

**Room E #105** 10:30-12:30**[Mo-E1]** Carbon based Devices Applications**Session Chairs:**

Helmut T. Uchida (Tokai Univ., Japan),  
Robert Nemanich (Arizona State Univ, USA)

**Mo-E1-1 [Invited]** 10:30-11:00**Adapting Carbon-based Interconnect Technology to Non-Classical FET Drivers for Enhanced Performance**

Subindu Kumar, Tarun Kumar Sharma, Vatsala Raj, Neeta Bharti, and Princy Sharma  
*ISM, India*

**Mo-E1-2 [Invited]** 11:00-11:30**Diamond Epitaxy for High Power and High Temperature Electronics**

Robert J Nemanich<sup>1</sup>, Franz A. Koeck<sup>1</sup>, Maitreya Dutta<sup>1,2</sup>, Raghuraj Hathwar<sup>1</sup>, Mehdi Saremi<sup>1</sup>, Srabanti Chowdhury<sup>1,2</sup>, and Stephen M. Goodnick<sup>1</sup>  
<sup>1</sup>Arizona State Univ, USA, <sup>2</sup>Univ. of California-Davis, USA.

**Mo-E1-3 [Keynote]** 11:30-12:00**Tuning the Thermoelectric Properties of Carbon Nanotube Films by Supramolecules**

Yoshiyuki Nonoguchi  
*Nara Inst. of Sci. and Tech., Japan*

**Mo-E1-4** 12:00-12:15**The Transport and Optoelectronic Properties of  $\gamma$ -Graphyne-based Molecular Magnetic Tunnel Junctions**

Jin Li, Li-Chun Xu, Yongzhen Yang, Xuguang Liu, and Zhi Yang  
*Taiyuan Univ. of Tech., China*

**Mo-E1-5 [Invited]** 12:15-12:45**Electrical Properties of Diamond-Like Carbon Films under Mechanical Pressure**

Yasuharu Ohgoe, Takahiro Suzuki, Shuji Obata, Kenji Hirakuri, and Akihiko Homma  
*Tokyo Denki Univ., Japan*

**Room F #106** 10:30-12:30**[Mo-F1]** Stretchable Electrodes and Applications I**Session Chairs:**

Qibing Pei (UCLA, USA),  
Taishi Takenobu (Nagoya Univ., Japan)

**Mo-F1-1 [Invited]** 10:30-11:00**Ultrathin Gold Nanowires for Soft Electronics**

Wenlong Cheng  
*Monash Univ., Australia*

**Mo-F1-2 [Invited]** 11:00-11:30**Silver Nanowire based Stretchable and Wearable Electronics**

Yong Zhu, Shanshan Yao, and Zheng Cui  
*North Carolina State Univ., USA*

**Mo-F1-3** 11:30-11:45**Hydrogen Gas Sensing by Palladium-based Stretchable Conductive Fiber**

Sanggeun Lee and Taeyoon Lee  
*Yonsei Univ., Korea*

**Mo-F1-4** 11:45-12:00**Paper-based Circuit with High Folding Stability**

FaLi Li, YiWei Liu, and Run-Wei Li  
*CAS, China*

**Mo-F1-5** 12:00-12:15**An Elastic Conductor with High Dynamic Stability based on Calabash Bunch Network Structure**

Zhe Yu<sup>1,2</sup>, Shang Jie<sup>1</sup>, Xuhong Niu<sup>1</sup>, Yiwei Liu<sup>1</sup>, and Run-Wei Li<sup>1</sup>  
<sup>1</sup>CAS, China, <sup>2</sup>Univ. of CAS, China

**Mo-F1-6** 12:15-12:30**General Method for the Flat Stretchable Electrode and Application**

Minsik Kong, Hyun Woo Kim, and Unyong Jeong  
*POSTECH, Korea*