

**Room A #101** 13:30-15:30**[Mo-A2]** Big Ideas in Novel Sensors II**Session Chairs:**

Il-Doo Kim (KAIST, Korea),  
Nicolae Barsan (Univ. of Tuebingen, Germany)

**Mo-A2-1 [Invited]** 13:30-14:00**Recent Advances in Tailored Nanofibers for Selective Sensing**

Il-Doo Kim  
KAIST, Korea

**Mo-A2-2** 14:00-14:15**Au-Loaded Cr<sub>2</sub>O<sub>3</sub> Yolk-Shell Spheres with Highly Sensitive and Selective Detection of Trimethylamine**

Tae-Hyung Kim, Ji-Wook Yoon, Yun Chan Kang, and Jong-Heun Lee  
Korea Univ., Korea

**Mo-A2-3** 14:15-14:30**Highly Selective and Sensitive SnS<sub>2</sub>/rGO Hybrid Composite based Chemoresistive Gas Sensors**

Seo Yun Park, Yeon Hoo Kim, Tae Hoon Kim, and Ho Won Jang  
Seoul Nat'l Univ., Korea

**Mo-A2-4 [Invited]** 14:30-15:00**Chemoresistive Gas Sensor Array based on 2D Materials: Recent Advances and Issues**

Ho Won Jang  
Seoul Nat'l Univ., Korea

**Mo-A2-5** 15:00-15:15**Facile Synthesis of Pt Functionalized PdO NWs for Room Temperature Hydrogen Gas Sensor**

Hee-Jin Cho<sup>1</sup>, Vivian Chen<sup>2</sup>, Shaopeng Qiao<sup>2</sup>, Won-Tae Koo<sup>1</sup>, Il-Doo Kim<sup>1</sup>, and Reginald Penner<sup>2</sup>  
<sup>1</sup>KAIST, Korea, <sup>2</sup>Univ. of California, USA

**Mo-A2-6** 15:15-15:30**Design of Ultrasensitive and Sensitive Xylene Sensor using Cr<sub>2</sub>O<sub>3</sub>/ZnCr<sub>2</sub>O<sub>4</sub> Hetero-Nanostructures**

Jae-Hyeok Kim, Hyun-Mook Jeong, Chan Woong Na, Ji-Won Yoon, and Jong-Heun Lee  
Korea Univ., Korea

**Room B #102** 13:30-15:30**[Mo-B2]** Thin Films and Interfacial Phenomena**Session Chairs:**

Paolo Mele (Shibaura Inst. Tech., Japan),  
Yukiko Yamada-Takamura (JAIST, Japan)

**Mo-B2-1 [Keynote]** 13:30-14:00**Magnetic Skyrmions in Magnetic Multilayers**

Axel Hoffmann  
ANL, USA

**Mo-B2-2 [Invited]** 14:00-14:30**Critical Currents in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> - based Coated Conductors in Pulsed Fields**

B. Maiorov<sup>1</sup>, M. Leroux<sup>1</sup>, F.F. Balakirev<sup>1</sup>, M. Miura<sup>2</sup>, and K. Agatsuma<sup>2</sup>  
<sup>1</sup>Los Alamos Nat'l Laboratory, USA, <sup>2</sup>Seikei Univ., Japan

**Mo-B2-3 [Invited]** 14:30-15:00**Low-Core Loss Nanogranular Co-based Soft Magnetic Films for 10 GHz Applications**

Hanae Kijima-Aoki and Hiroshi Masumoto  
Tohoku Univ., Japan

**Mo-B2-4** 15:00-15:15**Interaction Characterization between U-Zr-RE Ternary Alloy And Y<sub>2</sub>O<sub>3</sub> Ceramic Coating Layer at Elevated Temperature**

Seung-Uk Mun<sup>1,2</sup>, Ki-Hwan Kim<sup>2</sup>, Jeong-Young Park<sup>2</sup>, and Sun-Ig Hong<sup>1</sup>  
<sup>1</sup>Chungnam Nat'l Univ., Korea, <sup>2</sup>KAERI, Korea

**Mo-B2-5** 15:15-15:30**The Study of Multilayer ta-C Film for the Protection of High-Precision Mold**

Jing Wei, Hanchao Li, Peiling Ke, and Aiyang Wang  
CAS, China