

<b>Session Code</b>	<b>[09] Fr11</b>
<b>Session Title</b>	Novel Semiconductor Materials and Devices 4
<b>Date and Time</b>	Friday, October 8, 2021 / 10:40-11:55
<b>Session Room</b>	Room I (203)
<b>Session Chair(s)</b>	Seung-Hyub Baek (KIST, Korea)

**[[09] Fr11-1]** **[Online] 10:40-10:55**

**Lead-Free Perovskite-Inspired Semiconductors: Assessing the Impact of Defect Levels on Photovoltaic Performance via Photo-Induced Current Transient Spectroscopy**  
Vincenzo Pecunia (*Soochow Univ., China*)

**[[09] Fr11-2]** **[Online] 10:55-11:10**

**Towards Lithography Free Fabrication of Semi-Transparent CuInGaSe<sub>2</sub> Micro-Solar Cell Mini-Modules by Inkjet Printing**

Van Ben Chu, Lena Merges, Ricardo Goncalinho Poeira, Himanshu Phirke, Shilpi Shital, Omar Ramirez Sanchez, Alice Debot (*Univ. of Luxembourg, Luxembourg*), Sebastjan Glinsek (*Luxembourg Inst. of Science and Tech., Luxembourg*), Sascha Sadewasser (*Int'l Iberian Nanotech. Lab., Portugal*), and Phillip J. Dale (*Univ. of Luxembourg, Luxembourg*)

**[[09] Fr11-3]** **11:10-11:25**

**Study of New Solder Composition by Metal Element Combination in Sn for High Drop Shock and TC Reliability**

Jaeyeol Son (*Sungkyunkwan Univ., Korea*), Seulgi Lee, Youngwoo Lee (*MKE, Korea*), Haksan Jeong, and S. B. Jung (*Sungkyunkwan Univ., Korea*)

**[[09] Fr11-4]** **11:25-11:40**

**PbS Colloidal Quantum Dot Photodiode 1-D Array**

Sehwan Chang (*KIST, Korea*), Jihoon Kyhm (*Dongguk Univ., Korea*), Hong-Gyu Park (*Korea Univ., Korea*), and Jin Dong Song (*KIST, Korea*)

**[[09] Fr11-5]** **[Online] 11:40-11:55**

**Negative Differential Resistance Phenomenon Achieved via Potential Hill Derived from a Two-Dimensional Ferroelectric Material**

Taeran Lee, Seunghwan Seo, and Jin-Hong Park (*Sungkyunkwan Univ., Korea*)