Electronic Supplementary Information

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**Manuscript Title:** Catalytic synthesis and growth mechanism of SiC@SiO$_2$ nanowires and their photoluminescence properties

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![Image: FESEM image and mapping EDS results of the as-formed nanowires.](image)

**Fig. S1.** (a) FESEM image and (b) mapping EDS results of the as-formed nanowires.

![Image: FESEM image and EDS pattern of the cross-section areas on the Si substrate.](image)

**Fig. S2.** (a) FESEM image and (b) EDS pattern of the cross-section areas on the Si substrate.