

## [TS02W1]

### Nanomaterials for the Next-Generation Batteries I

<b>Date &amp; Time</b>	July 3(Wed.), 2024 / 09:00–10:30
<b>Place</b>	Room 306
<b>Session Chair(s)</b>	Ji-Won Jung (Univ. of Ulsan)

TS02W1\_O\_1

09:00–09:15

#### Thermal Runaway Mechanism of Ni-Rich Cathode Full-Cell

Sugeun Jo<sup>1,2</sup>, Sungjae Seo<sup>1</sup>, Ikcheon Na<sup>1</sup>, Sebastian Kunze<sup>1</sup>, Munsoo Song<sup>1</sup>, Sung Pil Woo<sup>3</sup>, Song Kyu Kang<sup>2</sup>, San Hwang<sup>1</sup>, Won Bae Kim<sup>2</sup>, SoHee Kim<sup>3</sup>, and Jongwoo Lim<sup>1</sup>

(<sup>1</sup>Seoul National University, <sup>2</sup>POSTECH, <sup>3</sup>Samsung SDI)

TS02W1\_O\_2

09:15–09:30

#### Nanoscope Strain-Associated Lithium Diffusion in Single-Crystalline NMC Battery Particles

Danwon Lee<sup>1</sup>, Chihyun Nam<sup>1</sup>, Juwon Kim<sup>1</sup>, Bonho Koo<sup>1</sup>, Hyejeong Hyun<sup>1</sup>, Jinkyu Chung<sup>1</sup>, Sungjae Seo<sup>1</sup>, Munsoo Song<sup>1</sup>, Jaejung Song<sup>1</sup>, Daan Hein Alsem<sup>3</sup>, Norman J. Salmon<sup>3</sup>, Suyong Lee<sup>2</sup>, Namdong Kim<sup>2</sup>, David A. Shapiro<sup>4</sup>, and Jongwoo Lim

(<sup>1</sup>Seoul National University, <sup>2</sup>POSTECH, <sup>3</sup>Hummingbird Scientific, <sup>4</sup>Lawrence Berkeley National Laboratory)

TS02W1\_I\_3 \*Invited

09:30–10:00

#### Materials Processing to Create Fibrous Structures and its Application to Battery Manufacturing

Jae Chul Kim

(Stevens Institute of Technology)

TS02W1\_I\_4 \*Invited

10:00–10:30

#### Progress and Future Perspectives on Employing Electrospun Nanofibers for Advanced Energy Storage Systems

Jun Young Cheong

(University of Glasgow)