

## Program of Session O

### Thermoelectric Materials: Design, Synthesis, Growth and Properties

**O 1: August 5 (Tuesday), 11:00-11:45**

**Room:** 312

**Chair:** Jie Ma

**11:00-11:30**

**O01 (Invited)**

Advanced Thermoelectric Cooling Materials

**Lidong Zhao, Beihang University, CHINA**

**11:30-11:45**

**O02 (Oral)**

High-Performance Bi-Sb-Te Thermoelectric Materials Synthesized via Melt Spinning and Spark Plasma Sintering for Energy Harvesting Applications

**Yu Kun Xie, Settu Ramki, Hsiao Ping Hsu, Chung Wen Lan, National Taiwan University, CHINESE TAIBEI**

**O2: August 5 (Tuesday), 14:00-15:00**

**Room:** 312

**Chair:** In Chung

**14:00-14:30**

**O03 (Invited)**

Decoupling lattice vibrations in superionic thermoelectric compounds with colossal phonon anharmonicity

**Jie Ma, Shanghai Jiao Tong University, CHINA**

**14:30-14:45**

**O04 (Oral)**

Significant anharmonic scattering in single-crystalline  $\text{Mg}_{4.8}\text{Ag}_{1.4}\text{Sb}_4$  with site-occupation disorders

**Shizhen Zhi, Harbin Institute of Technology, Shenzhen, CHINA**

**14:45-15:00**

**O05 (Oral)**

Revealing the promising near-room-temperature thermoelectric performance in  $\text{Ag}_2\text{Se}$  single crystals

**Siqi Lin, Min Jin, Shanghai Dianji University, CHINA**

**O3: August 5 (Tuesday), 16:00-17:00**

**Room: 312**

**Chair: Lidong Zhao**

**16:00-16:30**

**O06 (Invited)**

Exceptionally high thermoelectric performance in polycrystalline SnSe materials

**In Chung, Seoul National University, SOUTH KOREA**

**16:30-17:00**

**O07 (Invited)**

Wide-bandgap SnSe crystals for thermoelectric power generation and coolin

**Bingchao Qin, Beihang University, CHINA**