

Supplementary Information for Optical Properties of $\text{In}_{2x}\text{Ga}_{2-2x}\text{O}_3$ Nanowires Revealed by Photoacoustic Spectroscopy

Szymon J. Zelewski,^{*,‡} Ziyao Zhou,^{¶,§} Fangzhou Li,[¶] Xiaolin Kang,[¶] You Meng,[¶] Johnny C. Ho,^{*,¶,§}
and Robert Kudrawiec^{*,‡}

[‡] *Faculty of Fundamental Problems of Technology, Wrocław University of Science and Technology,
Wybrzeże Wyspiańskiego 27, 50-370 Wrocław, Poland*

[¶] *Department of Materials Science and Engineering, City University of Hong Kong, 83 Tat Chee
Avenue, Kowloon, Hong Kong SAR, P. R. China*

[§] *Shenzhen Research Institute, City University of Hong Kong, Shenzhen 518057, P. R. China*

Corresponding E-mail: szymon.zelewski@pwr.edu.pl; johnnyho@cityu.edu.hk;
robert.kudrawiec@pwr.edu.pl

Keywords: In_2O_3 , Ga_2O_3 , InGaO , nanowire, photoacoustic spectroscopy

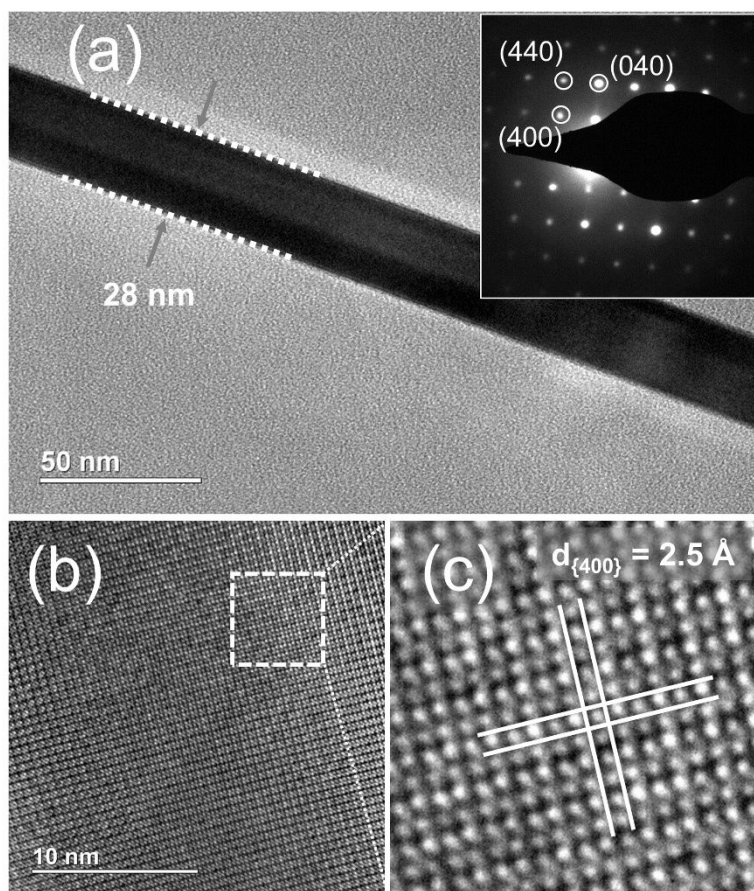


Figure S1. (a) TEM image and (inset) the corresponding SAED patterns of $\text{In}_{1.8}\text{Ga}_{0.2}\text{O}_3$ NWs. (b) and (c) HRTEM images of $\text{In}_{1.8}\text{Ga}_{0.2}\text{O}_3$ NWs.

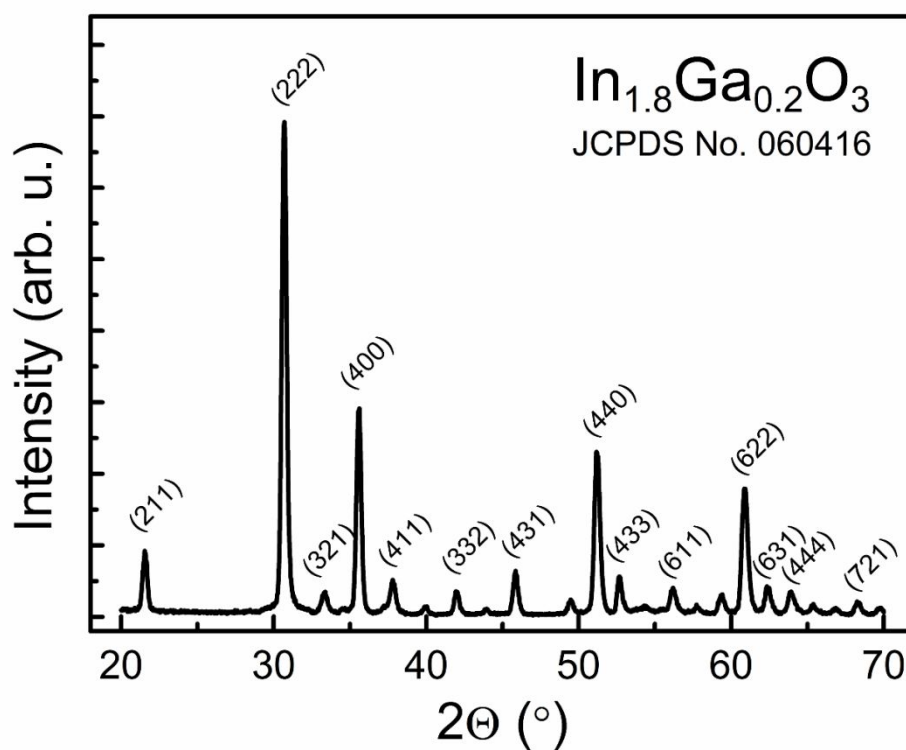


Figure S2. XRD patterns of the obtained $\text{In}_{1.8}\text{Ga}_{0.2}\text{O}_3$ NWs.

