



## Future Normal in Semiconductor

2025-02-14(금), 09:00-10:45

좌장: 추후업데이트 예정

P. Device for Energy (Solar Cell, Power Device, Battery, etc.) 분과

### [F11-P] Power Device

<p>초청 F11-P-1 09:00-09:30</p>	<p><b>Gallium Nitride Power Semiconductor Devices</b> Ho-Young Cha<sup>1,2</sup> <sup>1</sup>Hongik University, <sup>2</sup>CHIPSK</p>
<p>F11-P-2 09:30-09:45</p>	<p><b>Enhancing BeO Electric Properties on 4H-SiC with SiO<sub>2</sub> Interlayer for Power Device Applications</b> Sangoh Han<sup>1,2</sup>, Juyoung chae<sup>1,2</sup>, Jonghyun Bae<sup>1,2</sup>, Dohwan Jung<sup>1</sup>, Siwon Lee<sup>3</sup>, and Jungwoo Oh<sup>1,2</sup> <sup>1</sup>School of Integrated Technology, Yonsei University, <sup>2</sup>BK<sup>21</sup> Graduate Program in Intelligent Semiconductor Technology, Yonsei University, <sup>3</sup>Nano Science and Engineering, Yonsei University</p>
<p>F11-P-3 09:45-10:00</p>	<p><b>Self-aligned 플라즈마 처리를 통한 NiO/<math>\beta</math>-Ga<sub>2</sub>O<sub>3</sub> 이종 접합 파워다이오드의 질소 도핑</b> 김동빈<sup>1</sup>, 백종수<sup>1</sup>, 최윤호<sup>1</sup>, 김형우<sup>2</sup>, 조병진<sup>1</sup> <sup>1</sup>한국과학기술원 전기 및 전자공학부, <sup>2</sup>한국전기연구원 전력반도체연구단</p>
<p>F11-P-4 10:00-10:15</p>	<p><b>Eco-Friendly Power Sources for Interactive Sensor-Embedded Displays Using Transient Battery Technology</b> Hyeonbin Jo, Mukurala Nagaraju, Geun Lee, Hyeon Hong Lee, Hanmin Kim, and Sung Hun Jin Incheon National University</p>
<p>F11-P-5 10:15-10:30</p>	<p><b>Transferred graphene monolayer for <math>\beta</math>-Ga<sub>2</sub>O<sub>3</sub> Based Power Devices Applications</b> Madani Labeled<sup>1,2</sup>, Jang Hyeok Park<sup>1,2</sup>, You Seung Rim<sup>1,2</sup>, Bo-In Park<sup>3,4</sup>, Jekyung Kim<sup>3,4</sup>, and Jeehwan Kim<sup>3,4</sup> <sup>1</sup>Department of Semiconductor Systems Engineering and Convergence Engineering for Intelligent Drone, Sejong University, <sup>2</sup>Institute of Semiconductor and System IC, Sejong University, <sup>3</sup>Department of Mechanical Engineering, MIT, <sup>4</sup>Research Laboratory of Elect</p>



# 제 32회 한국반도체학술대회

The 32nd Korean Conference on Semiconductors

2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

## *Future Normal in Semiconductor*

F11-P-6

10:30-10:45

이온 주입 공정을 활용한 다이아몬드 기반 쇼트키 장벽 다이오드

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