



## Future Normal in Semiconductor

2025년 2월 14일(금), 15:10-17:10

Room I(스페이드 I), 6층

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

### 075\_[F13-P] Solar Cell

좌장: 김동회 교수(고려대학교), 홍영준 교수(성균관대학교)

<p>초청 F13-P-1 15:10-15:40</p>	<p><b>Buried Interface Study for Sn-Pb Perovskite Solar Cells for Tandem Applications</b> Dong Hoe Kim Department of Materials Science and Engineering, Korea University</p>
<p>F13-P-2 15:40-15:55</p>	<p><b>Interface Modification for Enhanced Charge Transport under Low-Light Conditions in Perovskite Indoor Photovoltaics</b> Seok Beom Kang<sup>1</sup>, Jae Ryoung Lee<sup>1</sup>, Joo Woong Yoon<sup>1</sup>, Jung Jun Kim<sup>1</sup>, and Dong Hoe Kim<sup>2</sup> Korea University</p>
<p>F13-P-3 15:55-16:10</p>	<p><b>3Inch InGaP/GaAs Thin-film Solar Cell For Space Application</b> Sukkyu Hong<sup>1,2</sup>, Seungwan Woo<sup>1</sup>, Sung-min Lee<sup>2</sup>, and Won Jun Choi<sup>1</sup> <sup>1</sup>Center for Quantum Technology, KIST, <sup>2</sup>Department of Electrical Engineering, Hanyang University</p>
<p>F13-P-4 16:10-16:25</p>	<p><b>15.2% Efficient InGaP/GaAs/Si Triple-junction Solar Cell with Direct Growth of n-GaAs Buffer on GaP/Si</b> Yeonhwa Kim<sup>1,2</sup>, Hyunbeom Shin<sup>3</sup>, Eunkyo Ju<sup>1,2</sup>, Tsimafei Laryn<sup>1,4</sup>, In-Hwan Lee<sup>2</sup>, Ho Kwan Kang<sup>3</sup>, Won Jun Choi<sup>1</sup>, Daehwan Jung<sup>1,4</sup> <sup>1</sup>Center for Quantum Technology, KIST, <sup>2</sup>Department of Materials Science and Engineering, Korea University, <sup>3</sup>KANC, <sup>4</sup>Division of Nanoscience and Technology, KIST School at Korea National University of Science and Technology</p>
<p>F13-P-5 16:25-16:40</p>	<p><b>p-CuAlO<sub>2</sub>/β-Ga<sub>2</sub>O<sub>3</sub> Interfaces: Self-Powered Photodetector with Improved Linear Dynamic Range and Stability</b> Chowdam Venkata Prasad<sup>1,2</sup>, Madani Labeled<sup>1,2</sup>, and You Seung Rim<sup>1,2</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</p>



# 제 32회 한국반도체학술대회

The 32nd Korean Conference on Semiconductors

2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

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<b>F13-P-6</b> <b>16:40-16:55</b>	<b>Buried Interface Modulation via PEDOT:PSS Ionic Exchange for Sn-Pb Mixed Perovskite Based Solar Cells</b> Sangheon Lee, Changyong Kim, Hyemin Lee, Seok Beom Kang, Joo Woong Yoon, Ayoung Lee, Jae Ryoung Lee, Sang Jun Park, Min Hyeok Park, Jung Jun Kim, and Dong Hoe Kim Department of Materials Science and Engineering, Korea University
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