

[TS05W2]**Nanomaterials for Extreme Environments and Applications 2**

Date & Time	July 3(Wed.), 2024 / 15:40-17:40
Place	Room 207
Session Chair(s)	Dong-Woo Suh (POSTECH)

TS05W2_I_1 *Invited 15:40-16:10**Recent Nanoindentation Studies on Novel Materials R&D**

Jae-il Jang

*(Hanyang University)***TS05W2_I_2 *Invited 16:10-16:40****Design of Bulk Nanostructured Eutectic High Entropy Alloy and its Application for Electrocatalysis**

Zhijun Wang, Xiao Han, Qingfeng Wu, Xiaobin Hu, Runtong Zhou, Qiao Chen, Xueyuan Qiu, Pan Wang, Chang Guo, and Jincheng Wang

*(Northwestern Polytechnical University)***TS05W2_O_3 16:40-16:55****Microstructure Evolution of Hierarchical Nanotwins in CoCrFeNi High-Entropy Alloys as Function of High Strain-Rate Hopkinson Bar Deformations**Tsai-Fu Chung^{1,2}, Chien-Nan Hsiao³, Po-Kai Chiu³, Yo-Shiuan Lin⁴, Jer-Ren Yang⁴, An-Chou Yeh², Jien-Wei Yeh², and Chih-Yuan Chen⁵*(¹National Yang Ming Chiao Tung University, ²National Tsing Hua University, ³Taiwan Instrument Research Institute, ⁴National Taiwan University, ⁵National Taipei University of Technology)***TS05W2_O_5 16:55-17:10****Boron Microalloying for Nano-Precipitation-Strengthened High-Temperature Eutectic High-Entropy All**

Yuhao Jia, Zhijun Wang, and Qingfeng Wu

*(Northwestern Polytechnical University)***TS05W2_O_6 17:10-17:25****Exploring Corrosion Behavior of Al-Si-Mg Alloys: Role of Intermetallic Phases**

Saif Haider Kayani, Young-Hee Cho, Heon-Young Ha, and Jung-Moo Lee

(KIMS)

TS05W2_O_7

17:25–17:40

The Effect of an Atomic Hydrogen on the Kink Formation in a $\langle 111 \rangle \{110\}$ Screw Dislocation in BCC Tungsten: Atomistic Study

Hyoungryl Park, Hyung Gyu Lee, and Keonwook Kang

(Yonsei University)

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