

Electronic Supplementary Information (ESI)

Near-infrared optical performances of two Bi₂Se₃ nanosheets

Hanhan Xie^a, Jundong Shao^b, Jiahong Wang^{*b}, Zhengbo Sun^b, Xue-Feng Yu^{*b} and Qu-Quan Wang^{*a}

^aDepartment of Physics, Key Laboratory of Artificial Micro- and Nano-structures of Ministry of Education and School of Physics and Technology, Wuhan University, Wuhan 430072, China. E-mail: qqwang@whu.edu.cn

*^bInstitute of Biomedicine and Biotechnology, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen 518055, P. R. China
E-mails: xf.yu@siat.ac.cn, jh.wang1@siat.ac.cn*

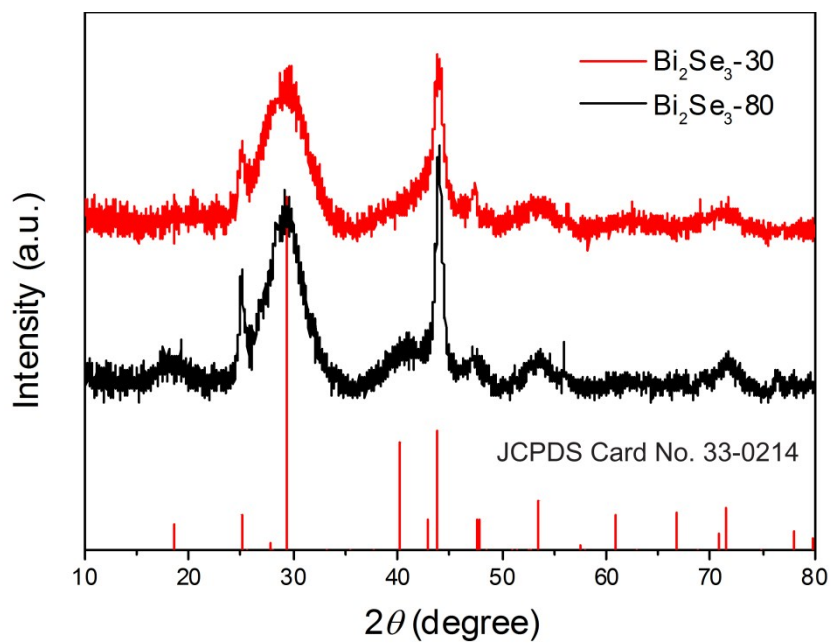


Fig. S1. XRD patterns of the two Bi_2Se_3 nanosheets.

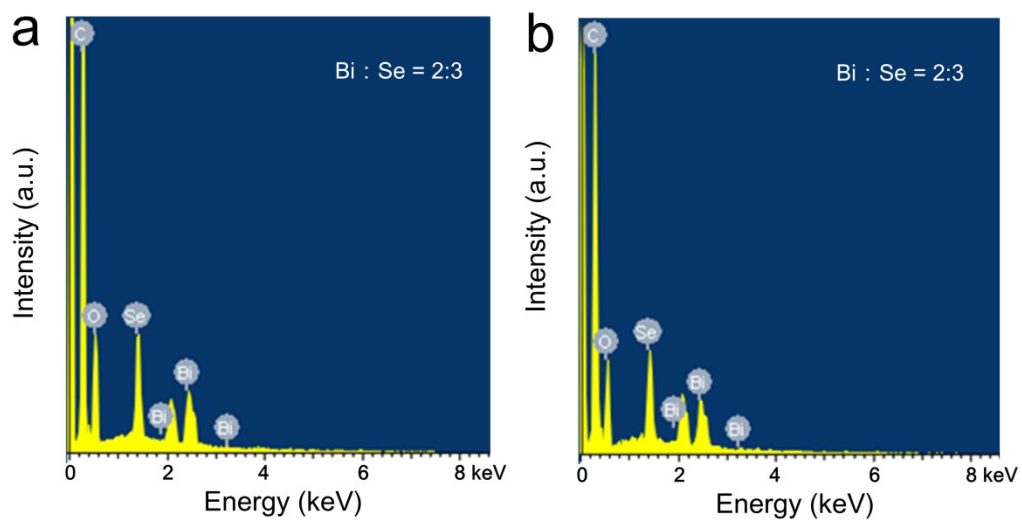


Fig. S2. EDS spectra of (a) Bi₂Se₃-30 and (b) Bi₂Se₃-80 nanosheets.

