



# 제 29회 한국반도체학술대회

The 29th Korean Conference on Semiconductors

2022년 1월 24일(월)~ 26일(수) | 강원도 하이원 그랜드호텔(컨벤션타워)

2022년 1월 26일(수), 10:45-12:30

Room B (에메랄드 II+III, 5층)

## D. Thin Film Process Technology 분과

### [WB2-D] Ferroelectrics

좌장: 박민혁 교수(서울대학교), 안지훈 교수(한양대학교)

<p><b>WB2-D-1</b> 10:45-11:00</p>	<p><b>W 전극 위에 증착된 플루오라이트 구조 <math>\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2</math> 강유전성 박막의 우수한 강 유전성에 관한 연구</b> Kun Yang<sup>1</sup>, Ju Yong Park<sup>1</sup>, Dong Hyun Lee<sup>1</sup>, Jin Joo Ryu<sup>3,4</sup>, Gun Hwan Kim<sup>3</sup>, and Min Hyuk Park<sup>2</sup> <sup>1</sup>School of Materials Science and Engineering, Pusan National University, <sup>2</sup>Department of Materials Science and Engineering and Inter-University Semiconductor Research Center, Seoul National University, <sup>3</sup>Center for Thin Film Materials, KRICT, <sup>4</sup>Department of Materials Science and Engineering, Yonsei University</p>
<p><b>WB2-D-2</b> 11:00-11:30</p>	<p><b>Operando Transmission Electron Microscopy Investigation on Domain Dynamics in Two Dimensional Ferroelectric Materials</b> Hyobin Yoo Sogang University</p>
<p><b>WB2-D-3</b> 11:30-11:45</p>	<p><b>Theoretical Understanding of the Phase Formation in <math>(\text{Hf}_{1-x}\text{Zr}_x)\text{O}_2</math>; Effects of Composition, Thermodynamics and Kinetics</b> Kun Hee Ye<sup>1,2</sup>, Taeyoung Jeoung<sup>1,2</sup>, Seungjae Yoon<sup>1,2</sup>, Cheol Seong Hwang<sup>2</sup>, and Jung-Hae Choi<sup>1</sup> <sup>1</sup>Electronic Materials Research Center, KIST, <sup>2</sup>Department of Materials Science and Engineering and Inter-University Semiconductor Research Center, Seoul National University</p>
<p><b>WB2-D-4</b> 11:45-12:00</p>	<p><b>Effects of Deposition and Annealing Temperatures on the Characteristics of <math>\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2</math> Thin Film Prepared by Plasma Enhanced Atomic Layer Deposition</b> Hak Gyeong Kim, Da Hee Hong, Jae Hoon Yu, and Hee Chul Lee Department of Advanced Materials Engineering, Korea Polytechnic University</p>
<p><b>WB2-D-5</b> 12:00-12:15</p>	<p><b>Self-Rectifying Ferroelectric Tunnel Junction by Imprint Field Engineering</b> Youngjin Goh, Jungheon Hwang, Minki Kim, Minhyun Jung, and Sanghun Jeon Korea School of Electrical Engineering, KAIST</p>
<p><b>WB2-D-6</b> 12:15-12:30</p>	<p><b>Ti 박막층의 Direct Scavenging Effect를 이용한 <math>\text{Mo}/\text{Hf}_{0.3}\text{Zr}_{0.7}\text{O}_2/\text{Si}</math> Capacitor의 반강유전성 및 Endurance 특성의 개선에 대한 연구</b> Se Hyun Kim<sup>1</sup>, Geun Taek Yu<sup>1</sup>, Geun Hyeong Park<sup>1</sup>, Dong Hyun Lee<sup>1</sup>, Ju Yong Park<sup>1</sup>, Kun Yang<sup>1</sup>, and Min Hyuk Park<sup>2</sup> <sup>1</sup>School of Materials Science and Engineering, Pusan National University, <sup>2</sup>Department of Materials Science and Engineering and Inter-University Semiconductor Research Center, Seoul National University</p>