

[TS01F6]

Nanotechnology for Energy Harvesting 6

Date & Time	July 5(Fri.), 2024 / 09:00–10:30
Place	Room 205
Session Chair(s)	Kyungwho Choi (Sungkyunkwan Univ.)

TS01F6_O_1

09:00–09:15

Advanced Heat Utilization System by Thermoelectric Generator via Ferroelectric Effect

Ji Young Park, Sun-Woo Kim, and Jeong Min Baik
(*Sungkyunkwan University*)

TS01F6_O_2

09:15–09:30

Developing a Synergetic Hybrid Thermoelectric–Piezoelectric Generator to Enhance Heat Dissipation using Cantilever Vibration

SeungBum Kim, Hyun-Cheol Song, and Sunghoon Hur
(*KIST*)

TS01F6_O_3

09:30–09:45

Synthesis of Amorphous Pd-Based Nanostructures for Efficient Catalytic Reactions

Qinxin Luo¹, Yiyao Ge², and Hua Zhang¹
(¹*City University of Hong Kong*, ²*University of Science and Technology Beijing*)

TS01F6_O_4

09:45–10:00

Triboelectric–Electromagnetic Hybrid Energy Harvester for Operation of Various Functional Light-Emitting Diodes with a Wide Range of Application

Yu-Seop Kim¹, Yoonsang Ra¹, Chungyeon Cho², Sangmin Lee³, and Dongwhi Choi¹
(¹*Kyung Hee University*, ²*Wonkwang University*, ³*Chung-Ang University*)

TS01F6_O_5

10:00–10:15

Multilayered Self-Powered Hybrid System for Sensors Applications

Monunith Anithkumar and Sang-Jae Kim
(*Jeju National University*)

TS01F6_O_6

10:15–10:30

Intrinsically Flexible All-Inorganic Nanoribbon Yarn for Energy Applications

Hanhwi Jang¹, Junseong Ahn², Yongrok Jeong³, Ji-Hwan Ha¹, Jun-Ho Jeong⁴, Min-Wook Oh⁵, Inkyu Park¹, and Yeon Sik Jung¹
(¹*KAIST*, ²*Korea University*, ³*KAERI*, ⁴*KIMM*, ⁵*Hanbat National University*)