[TS11F7]

Nanomaterials and Nanodevices for Digital Healthcare 7

Date & Time	July 10(Fri.), 2026 / 14:00-16:30
Place	Room 212
Session Chair(s)	Prof. Yong Suk Oh (Changwon National University), Dr. Dae-Sik Lee (ETRI)

TS11F7_O_1 ***YSA Applied** 14:00-14:15

Strategic Development of dsRNA-Based Bioagents to Optimize Crop Resilience under Climate Fluctuation

Byung Jun Jin and Inkyu Park

(Changwon National University)

TS11F7_O_2 ***YSA Applied** 14:15-14:30

Synergistic MIP-NiHeXF Hybrid Interface for Selective Electrochemical Detection of Estradiol

Sakthivel Gandhi[1] and Neha Pari[2]

([1]Changwon National University, [2]SASTRA Deemed to be University)

TS11F7_O_3 ***YSA Applied** 14:30-14:45

Intelligent Mattress System with Multimodal Sensors for Pressure Injury Prevention

Hyunsu Jang, Nam Hyeong Lee, Gyu Tae Lee, and Yong Suk Oh

(Changwon National University)

TS11F7_O_4 ***YSA Applied** 14:45-15:00

Formation and Evolution of MnO_2 under Nature-Mimicking Redox Conditions

Sunghoon Son and Haesung Jung

(Changwon National University)

TS11F7_O_5 ***YSA Applied** 15:00-15:15

Advanced Damage Evaluation in GFRP Using Convergence of Guided Wave Frequency Analysis and CNN Identifier

Yonghee Lee[1], Donghoon Kang[2], Juyeop Park[2], and Yong Suk Oh[1]

([1]Changwon National University, [2]Korea Railroad Research Institute)

TS11F7_O_6 ***YSA Applied** 15:15-15:30

Mitigation of Biofouling in a Membrane Bioreactor Treating Saline Wastewater Using Cis-2-Decenoic Acid

Wonjung Song[1], Jihyang Kweon[2], and Jongkeun Lee[1]

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

TS11F7_O_7 ***YSA Applied** 15:30-15:45

Swertisin Improves Alzheimer's Disease-Like Pathology in 5XFAD Male Mice through Regulation in Plasmin Activity

Huiyoung Kwon and Ho Jung Bae

(Changwon National University)

TS11F7_O_8 ***YSA Applied** 15:45-16:00

Interface-Engineered In_2Te_3 Photoelectrodes for Solar-Driven Hydrogen Production

Hoki Son, Hyegyeong Hwang, and Jinsung Kwak

(Changwon National University)

TS11F7_O_9 16:00-16:15

Rapid LC-MS/MS Determination of Particulate Alkyl Amines and Free Amino Acids in Urban $PM_{2.5}$ and Their Seasonal Characteristics

Joosung Oh, Beom-Su Cheon, Ju-Yeon Kim, Chae-Yeon Park, Hye-Min Lee, Nontakorn Poodankai, Su-Bin Min, Jin-Sik Bang, and Dae-Woon Jeong

(Changwon National University)

TS11F7_O_10 16:15-16:30

Battery-Free Wireless Sensor Utilizing an Anthocyanin Hydrogel for pH Monitoring of Wounds

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

(Changwon National University)