Room H #108 **13:30-15:30**

[We-H2] Thermoelectric IV
Session Chairs:
Soonil Lee (Changwon Nat'l Univ., Korea),
Ngo Van Hong (Technical Univ. of Denmark, Denmark)

We-H2-1 [Invited] 13:30-14:00

High Performance Thermoelectric Materials and Modules Energy Harvesting

Ngo Van Nong, Le Thanh Hung, and Safdar Abbas Malik
Technical Univ. of Denmark, Denmark

We-H2-2 [Invited] 14:00-14:30

High Performance Shape Engineerable Thermoelectric Pastes

Son Jae Sung, Fredrick Kim, Seungki Jo, and Seungjun Choo
UNIST, Korea

We-H2-3 14:30-14:45

Design and Fabrication of Thermoelectricpower Generation System for Energy Harvesting from Exhaust Pipe

HanKi Cho and Seungwoo Han
KIMM, Korea

We-H2-4 14:45-15:00

Optimal Operating Conditions of the Eco-Friendly Thermoelectric Cooler Installed in Automobiles

Da-Hye Kim[1], Sijin Kim[2], and Seungwoo Han[1,3]
[1]Univ. of Sci. and Tech., Korea, [2]TETech, Korea, [3]KIMM, Korea

We-H2-5 15:00-15:15

Material Optimization for Wearable Thermoelectric Generator

Gyusoup Lee[1], Garam Choi[2], Choong Sun Kim[1], Yong Jun Kim[1], Hyeongdo Choi[1], Seongho Kim[1], Hyo Seok Kim[2], Won Bo Lee[2], and Byung Jin Cho[1]
[1]KAIST, Korea, [2]Seoul Nat'l Univ., Korea

We-H2-6 15:15-15:30

Wireless Sensor Node Powered by a Flexible Thermoelectric Generator for Industrial Environmental Monitoring

Yong Jun Kim[1], Byung Jin Cho[1], Choong Sun Kim[1], Hyeongdo Choi[1], Gyusoup Lee[1], Seongho Kim[1], Kevin K. Yi[2], and Sang Gug Lee[1]
[1]KAIST, Korea, [2]Tegway, Korea

Room I #204 **13:30-15:30**

[We-I2] Design of Advanced Materials I
Session Chairs:
Yuan Ping Feng (Nat'l Univ. of Singapore, Singapore),
Hiroshi Mizuseki (KIST, Korea)

We-I2-1 [Invited] 13:30-14:00

Origin of Dirac Cone Formation in 2D Binary Materials: "Divide-and-Couple" Mechanism

Yi Liu and Xu-Ming Qin
Shanghai Univ., China

We-I2-2 14:00-14:15

Pressure Induced Topological Phase Transition in Layered Bi_2S_3

Yuan Ping Feng[1], Ming Yang[2], Yongzheng Luo[1], Minggang Zeng[3], Lei Shen[1], Yunhao Lu[4], Jun Zhou[1], Shijie Wang[2], and Iam Keong Sou[5]
[1]Nat'l Univ. of Singapore, Singapore, [2]Inst. of Materials Research and Engineering, Singapore, [3]Data Storage Inst., Singapore, [4]Zhejiang Univ., China, [5]The Hong Kong Univ. of Sci. and Tech., China

We-I2-3 14:15-14:30

New Structure Prediction of Novel Carbon Phases based on a Multi-Start Local Search Approach

Hiroshi Mizuseki and Babu Ram
KIST, Korea

We-I2-4 [Invited] 14:30-15:00

Triply Degenerate Nodal Point Semimetals

Hongming WENG
CAS, China

We-I2-5 15:00-15:15

DFT-based Modeling of Crystalline γ-Al_2O_3/ß-Ga_2O_3 Interface

Junsung Park and Sung-Min Hong
GIST, Korea

We-I2-6 15:15-15:30

Comparison of Empirical Potentials for Calculating Structural Properties of Amorphous Carbon Films by Molecular Dynamics Simulation

Xiaowei Li and Kwang-Ryeol Lee
KIST, Korea