

[TS14T5]

Nanometric Metrology and Computation 4

Date & Time	July 4(Thu.), 2024 / 15:40–18:25
Place	Room 209B
Session Chair(s)	Hyoung Jeen Jeen (Pusan Nat'l Univ.)

TS14T5_I_1 *Invited 15:40–16:10

Nanoscale Temperature Mapping for Operating Devices with Reflection Electron Elastic Energy Thermometry (REEET)

Menglong Hao^{1,3}, Qiye Zheng^{2,3,4}, Ziwen Zhang^{1,3}, Yicong Qiu², Yuhang Cai³, Xing Xiang², Saad Safiullah², Yanguang Zhou², Junqiao Wu^{3,4}, and Chris Dames^{3,4}

(¹Southest University, ²HKUST, ³University of California, ⁴Lawrence Berkeley National Laboratory)

TS14T5_O_2 16:10–16:25

Comparison DUV to NUV in Atom Probe Tomography based on Different Materials

Chang-Gi Lee, Ijun Rho, and Se-Ho Kim

(Korea University)

TS14T5_O_3 16:25–16:40

Three-Dimensional Polar Topology in Ferroelectric Nanoparticles

Yongsoo Yang¹, Chaehwa Jeong¹, Juhyeok Lee¹, Hyesung Jo¹, Jaewhan Oh¹, Hionsuck Baik², Kyoung-June Go³, Junwoo Son³, Si-Young Choi³, Sergey Prosandeev⁴, and Laurent Bellaiche⁴

(¹KAIST, ²KBSI, ³POSTECH, ⁴University of Arkansas)

TS14T5_I_4 *Invited 16:40–17:10

Exploring Quasi-Particle Transport in Polymers

Taeyong Kim

(Seoul National University)

TS14T5_O_5 17:10–17:25

Enhancing Li Kinetics in Truncated Octahedral-Shaped LiNi_{0.5}Mn_{1.5}O₄ Cathode via Superior LiNbO₃ Coating on {111} Facets

Jeong-Min Kim¹, Min Seuk Kim², Si Jin Sung², Ji Seul Gi², Sun Sook Lee², Sungho Choi², and Si-Young Choi¹

(¹POSTECH, ²KRICT)

TS14T5_O_6

17:25–17:40

Site Selectivity of Single Dopant in High-Nickel Cathodes for Lithium-Ion Batteries

So-Yeon Kim¹, Yu-Jeong Yang¹, Eun Gyu Lee², Min-Su Kim¹, Kyoung-June Go¹, Minseuk Kim², Gi-Yeop Kim¹, Sungho Choi², and Si-Young Choi^{1,3}

(¹POSTECH, ²KRICT, ³IBS)

TS14T5_O_7

17:40–17:55

Nanostructured Reference Materials for Nano Measurement by SEM and AFM

Kyung Joong Kim

(Kims Reference Corp.)

TS14T5_I_8 *Invited

17:55–18:25

Exploration of Nanoscale Functionalities of Complex Oxides via Scanning Probe Microscopy

Youn Heo

(Inha University)

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