



Future Normal in Semiconductor

2025-02-14(금), 15:10-17:10

좌장: 추후업데이트 예정

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

[F13-P] Solar Cell

<p>초청 F13-P-1 15:10-15:40</p>	<p>Buried interface study for Sn-Pb perovskite solar cells for tandem applications Dong Hoe Kim Department of Materials Science and Engineering, Korea University</p>
<p>F13-P-2 15:40-15:55</p>	<p>Interface Modification for Enhanced Charge Transport under Low-Light Conditions in Perovskite Indoor Photovoltaics Seok Beom Kang¹, Jae Ryoung Lee¹ , Joo Woong Yoon¹, Jung Jun Kim¹, and Dong Hoe Kim² Korea University</p>
<p>F13-P-3 15:55-16:10</p>	<p>3Inch InGaP/GaAs Thin-film Solar Cell For Space Application Sukkyu Hong^{1,2}, Seungwan Woo¹, Sung-min Lee², and Won Jun Choi¹ ¹Center for Quantum Technology, KIST, ²Department of Electrical Engineering, Hanyang University</p>
<p>F13-P-4 16:10-16:25</p>	<p>15.2% efficient InGaP/GaAs/Si triple-junction solar cell with direct growth of n-GaAs buffer on GaP/Si Yeonhwa Kim^{1,2}, Hyunbeom Shin³, Eunkyo Ju^{1,2}, Tsimafei Laryn^{1,4}, In-Hwan Lee², Ho Kwan Kang³, Won Jun Choi¹, Daehwan Jung^{1,4} ¹Center for Quantum Technology, KIST, ²Department of Materials Science and Engineering, Korea University, ³KANC, ⁴Division 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>p-CuAlO₂/β-Ga₂O₃ Interfaces: Self-Powered Photodetector with Improved Linear Dynamic Range and Stability Chowdam Venkata Prasad^{1,2}, Madani Labeled, and You Seung Rim^{1,2} ¹Department of Semiconductor Systems Engineering and Convergence Engineering for Intelligent Drone, Sejong University, ²Institute of Semiconductor and System IC, Sejong University</p>



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<p>F13-P-6 16:40-16:55</p>	<p>Cathode Interfacial Engineering with Quinoxaline-Phosphine Oxide-Based Molecules for Wide-Bandgap Perovskite Solar Cells Jihyeon Heo^{1,2}, Juan Anthony Prayogo³, Dong Ryeol Whang⁴, Dong Wook Chang³, and Hui Joon Park^{1,2,5} ¹Department of Organic and Nano Engineering, Hanyang University, ²Human-Tech Convergence Program, Hanyang University, ³Department of Industrial Chemistry and CECS Research Institute, Pukyong National University, ⁴Division of Advanced Materials, Hannam University, ⁵Department of Semiconductor Engineering, Hanyang University</p>
<p>F13-P-7 16:55-17:10</p>	<p>Buried Interface Modulation via PEDOT:PSS Ionic Exchange for Sn-Pb Mixed Perovskite based Solar Cells 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</p>