2022년 1월 25일(화), 09:00-10:30 Room I (하트 II, 6층)

## P. Device for Energy (Solar Cell, Power Device, Battery, etc.) 분과 [TI1-P] Solar Energy Conversion Device

좌장: 박정웅 교수(가천대학교)

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TI1-P-1 09:00-09:30	Advanced Analysis for Si PV Using Injection Dependent Lifetime and PL Imaging Technology Sungeun Park, Sang Hee Lee, Chelwook Kwon, Kwan Hong Min, Hee-eun Song, and Min-Gu Kang Photovoltaics Laboratory, KIER
TI1-P-2 09:30-09:45	Study of Monolithic Al <sub>0.17</sub> Ga <sub>0.83</sub> As Single Junction Solar Cell Grown on Si toward High Efficiency III-V/Si Tandem Cell  Yeonhwa Kim <sup>1,2</sup> , Seungwan Woo <sup>1,3</sup> , Rafael Chu <sup>1,2</sup> , Jae-Hoon Han <sup>1</sup> , In-Hwan Lee <sup>3</sup> ,  Won Jun Choi <sup>1</sup> , and Daehwan Jung <sup>1,2</sup> <sup>1</sup> Center for Opto-electronic Materials and Devices, KIST, <sup>2</sup> Division of Nano and Information Technology, KIST School at University of Science and Technology, <sup>3</sup> Department of Materials Science and Engineering, Korea University
TI1-P-3 09:45-10:00	High Contrast Visualization of Defects in Charge Transport Layers of Perovskite Solar Cells by Fluorescence Quenching Hannah Kwon <sup>1</sup> , Hyejun Kim <sup>1</sup> , Hyun Chul Kim <sup>1</sup> , Seok Joon Kwon <sup>2</sup> , and In Soo Kim <sup>1</sup> **Inanophotonics Research Center, KIST, 2School of Chemical Engineering, Sungkyunkwan University
TI1-P-4 10:00-10:15	An Accurate and Dither-Free Maximum Power Point Tracking (MPPT) Algorithm for Photovoltaic Cells  Byoung Kyu Kim <sup>1</sup> , Jaeha Kim <sup>2</sup> <sup>1</sup> Inter-University Semiconductor Research Center, Seoul National University, <sup>2</sup> Department of Electrical and Computer Engineering, Seoul National University
TI1-P-5 10:15-10:30	Electrical and Thermal Circuit Model for CIGS Photovoltaic Module Yongki Kim <sup>1</sup> , Myunghun Shin <sup>1</sup> , Myeong-jin Lee <sup>1</sup> , and Yoonmook Kang <sup>2</sup> <sup>1</sup> Korea Aerospace University, <sup>2</sup> Korea University