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Supplementary information

Scalable Colloidal Synthesis of Uniform Bi₂S₃ Nanorods as Sensitive Material for Visible-Light Photodetectors

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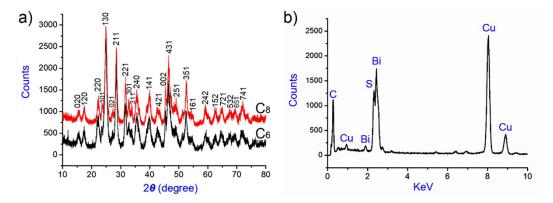


Fig. S1 a) XRD results of Bi_2S_3 nanorods prepared using OLA mixed with octylamine (C_8) and hexylamine (C_6); b) EDS spectrum of Bi_2S_3 nanorods.

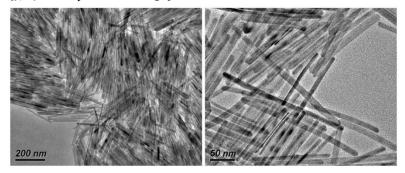


Fig. S2 TEM images of Bi_2S_3 nanorods prepared at 200 °C for 1 h in OLA mixed with dodecylamine (C_{12}).

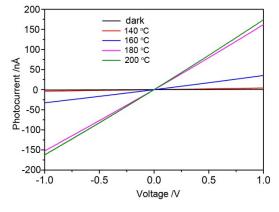


Fig. S3 I-V curves under the dark and white light for Bi_2S_3 nanorods prepared in the mixture of oleylamine and dodecylamine (C_{12}) at 140, 160, 180 and 200 °C.