[TS11F6]

Nanomaterials and Nanodevices for Digital Healthcare 6

Date & Time	July 10(Fri.), 2026 / 09:30-12:00
Place	Room 212
Session Chair(s)	Prof. Ju Hun Lee (Hanyang University), Prof. Jahyun Koo (Korea University)

TS11F6_O_1 ***YSA Applied** 09:30-09:45

An Aging-Associated EV-miRNA Axis Enhances Susceptibility to $PM_{2.5}$-Induced Lung Injury

Jun Go, Nayoung Lee, and Heedoo Lee

(Changwon National University)

TS11F6_O_2 ***YSA Applied** 09:45-10:00

World-First Synthesis of AlCoCrFeNi High-Entropy Alloy by Self-Propagating High-Temperature Synthesis and its Application to MoS_2-Reinforced Tribological Composites

Dogyun Byeon, Tae-Hwan Jang, Joohan Jo, Jungwon Hur, Tae-Min Kim, Yurim Noh, Sungju Lee, Yong Suk Oh, and Sungmin Yoon

(Changwon National University)

TS11F6_O_3 ***YSA Applied** 10:00-10:15

Effect of DLC Thin Films and Various Surface Pattern Geometries on Tribological Property Enhancement

Tae Hwan Jang, Seong Ju Lee, Go Eun Choi, Sangwon Kim, and Yong Suk Oh

(Changwon National University)

TS11F6_O_4 10:15-10:30

Synthesis and Characterization of Indenothiophene-Based NearInfrared Organic Photodetector Material

Jeong Yong Park and Hea Jung Park

(Changwon National University)

TS11F6_O_5 ***YSA Applied** 10:30-10:45

Identification of Key Root Traits Associated with Productivity in Valeriana fauriei Using Image-Based Phenotyping

Yun Ji Park and Inkyu Park

(Changwon National University)

TS11F6_O_6 ***YSA Applied** 10:45-11:00

Facile and Scalable Strategy for Fabricating Dense Bulk Ag_2Se as a High-Performance Thermoelectric Material

Myeong Hoon Jeong[1], Byoungwook Park[2], Jungwon Kim[3], Mijeong Han[2], and Young Hun Kang[2]

([1]Changwon National University, [2]Korea Research Institute of Chemical Technology, [3]Korea Institute of Science and Technology)

TS11F6_O_7 ***YSA Applied** 11:00-11:15

Cold Sintering of Se-Free $Bi_{1.8}Sb_{0.2}Te_3$: A Low-Temperature Route to Dense Thermoelectrics

Pathan Sharief, Ninad B. Velhal, Muhammad Uzair, Ha-Jin Gu, Ah-Hyeon Park, YoungJae Kim, and Sang-Chae Jeon

(Changwon National University)

TS11F6_O_8 ***YSA Applied** 11:15-11:30

Engineering Phase-Pure 2D Layered ZnSb Thermoelectrics via Alkali Metal Alloying

Peyala Dharmaiah[1], Hea Jung Park[1], and Seung-Hyub Baek[2]

([1]Changwon National University, [2]Korea Institute of Science and Technology)

TS11F6_O_9 ***YSA Applied** 11:30-11:45

Selection of Cysteine Protease Domain-Targeting Peptides Against Vibrio Vulnificus MARTX Toxin

Ga-Young Park[1], Sang-Oh Ha[2], Si-Eun Yu[2], Jae-Won Choi[2], and Gna Ahn[1]

([1]Changwon National University, [2]Cheongju University)

TS11F6_O_10 ***YSA Applied** 11:45-12:00

Circulating EV-Derived miR-148a-3p Is Associated with Inflammatory Activity in Axial Spondyloarthritis

Byeong Geun Seok, Suryeon Kim, and Heedoo Lee

(Changwon National University)