



2020년 2월 14일(금), 10:45~12:30

Room J (하트 III, 6층)

D. Thin Film Process Technology 분과
[FJ2-D] 2-dimensional System II

FJ2-D-1 10:45~11:15	[초청] Epitaxial Oxide Thin Films for Novel Electronics Seung-Hyub Baek <i>Center for Electronics Materials, KIST</i>
FJ2-D-2 11:15~11:30	<i>In-situ</i> Observation of Two-Dimensional Electron Gas Creation at the Interface of an Atomic-Layer-Deposited Al₂O₃/TiO₂ Thin Film Heterostructure Tae Jun Seok ¹ , Yuhang Liu ¹ , Ji Hyeon Choi ¹ , Hye Ju Kim ² , Dae Hyun Kim ³ , Seong Hwan Kim ² , Jae Hyuck Jang ⁴ , Deok-Yong Cho ⁵ , Sang Woon Lee ² , and Tae Joo Park ^{1,3} ¹ <i>Department of Materials Science and Chemical Engineering, Hanyang University,</i> ² <i>Department of Energy Systems Research and Department of Physics, Ajou University,</i> ³ <i>Department of Advanced Materials Engineering, Hanyang University,</i> ⁴ <i>Electron Microscopy Research Center, KBSI, 5IPIT and Department of Physics, Chonbuk National University</i>
FJ2-D-3 11:30~11:45	Tailoring of Two-dimensional Electron Gas Density in Thin Film Oxide Heterostructure and its Application to Electronic Devices Seong Hwan Kim, Hye Ju Kim, Chang Hee Ko, and Sang Woon Lee <i>Department of Energy Systems Research and Department of Physics, Ajou University</i>
FJ2-D-4 11:45~12:00	Chemical Mechanism of Formation of the 2-Dimensional Electron Gas at the Al₂O₃/TiO₂ Interface by Atomic Layer Deposition Jeongwoo Park ¹ , Jae Hyuck Jang ² , Sang Woon Lee ³ , Tae Joo Park ⁴ , and Bonggeun Shong ¹ ¹ <i>Chemical Engineering, Hongik University,</i> ² <i>Center for Scientific Instruments, KBSI,</i> ³ <i>Department of Energy Systems Research and Department of Physics, Ajou University,</i> ⁴ <i>Materials Science and Chemical Engineering, Hanyang University</i>
FJ2-D-5 12:00~12:15	Two-Dimensional Electron Gas in Thin Film Oxide Heterostructures Hye Ju Kim ¹ , Seong Hwan Kim ¹ , Tae Jun Seok ¹ , Tae Joo Park ² , and Sang Woon Lee ¹ ¹ <i>Department of Energy Systems Research and Department of Physics, Ajou University,</i> ² <i>Department of Materials Science and Chemical Engineering, Hanyang University</i>
FJ2-D-6 12:15~12:30	Improved Two-Dimensional Electron Gas at the Interface of ZnO-Based Ultra-Thin Film Heterostructures Tae Jun Seok ¹ , Yuhang Liu ¹ , Ji Hyeon Choi ¹ , Sang Woon Lee ² , and Tae Joo Park ¹ ¹ <i>Department of Materials Science and Chemical Engineering, Hanyang University,</i> ² <i>Department of Energy Systems Research and Department of Physics, Ajou University</i>