

Oral Presentation

## [FLX3]Printed TFT Technologies

Chair: Hiroki Meada (Dai Nippon Printing Co., Ltd.)

Co-Chair: Takashi Nagase (Osaka Prefecture University)

Fri. Nov 29, 2019 9:00 AM - 10:15 AM Room 107 (1F)

---

9:00 AM - 9:25 AM

### [FLX3-1(Invited)]Printed Thin Film Transistors using Semi-conductive Single Wall Carbon Nanotube-Polymer Complexes

\*Seiichiro Murase<sup>1</sup>, Kazuki Isogai<sup>1</sup>, Takayoshi Hirai<sup>1</sup>, Yasuhiro Kobayashi<sup>1</sup>, Kenta Noguchi<sup>1</sup>, Hiroji Shimizu<sup>1</sup> (1. Toray Industries, Inc. (Japan))

Keywords:Carbon nanotube, CNT-TFT, Printed circuit

*We have achieved high performance on printed TFTs with a mobility up to 155 cm<sup>2</sup>/Vs, which is world leading level performance as a printed TFT, using highly enriched semi-conductive single wall carbon nanotube (SWCNT) and semi-conductive polymer complexes. This technology can be applied to various IoT devices.*