



# 7<sup>th</sup> IEEE Electron Devices Technology and Manufacturing (EDTM) Conference 2023

March 7 – 10, 2023 / COEX Seoul, Korea

44C. Nanoscale Materials	
Session Date:	March 9(Thu.), 2023
Session Time:	16:30-18:05
Session Room:	Room C (#307 a)
Session Chair:	Prof. Gwan-Hyoung Lee (Seoul National University)
	Prof. Jong-Hoon Kang (Pohang University of Science and Technology)

**[44C-1] [Invited] 16:30-16:55**

## Automated Assembly of Synthetic Van Der Waals Solids

Andrew Mannix

*Stanford University*

**[44C-2] [Invited] 16:55-17:20**

## Boosting Electrochemical CO<sub>2</sub> Reduction on Zeolite-Imidazolate-8 via Transition Metal

### Doping-Induced Local Effect

Jin Hyuk Cho and Soo Young Kim

*Korea University*

**[44C-3] 17:20-17:35**

## Generalized Direct Optical Patterning of Photocurable Inorganic Materials

Seongheon Baek and Jae Sung Son

*Ulsan National Institute of Science and Technology*

**[44C-4] 17:35-17:50**

## A Study on the Flash-Light Sintering Characteristics with Respect to the Pattern Width and Interval of the Inkjet-Printed Copper Nano Ink on the Paper Substrate

Sungjun Choi, Yong-Rae Jang, Hak-Sung Kim and Caroline Sunyong Lee

*Hanyang University*

**[44C-5] 17:50-18:05**

## Graphene via Contact Architecture for Vertical Integration of vdW Heterostructure Devices

Yongjun Shin<sup>1</sup>, Junyoung Kwon<sup>2</sup>, Yeonsu Jeong<sup>2</sup>, Kenji Watanabe<sup>3</sup>, Takashi Taniguchi<sup>3</sup>, Seongil Im<sup>2</sup> and Gwan-Hyoung Lee<sup>1</sup>

<sup>1</sup>Seoul National University, <sup>2</sup>Yonsei University, <sup>3</sup>National Institute for Materials Science