

**Room H #108** 10:30-12:30**[We-H1]** Thermoelectric III**Session Chairs:**

Paolo Mele (Shibaura Inst. of Tech., Japan),  
Ferdinand Poudeu (Univ. of Michigan, USA)

**We-H1-1 [Invited]** 10:30-11:00**Chemical Manipulation of Phase Stability and Electronic Behavior in  $\text{Cu}_{4-x}\text{Ag}_x\text{Se}_2$** 

Ferdinand Poudeu, Alan Olvera, Trevor P. Bailey, and  
Ctirad Uher  
*Univ. of Michigan, USA*

**We-H1-2 [Invited]** 11:00-11:30**Thermoelectric Properties of Nanostructured Thin Film Oxides**

Paolo Mele<sup>1,2</sup>  
<sup>1</sup>*Shibaura Inst. of Tech., Japan*, <sup>2</sup>*Muroran Inst. of Tech., Japan*

**We-H1-3** 11:30-11:45**Planar Thin Film Thermoelectric Device**

Haishan Shen<sup>1,2</sup>, Sizin Kim<sup>3</sup>, Hoojeong Lee<sup>2</sup>, and Seung-woo Han<sup>1</sup>  
<sup>1</sup>*KIMM, Korea*, <sup>2</sup>*Sungkyunkwan Univ., Korea*, <sup>3</sup>*Te-tech company, Korea*

**We-H1-4** 11:45-12:00**High Temperature Stability of Thermoelectric Silicides**

David Berthebaud  
*CNRS, Japan*

**We-H1-5 [Invited]** 12:00-12:30**Thermoelectric Transport in Holey Silicon and Rough Silicon Nanowires**

Jongwoo Lim<sup>1</sup> and Peidong Yang<sup>2</sup>  
<sup>1</sup>*Seoul Nat'l Univ., Korea*, <sup>2</sup>*Univ. of California, USA*

**Room I #204** 10:30-12:30**[We-I1]** Mat. Informatics**Session Chairs:**

Seungchul Kim (KIST, Korea),  
Abhishek Kumar Singh (Indian Inst. of Sci., India)

**We-I1-1 [Invited]** 10:30-11:00**Combining Deep Learning and High-Throughput Quantum Mechanical Calculations for Materials Design**

Shyue Ping Ong, Chi Chen, Weike Ye, Chen Zheng, Zhenbin Wang, and Zhuoying Zhu  
*Univ. of California, San Diego, USA*

**We-I1-2** 11:00-11:15**High Throughput Experimental Materials Database**

Andriy Zakutayev, Nick Wunder, Marcus Schwarting, John Perkins, Robert White, Kristin Munch, William Tumas, and Caleb Phillips  
*Nat'l Renewable Energy Laboratory, USA*

**We-I1-3 [Invited]** 11:15-11:45**Materials Informatics based on Reliable Materials Database**

Yoshiyuki Kawazoe<sup>1,2</sup>  
<sup>1</sup>*Tohoku Univ., Japan*, <sup>2</sup>*SRM Inst. of Sci. and Tech., India*

**We-I1-4 [Invited]** 11:45-12:15**Estimation of Accurate Bandgap of Functionalized MXene using Statistical Learning**

Abhishek Kumar Singh  
*Indian Inst. of Sci., India*