

2024년 1월 24일(수)-26일(금) | 경주화백컨벤션센터(HICO)

2024년 1월 26일(금), 13:45-15:30 Room J(204),2층

D. Thin Film Process Technology 분과

[FJ2-D] Thin Film Transistors - I

좌장: 안지훈 교수(한양대학교), 백인환 교수(인하대학교)

FJ2-D-1 13:45-14:00	Performance Enhancement of In-Ga-Zn-O Vertical-channel TFTs with
	a Channel Length of 40 nm via Al_2O_3 Spacer Engineering
	Chae-Eun Oh ¹ , Young-Ha Kwon ² , Nak-Jin Seong ² , Kyu-Jeong Choi ² , and Sung-Min
	Yoon ¹
	¹ Kyung Hee University, ² NCD Co., Ltd.
	Back-End-of-Line Compatible AI_2O_3 Passivated p-Type Copper(I) Oxide
FJ2-D-2 14:00-14:15	Thin Film Transistors with Enhanced Current On/Off Ratio
	Seohyeon Park ¹ , Jaewook Yoo ¹ , Hyeonjun Song ¹ , Soyeon Kim ¹ , Hongseung Lee ¹ ,
	Seongbin Lim ¹ , Minah Park ¹ , Peide D. Ye ² , and Hagyoul Bae ¹
	¹ Jeonbuk National University, ² Purdue University
	IGZO 2TOC DRAM with Normally-off Operation Using Interfacial Dipole
	Suwon Seong ¹ , Seongmin Park ¹ , Taejun Ha ¹ , Hyunyoung Cho ¹ , Daehwan Kang ^{2,3} ,
FJ2-D-3	and Yoonyoung Chung ^{1,2,3}
14:15-14:30	¹ Department of Electrical Engineering, POSTECH, ² Department of Semiconductor
	Engineering, POSTECH, ³ Center for Semiconductor Technology Convergence,
	POSTECH
	High-performance Graphene-Based Field Effect Transistors Fabricated
	by UV-assisted Atomic Layer Deposition
FJ2-D-4	Geonwoo Park ¹ , Jeong Woo Shin ² , Dohyun Go ³ , and Jihwan An ⁴
14:30-14:45	¹ Manufacturing Systems and Design Engineering, SEOULTECH, ² Department of
	Mechanical Engineering, Nanyang Technological University, ³ Department of
	Chemistry, U.C. San Diego, ⁴ Department of Mechanical Engineering, POSTECH
	The C-V-Based Investigation of Capacitive Coupling in the Sub-micron
FJ2-D-5 14:45-15:00	Amorphous InGaZnO Thin-film Transistors Depending on the Device
	Structure, Gate Dielectric Material, and Anneal Temperature
	Sae Him Jung ¹ , Seung Joo Myoung ¹ , Donguk Kim ¹ , Sangwook Kim ² , Kwang-Hee
	Lee ² , Moonil Jung ² , Narae Han ² , Jee-Eun Yang ² , Younjin Jang ² , and Dae Hwan
	¹ School of Electrical Engineering, Kookmin University, ² SAIT

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FJ2-D-6 15:00-15:15	Investigating Defects on Channel Surface of IGZO Thin-film Transistors under Ozone Annealing and UV Treatment Myeong Woo Ju ^{1,2} , Changyong Oh ^{1,2} , Taehyeon Kim ³ , Min Young Kim ¹ , So Hee Park ¹ ,Geon Hyeong Lee ¹ , and Bo Sung Kim ^{1,2}
	Korea University, ³ Memory Diffusion Technology Team, Samsung Electronics Co., Ltd.
FJ2-D-7 15:15-15:30	Rapid Thermal Annealing (RTA) to Recover the Radiation Damage of
	a-IGZO TFTs for Highly Reliable DRAM Cell Transistors
	Minah Park, Jaewook Yoo, Hyeonjun Song, Soyeon Kim, Hongseung Lee, Seongbin
	Lim, Seohyeon Park, Yoon Kyeung Lee, Keun Heo, and Hagyoul Bae
	Jeonbuk National University