

Article

# Inkjet-Printed Top-Gate Thin-Film Transistors Based on InGaSnO Semiconductor Layer with Improved Etching Resistance

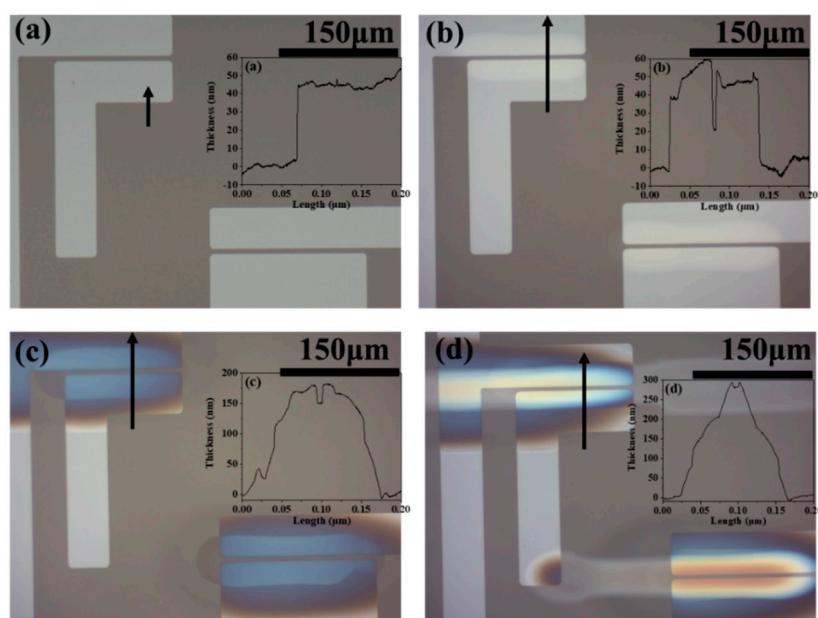
Siting Chen <sup>1</sup>, Yuzhi Li <sup>1</sup>, Yilong Lin <sup>1</sup>, Penghui He <sup>1</sup>, Teng Long <sup>1</sup>, Caihao Deng <sup>1</sup>, Zhuo Chen <sup>1</sup>, Geshuang Chen <sup>1</sup>, Hong Tao <sup>1,2,\*</sup>, Linfeng Lan <sup>1,\*</sup> and Junbiao Peng <sup>1</sup>

<sup>1</sup> State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China; eleven-9612@foxmail.com (S.C.); liyuzhi1991@foxmail.com (Y.L.); 13060656782@163.com (Y.L.); hepenghui60@foxmail.com (P.H.); longteng930104@163.com (T.L.); dengcaihao@outlook.com (C.D.); mschenzhuo@mail.scut.edu.cn (Z.C.); psjbpeng@scut.edu.cn (J.P.)

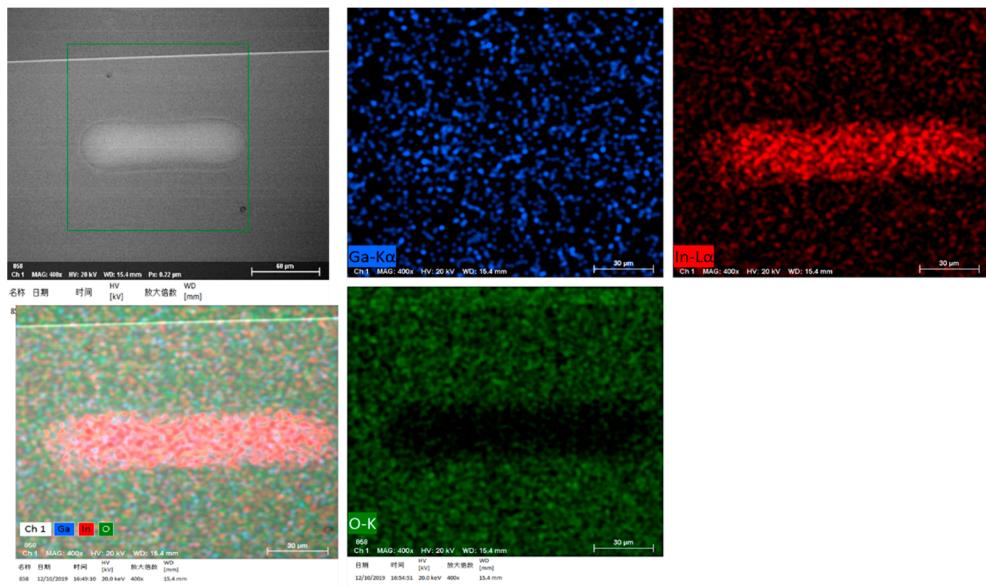
<sup>2</sup> Guangzhou New Vision Optoelectronic Co., Ltd., Guangzhou 510530, China

\* Correspondence: th@newvision-cn.com (H.T.); lanlinfeng@scut.edu.cn (L.L.)

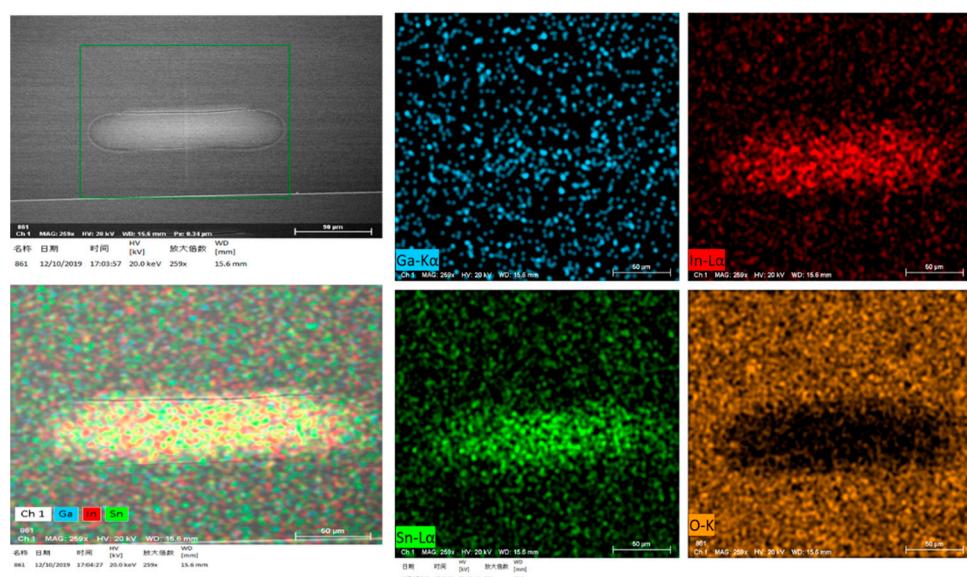
Received: 29 March 2020; Accepted: 22 April 2020; Published: 24 April 2020



**Figure S1:** The Dektak step profiling lines for (a) ITO S/D, (b) InGaSnO semiconductor, (c) AlO<sub>x</sub> insulator, and (d) ITO gate.



**Figure S2:** SEM image and the energy-dispersion x-ray spectroscopy (EDS) element distribution maps of the InGaO film.



**Figure S3:** SEM image and the EDS element distribution maps of the InGaSnO film.



© 2020 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).