2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

Future Normal in Semiconductor

2025년 2월 13일(목), 10:55-12:40 Room F(사파이어 I), 5층

C. Material Growth & Characterization 분과

O18_[TF2-C] Characterization of Oxide Heterostructures for Advanced Applications

좌장: 김우진 교수(부산대학교), 김지운 교수(KAIST)

	작경. 삼우산 포구(구산대역포), 삼시군 포구(NAIST)
초청 TF2-C-1 10:55-11:25	In-situ/Operando Analysis of Topotactic Phase Transition in Complex Oxides Dooyong Lee Department of Physics Education, Kyungpook National University
TF2-C-2 11:25-11:40	Spatially-Resolved Mapping of Ferroelectric Phase Transition in Two-Dimensional Halide Perovskite Tae Hyun Jung, Yunseung Kuk, Sang Woo Lee, Sung Bin Bae, June Hee Shin, Kang Min Ok, and Sang Mo Yang Sogang University
TF2-C-3 11:40-11:55	Advanced Spectroscopic Methods for Probing In-Gap Defect States in Amorphous SiNx for Charge Trap Memory Applications Hyun Don Kim ^{1,2} , Minseon Gu ¹ , Kyu-Myung Lee ³ , Hanyeol Ahn ¹ , Jinwoo Byun ⁴ , Gukhyon Yon ⁴ , Junghyun Beak ^{1,2} , Hyeongjoon Lim ^{1,2} , Jaemo Jung ^{1,2} , Jaehyeon Park ^{1,2} , Jwa Soon Kim ⁵ , HaeJoon Hahm ⁵ , Soobang Kim ⁵ , Won Ja Min ⁵ , Moon Seop Hyun ⁶ , Yun Chang Park ⁶ , Gyungtae Kim ⁶ , Y ¹ Department of Physics, University of Seoul, ² Department of Smart Cities, University of Seoul, ³ Department of Physcis and Research Institute of Basic Sciences, Kyung Hee University, ⁴ Advanced Process Development Team, Semiconductor R&D Center, Samsung Electronics Co., Ltd., ⁵ HB Solution, ⁶ National NanoFab Center (NNFC), ⁷ Department of Information Display, Kyung Hee University, ⁸ Department of Intelligent Semiconductor Engineering, University of Seoul
TF2-C-4 11:55-12:10	DFT Study on Schottky Barrier Heights in MoS ₂ with Direct and van der Waals Contacts Hyunijn Lee ¹ , Soheil Ghods ^{1,2} , Jinuk Kwon ³ , Yoon Kyeung Lee ^{4,5} , Jae-Hyun Lee ² , Taehun Lee ^{4,6} , and Keun Heo ^{1,3} ¹ School of Semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Jeonbuk National University, ² Department of Materials Science and Engineering



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	and Department of Energy Systems Research, Ajou University, ³ School of
	Semiconductor Science & Technology, Jeonbuk National University, ⁴ School of
	Advanced Materials Engineering, Jeonbuk National University, ⁵ Department of Nano
	Convergence Engineering, Jeonbuk National University, ⁶ Hydrogen and Fuel Cell
	Research Center, Jeonbuk National University
	Impact of Bulk Traps on Polarization Switching in a-In ₂ Se ₃ Ferroelectric
	Semiconductor FETs by Frequency Dispersive C-V Characteristics
TF2-C-5	Minah Park ¹ , Sieun Lee ¹ , Jaewook Yoo ¹ , Seohyeon Park ¹ , Hongseung Lee ¹ , Hyeonjun
12:10-12:25	Song ¹ , Soyeon Kim ¹ , Seongbin Lim ¹ , Sojin Jung ¹ , TaeWan Kim ³ , Peide D. Ye ² , and
	Hagyoul Bae ¹
	¹ Jeonbuk National University, ² Purdue University, and ³ University of Seoul
	Temperature-dependent {111}-Texture Transfer to Hf _{0.5} Zr _{0.5} O ₂ Films from
	(111)-textured TiN Electrode and Its Impact on Ferroelectricity
TF2-C-6	Dong Hee Han ¹ , Seung Yeon Kim ² , Younghwan Lee ³ , Young Yong Kim ⁴ , Woojin Jeon ² ,
12:25-12:40	and Min Hyuk Park ^{1,5}
	¹ Seoul National University, ² Kyung Hee University, ³ Chonnam National University, ⁴ PAL,
	POSTECH, ⁵ Institute of Engineering Research, Seoul National University