

[TS05T4]

Nanomaterials for Extreme Environments and Applications 4

Date & Time	July 4(Thu.), 2024 / 14:00–15:30
Place	Room 207
Session Chair(s)	Youngsang Na (KIMS)

TS05T4_I_1 *Invited 14:00–14:30

Micro-Tensile Behavior of Body-Centered-Cubic Metal Single Crystals at Cryogenic Temperatures

Seok-Woo Lee

(University of Connecticut)

TS05T4_I_2 *Invited 14:30–15:00

Enhancing Mechanical and Functional Properties using Severe Plastic Deformation under High-Pressure

Zenji Horita^{1,2,3}

(¹Kyushu Institute of Technology, ²Kumamoto University, ³Saga University)

TS05T4_O_3 15:00–15:15

Understanding the Tensile Behaviors and Discontinuous Plastic Flow of 304L Stainless Steel at Liquid-Helium Temperature

Sang-Hun Shim, Seungmin Jeon, Seong-June Youn, Junho Lee, Ka-Ram Lim, Young-Kyun Kim, and Young-Sang Na

(KIMS)

TS05T4_O_4 15:15–15:30

Strain-Rate-Dependent Dislocation Plasticity in Mg Alloys

X.Y. Xu¹, C.P. Huang¹, H.Y. Wang², Y.Z. Li³, and M.X. Huang¹

(¹The University of Hong Kong, ²Hebei University of Technology, ³Northeastern University)