[TS07F6]

Nanotechnology for Eco-Friendly Energy Generation/Storage 6

Date & Time	July 10(Fri.), 2026 / 09:30-10:30
Place	Room 205
Session Chair(s)	Dr. Su-Ho Cho (NNFC)

TS07F6_O_1 ***YSA Applied** 09:30-09:40

Sustainable Pathways to Enable Strain-Resilient Fast-Charging Cathodes for Next-Gen Li-Ion Batteries

Raaju Sundhar Arul Saravanan and Kim Sang-Jae

(Jeju National University)

TS07F6_O_2 09:40-09:50

Eco-Engineered PET-Derived Molecular Inhibitors for Stabilizing Aluminium Anode Interfaces Toward Safe and Sustainable Aluminium-Air Batteries

Konanchery Muraleedharan Athira and Kim Sang-Jae

(Jeju National University)

TS07F6_O_3 ***YSA Applied** 09:50-10:00

Ion-Gradient Engineered Piezo-Ionic Sensor for High-Performance Soft Energy Harvesting and Wearable-Robotic Systems

Shubham and Vipin Amoli

(Rajiv Gandhi Institute of Petroleum Technology)

TS07F6_O_4 ***YSA Applied** 10:00-10:10

Enhanced Pseudocapacitive Performance of $ZnFe_2O_4$/Graphitic Carbon Nitride Nanocomposites for High-Performance Supercapacitors

Manas Nasit and Shalendra Kumar

(University of Petroleum and Energy Studies)

TS07F6_O_7 ***YSA Applied** 10:10-10:20

Triboelectric Nanogenerators based on Electrospun Bismuth Ferrite/PVDF Nanofibers for Efficient Mechanical Energy Harvesting

Goutham Gatla, Venkata Siva Kavarthapu, Hong Mu Park, Ramadevi Vadlakonda, and Jae Su Yu

(Kyung Hee University)

TS07F6_O_8 ***YSA Applied** 10:20-10:30

Iron Vanadate/Polyacrylonitrile Nanofibers-Based Hybrid Nanogenerators for Wearable Biomechanical Energy Harvesting

Venkata Siva Kavarthapu, Goutham Gatla, Hong Mu Park, Ramadevi Vadlakonda, and Jae Su Yu

(Kyung Hee University)