

Supporting Information

Ferroelectric enhanced Ga₂O₃/BFMO-based deep ultraviolet photovoltaic detectors with dual electric fields for photogenerated carriers separation

Yingying Cheng, Jiaxing Mao, Hongyi Zhu, Yanhui Dong, Jian Chen,* Mingkai Li,
Yinmei Lu,* Yunbin He*

Ministry of Education Key Laboratory of Green Preparation and Application for Functional Materials, Hubei Key Laboratory of Ferro & Piezoelectric Materials and Devices, Hubei Key Laboratory of Polymer Materials, School of Materials Science and Engineering, Hubei University, Wuhan 430062, China.

*Corresponding authors :ybhe@hubu.edu.cn (Y. He); yinmei_lu@hubu.edu.cn (Y. Lu); Phychenjian@163.com (J. Chen)

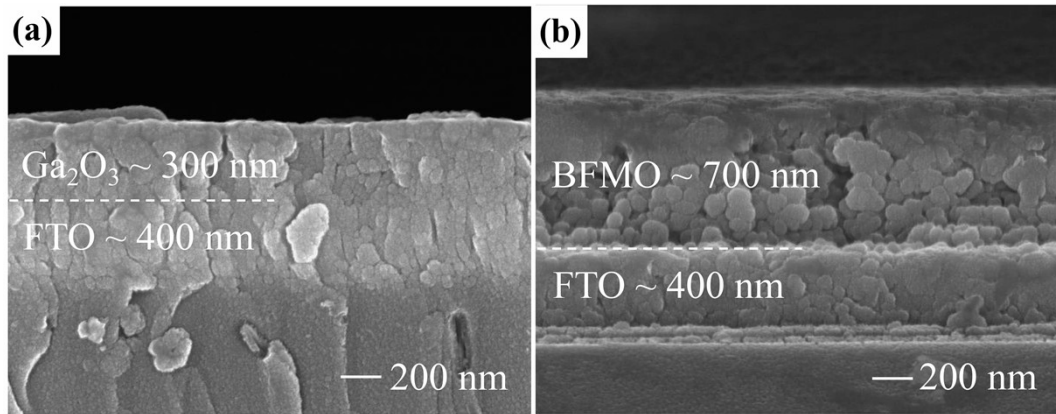


Fig. S1. Cross-sectional images of the (a) Ga_2O_3 and (b) BFMO thin films.

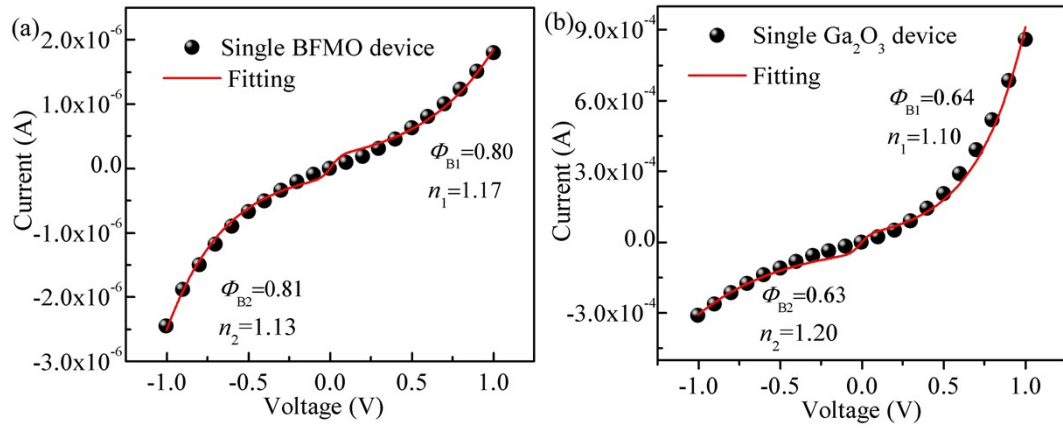


Fig. S2. Current-voltage (I - V) curves of the (a) Ga_2O_3 and (b) BFMO devices under dark and their fits.