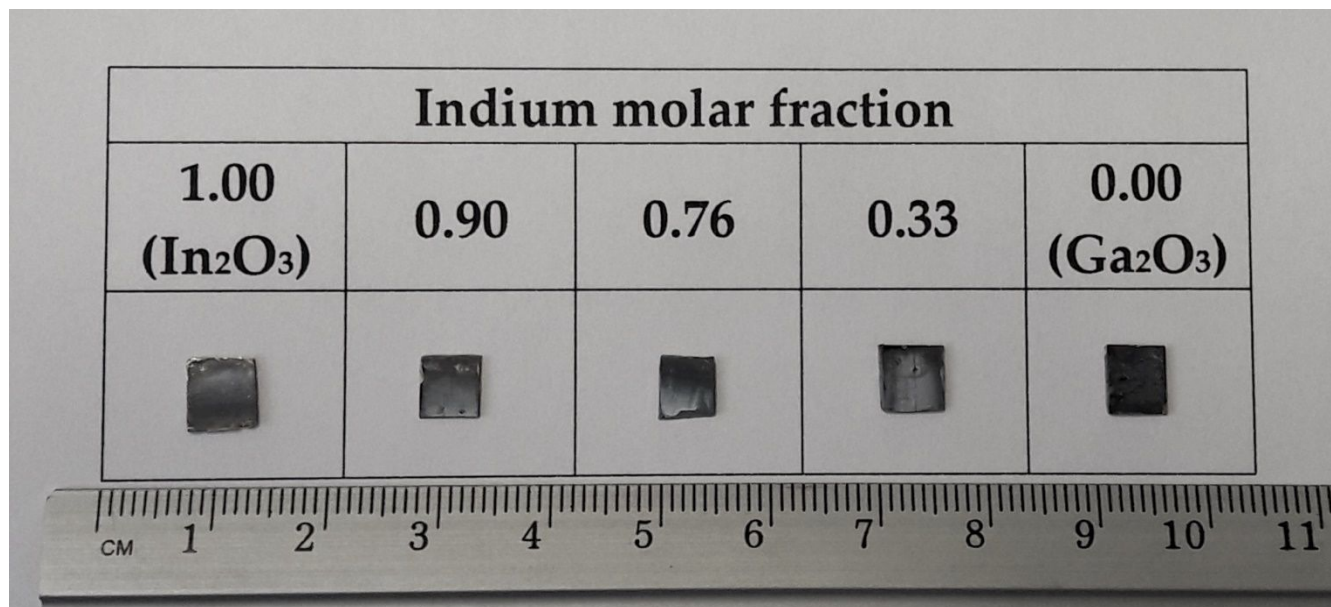


Figure S3. Photograph of the In₂O₃, Ga₂O₃, and mixed In_{2x}Ga_{2-2x}O₃ samples.

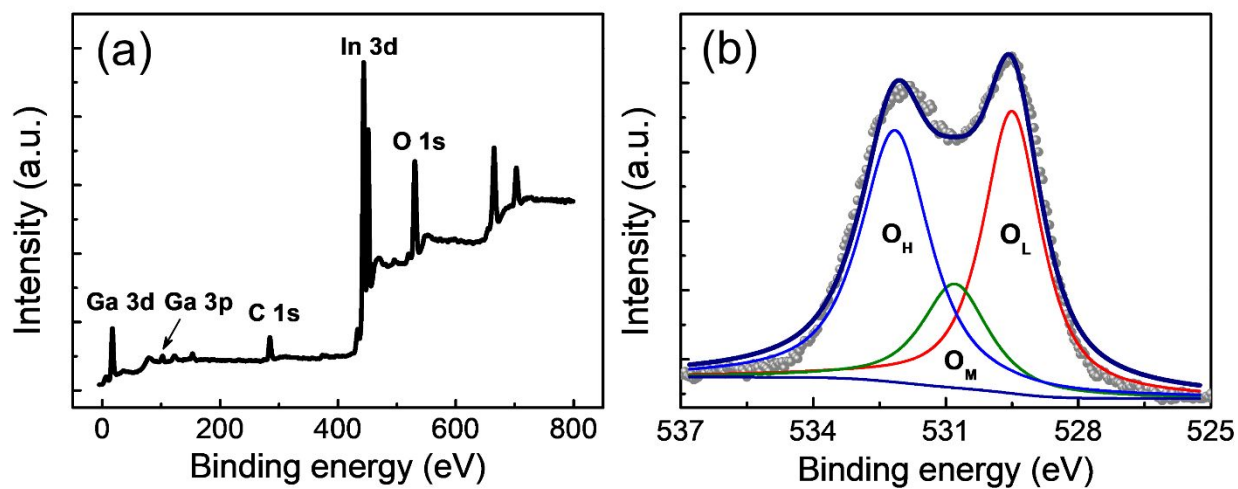


Figure S4. (a) XPS wide scans and (b) O 1s peak analysis of In_{1.8}Ga_{0.2}O₃ NWs.