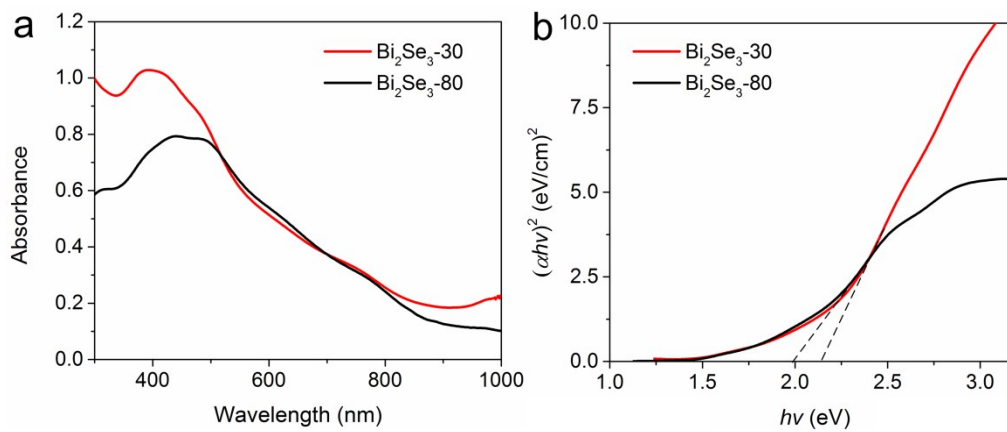


Fig. S3. (a) Absorption spectra of the two Bi₂Se₃ nanosheets. (b) Plots of $(\alpha hv)^2$ vs. hv of the two Bi₂Se₃ nanosheets.

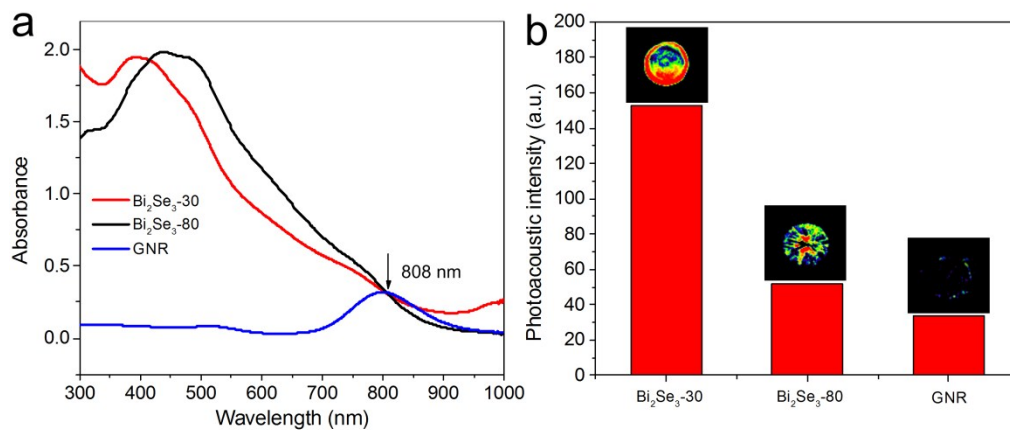


Fig. S4. (a) Absorption spectra of the two Bi₂Se₃ nanosheets and GNRs with same intensities at 808 nm. (b) Corresponding photoacoustic images and quantitative intensities of the two Bi₂Se₃ nanosheets and GNRs.