[TS16W1]

Computational Materials and Data Science for Nanotechnology 1

Date & Time	July 3(Wed.), 2024 / 09:00–10:30
Place	Room 213
Session Chair(s)	Ki-Ha Hong (Hanbat Nat'l Univ.)

TS16W1_O_1 09:00–09:20

Small Dataset Machine-Learning Approaches to Explore the Design Space of Multicomponent Alloys

Seung-Hyun Victor Oh[1], Su-Hyun Yoo[2], and Woosun Jang[1]

([1]Yonsei University, [2]KRICT)

TS16W1_O_2 09:20–09:40

Understanding Off-Stoichiometry of Q-Phase in Al-Cu-Mg-Si Alloys

Kyoungdoc Kim

(POSTECH)

TS16W1_O_3 09:40–10:00

Exploration of High-Ductility Ternary Refractory High-Entropy Alloys using First-Principles Calculations and Machine Learning

Hyo-Sun Jang[1], Jin-Woong Lee[2,3], Byung Do Lee[2], Kee-Sun Sohn[2], Jiwon Park[1], and Chang-Seok Oh[1]

([1]KIMS, [2]Sejong University, [3]SK Siltron Inc.)

TS16W1_O_4 10:00–10:15

Understanding and Control of Nano-Scale Grain Evolution in Nb_3Sn Superconducting Wire

Sang-Ho Oh[1], Yang-Jin Jeong[2], Sin-Hye Na[2], Jiman Kim[2], and Byeong-Joo Lee[1]

([1]POSTECH, [2]Kiswire Advanced Technology Ltd.)

TS16W1_O_5 10:15–10:30

Machine Learning-Driven Solutions to Evaporation-Induced Variability in Chemical Composition of In-Situ Alloyed Products Fabricated by Direct Energy Deposition

Jaemin Wang, Eun Seong Kim, Hyoung Seop Kim, and Byeong-Joo Lee

(POSTECH)