

# Supplementary Information

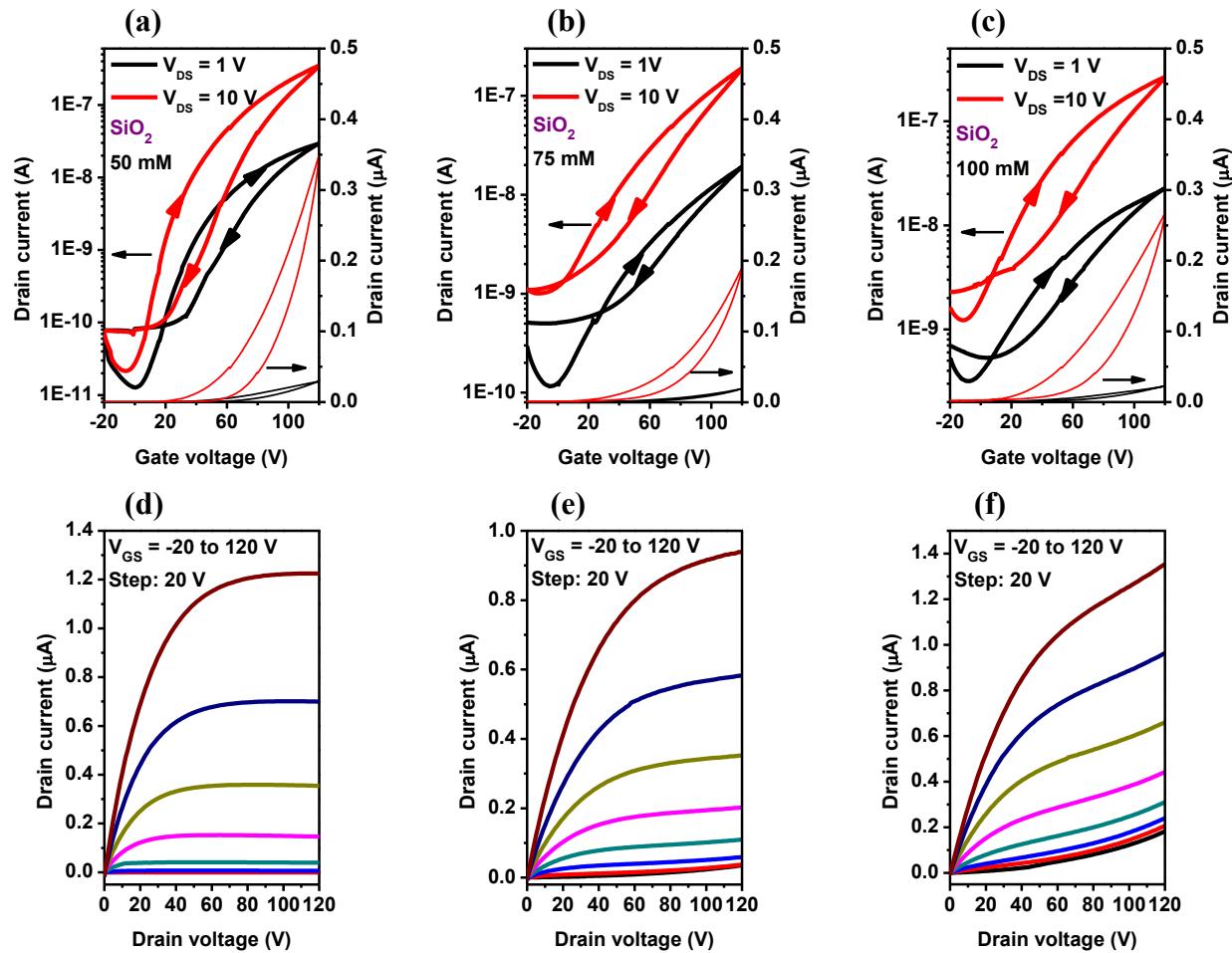
## Improved Electrical Properties of EHD Jet-Patterned MoS<sub>2</sub> Thin-Film Transistors with Printed Ag Electrodes on a High-k Dielectric

Thi Thu Thuy Can <sup>†</sup> and Woon-Seop Choi <sup>\*</sup>

School of Electronics and Display Engineering, Hoseo University, Asan 31499, Republic of Korea;

<sup>\*</sup>Correspondence: wschoi@hoseo.edu

<sup>†</sup>Current address: Faculty of Physics, Hanoi National University of Education, Hanoi, Vietnam



**Figure S1.** (a-c) Transfer characteristic curves with hysteresis behavior and (d-f) output characteristic curves of SiO<sub>2</sub>-based MoS<sub>2</sub> TFTs prepared from 50 mM, 75 mM and 100 mM solution concentrations.

**Table S1** Characteristics of the SiO<sub>2</sub>-based printed MoS<sub>2</sub> TFTs.

G/I	Concentration [mM]	I <sub>on</sub> /I <sub>off</sub>	S-S [V dec <sup>-1</sup> ]	μ [cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> ]	Hysteresis [V]
SiO <sub>2</sub>	50	(1.2±0.8)×10 <sup>4</sup>	15.5±4.4	0.024±0.02	29.3±4.9
	75	(9.0±5.1)×10 <sup>1</sup>	53.2±10.3	0.0036±0.0013	17.6±3.6
	100	(9.6±5.5)×10 <sup>1</sup>	53±12	0.0072±0.0017	20.3±4.9