



# IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

<b>Session Title</b>	<b>Emerging Advanced Materials I</b>	<b>Session Code</b>	<b>We-B1</b>
<b>Date and Time</b>	<b>2018-08-22 / 10:30 - 12:30</b>		
<b>Place</b>	<b>Room B</b>		
<b>Session Chair</b>	<b>TBA</b>		

**We-B1-1**

**10:30 - 11:00**

## **[Invited] Modulation of Nanoscale Materials based on Dense Nanopatterns**

Yeon Sik Jung  
KAIST, Korea

**We-B1-2**

**11:00 - 11:30**

## **[Invited] Stabilizing Copper Window Electrodes towards Air Oxidation for Optoelectronic Applications**

Philip Bellchambers, Jaemin Lee, Silvia Varagnolo, Houari Amari, Steven Huband, Marc Walker, and Ross Hatton  
Univ. of Warwick, UK

**We-B1-3**

**11:30 - 11:45**

## **Novel Photon-Excitation Process for Control of C-C Bonds in Nano-carbon Materials by Free Electron Laser Irradiation**

Hiroshi Yamamoto  
Nihon Univ., Japan

**We-B1-4**

**11:45 - 12:00**

## **Fabrication of Isolated Nanocolumnar-Structured Titanium-Nitride Films by Reactive Sputtering**

Yasushi Inoue<sup>1</sup>, Ryusei Takamura<sup>1</sup>, Daiki Sato<sup>1</sup>, Sho Akiyama<sup>1</sup>, and Osamu Takai<sup>2</sup>  
<sup>1</sup>Chiba Inst. of Tech., Japan, <sup>2</sup>Kanto Gakuin Univ., Japan

**We-B1-5**

**12:00 - 12:15**

## **A Glass Capillary-Written and then Vapor Phase-Polymerized PEDOT Conductor with Stability in Water**

Feng Ma<sup>1</sup>, Sangil Choi<sup>1,2</sup>, and Sungsoo Kim<sup>1,2</sup>  
<sup>1</sup>Pai Chai Univ., Korea, <sup>2</sup>Flexolution Corp., Korea

**We-B1-6**

**12:15 - 12:30**

## **Effect of Addition of Zirconia Particles on Gel Strength and Gelation Induction Time in Acrylamide Polymerization**

Yu Ah Son<sup>1</sup>, Nahm Sahn<sup>2</sup>, Hang Kyo Jin<sup>1</sup>, Young Min Choi<sup>1</sup>, Sun Ho Jeong<sup>1</sup>, Su Yeon Lee<sup>1</sup>, Sung Mook Jung<sup>1</sup>, and Beyong Hwan Ryu<sup>1</sup>  
<sup>1</sup>KRICT, Korea, <sup>2</sup>Korea Univ., Korea