

**Room E #105** 10:30-12:30**[Tu-E1]** Theoretical Approaches**Session Chairs:**

Woong Choi (Kookmin Univ., Korea),  
Youngki Yoon (Univ. of Waterloo, Canada)

**Tu-E1-1 [Invited]** 10:30-11:00**Collective Phenomena and Topological Properties of 2D Crystals**

Young-Woo Son  
*KIAS, Korea*

**Tu-E1-2 [Invited]** 11:00-11:30**Electron Transport Behaviors in 2D Materials and Their Potential Applications-from Theoretical Perspective**

Gengchiao Liang  
*Nat'l Univ. of Singapore, Singapore*

**Tu-E1-3 [Invited]** 11:30-12:00**2D Materials: New Opportunities for Electronic and Optoelectronic Devices**

Youngki Yoon<sup>1</sup> and Sunkook Kim<sup>2</sup>  
<sup>1</sup>*Univ. of Waterloo, Canada*, <sup>2</sup>*Sungkyunkwan Univ., Korea*

**Room F #106** 10:30-12:30**[Tu-F1]** Wearable Sensors II**Session Chairs:**

Unyong Jeong (POSTECH, Korea),  
Lucia Beccai (IIT, Italy)

**Tu-F1-1 [Invited]** 10:30-11:00**Ultrafast, Low Power, Flexible Temperature Sensors with Ultra Precision Sensitivity for Healthcare Applications**

Dipak Kumar Goswami  
*Indian Inst. of Tech., India*

**Tu-F1-2 [Invited]** 11:00-11:30**Smart Contact Lens for Ocular Diabetic Theragnosis**

Sei Kwang Hahn  
*POSTECH, Korea*

**Tu-F1-3 [Invited]** 11:30-12:00**Ultra-Sensitive, Flexible Strain-Gauge Sensor Inspired by Spider's Sensory Organ**

Tae-il Kim  
*Sungkyunkwan Univ., Korea*

**Tu-F1-4** 12:00-12:15**Knittable  $Ti_3C_2Tx$  MXene Cotton Yarns for Energy Storage Applications**

Simge Uzun, Ariana Levitt, Mohamed Alhabeab, Genevieve Dion, and Yury Gogotsi  
*Drexel Univ., USA*

**Tu-F1-5** 12:15-12:30**Conductive Fiber-based Multi-Modal Mechanical Sensor for Wearable Electronics**

Kukro Yoon<sup>1</sup>, Seung Hoon Choi<sup>2</sup>, Jaehong Lee<sup>1</sup>, Sera Shin<sup>1</sup>, Changhyun Pang<sup>2</sup>, and Taeyoon Lee<sup>1</sup>  
<sup>1</sup>*Yonsei Univ., Korea*, <sup>2</sup>*Sungkyunkwan Univ., Korea*

**Tu-F1-6** 12:30-12:45**Pressure Sensitive Contact Transistors Operating in Subthreshold Regime**

Sanghoon Baek, Geun Yoel Bae, Jimin Kwon, Kilwon Cho, and Sung June Jung  
*POSTECH, Korea*