

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 Yoon¹ and Sunkook Kim²
¹*Univ. of Waterloo, Canada,* ²*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 Ti₃C₂Tx 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 Yoon¹, Seung Hoon Choi², Jaehong Lee¹, Sera Shin¹, Changhyun Pang², and Taeyoon Lee¹
¹*Yonsei Univ., Korea,* ²*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