

Kick-off Symposium on e-ASIA JRP : Data-driven design of high- performance thermoelectrics

**Date : June 7, 2022
1 PM - 5 PM JST**

Zoom Meeting ID : 879 0847 1187

Passcode : 701286

Invited Speakers :



Mikio Koyano

**Professor, Director of
Sustainable Innovation Research
Area, Division of
Transdisciplinary Science, Japan
Advanced Institute of Science
and Technology (JAIST)**

Topic :

**Today's Thermoelectrics and
Thermoelectric Material
Development**



Nguyen T. Hung

**Assistant Professor, Frontier
Research Institute for
Interdisciplinary Sciences,
Tohoku University**

Topic :

**Searching high thermoelectric
performance of atomic layers
and topological materials based on
the band structures**



Tosawat Seetawan

**Professor, Advisor of Executive
Board of Center of Excellence
on Alternative Energy (CEAE),
Research Development Institute
(RDI), Sakon Nakhon Rajabhat
University (SNRU)**

Topic :

**Synthesis, characterization, and
thermoelectric properties of
materials**

Programs :

13:00-13:05 Opening

13:05-13:45 Prof. Mikio Koyano and Dr. Masanobu Miyata: Today's thermoelectrics and thermoelectric material development

13:45-14:10 Dr. Masao Obata : Ab-initio crystal structure optimization using van der Waals density functional approach

14:10-14:20 Break

14:20-15:00 Dr. Nguyen Tuan Hung: Searching high thermoelectric performance of atomic layers and topological materials based on the band structures.

15:00-15:25 Dr. Edi Suprayoga : Thermoelectric properties of 2D materials with combination of linear and nonlinear bandstructures

15:25-15:35 Break

15:35-16:15 Prof. Tosawat Seetawan: Synthesis, characterization, and thermoelectric properties of materials

16:15-16:40 Dr. Kunchit Singsoog : 3D to 2D thermoelectric materials

16:40-16:45 Concluding remarks