-rod.
Figure S4. High-magnification SEM image showing the high-aligned SiO$_2$ nanowires.

Figure S5. SEM images with different magnifications of the fluffy SiO$_2$ spheres. The SAED pattern shows the amorphous state of these spheres.