

[TS05W1]

Nanomaterials for Extreme Environments and Applications 1

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| Date & Time | July 3(Wed.), 2024 / 09:00–10:30 |
| Place | Room 207 |
| Session Chair(s) | Kyoungdoc Kim (POSTECH) |

TS05W1_I_1 *Invited 09:00–09:30

Microstructural Design of Alloys using 3D Printing

Upadrasta Ramamurty

(Nanyang Technological University)

TS05W1_O_2 09:30–09:45

Additive Manufacturing for Heterogeneous Metallic Architected Materials

Hyoung Seop Kim

(POSTECH)

TS05W1_O_3 09:45–10:00

Mechanical Behavior of Pure Copper Fabricated by Selective Laser Melting at Liquid Helium Temperature

Seong-June Youn, Ka-Ram Lim, Young-Sang Na, and Young-Kyun Kim

(KIMS)

TS05W1_O_4 10:00–10:15

Synergistic Effects of Grain Boundary and Chemical Short-Range Order on Radiation Resistance in NiCoCr Alloys

Hyeonwoo Kim¹, Sangtae Kim¹, Miaomiao Jin², and Yang Yang²

(¹Hanyang University, ²Pennsylvania State University)

TS05W1_O_5 10:15–10:30

Integrated Computational Materials Engineering for Fire Resistant Steels

Kyoungdoc Kim

(POSTECH)