

**[TS01W2]****Nanotechnology for Energy Harvesting 2**

<b>Date &amp; Time</b>	July 3(Wed.), 2024 / 15:40–17:40
<b>Place</b>	Room 205
<b>Session Chair(s)</b>	Jun Chen (UCLA)

**TS01W2\_I\_1 \*Invited 15:40–16:10****Piezoelectric DC Generator through Sequential In-phase Polarization Variation**Hyun-Cheol Song<sup>1,2</sup>*(<sup>1</sup>KIST, <sup>2</sup>Sungkyunkwan University)***TS01W2\_O\_2 16:10–16:25****Morphotropic Phase Boundary Formation of PbZrO<sub>3</sub>-PbTiO<sub>3</sub> Composite Film by Aerosol Deposition**Hyunseok Song<sup>1</sup>, Nayeon Kang<sup>1</sup>, Minjung Kim<sup>1</sup>, Taek-Kyeong Seong<sup>1</sup>, Dae-Yong Jeong<sup>2</sup>, and Jungho Ryu<sup>1</sup>*(<sup>1</sup>Yeungnam University, <sup>2</sup>Inha University)***TS01W2\_O\_3 16:25–16:40****High-Performance Flexible Piezoelectric Single Crystal-Based 0–3 Composites for Energy Harvesting Applications**Hyunhee Kwon<sup>1</sup>, Yongjun Choi<sup>1</sup>, Hoyong Lee<sup>2</sup>, and Miso Kim<sup>1</sup>*(<sup>1</sup>Sungkyunkwan University, <sup>2</sup>Ceracomp Co., Ltd.)***TS01W2\_O\_4 16:40–16:55****Ultrasound-Responsive Piezoelectric-Assisted Aligned Structured Scaffold for Promoting Nerve Regeneration**Dabin Kim<sup>1</sup>, Sera Jeon<sup>2</sup>, Miso Kim<sup>1</sup>, and Sang-Woo Kim<sup>2</sup>*(<sup>1</sup>Sungkyunkwan University, <sup>2</sup>Yonsei University)***TS01W2\_O\_5 16:55–17:10****Aurivillius-Type Strontium Bismuth Titanate Composite Film-Based Flexible Triboelectric Nanogenerators for Versatile Applications**Anand Kurakula<sup>1</sup>, Mandar Vasant Paranjape<sup>1</sup>, Punnarao Manchi<sup>1</sup>, Shaik Junied Arbaz<sup>1</sup>, Lohit Kumar Srinivas Gujjala<sup>2</sup>, Sontyana Adonijah Graham<sup>1</sup>, Venkata Siva Kavarthapu<sup>1</sup>, and Jae Su Yu<sup>1</sup>*(<sup>1</sup>Kyung Hee University, <sup>2</sup>National Institute of Technology Rourkela)*

TS01W2\_O\_6

17:10–17:25

**Electrospun Cobalt Ferrite Nanoparticles Embedded into Triboelectric Polymer for Mechanical Energy Harvesting**

Venkata Siva Kavarthapu, Mandar Vasant Paranjape, Punnarao Manchi, Anand Kurakula, Sontyana Adonijah Graham, and Jae Su Yu

*(Kyung Hee University)*

TS01W2\_O\_7

17:25–17:40

**Efficient Thermal Management Strategy via Oriented Heat Transfer by Passive Cooling Material**

Da Seul Kim and Jeong Min Baik

*(Sungkyunkwan University)*

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