

International Workshop on the Frontiers of Functional Materials Research

Dec. 18th, 2023

Venue: Meeting Room, South Multidisciplinary Research Laboratory 2
IMRAM, Tohoku University (Katahira Campus)

09:55 – 10:00

Opening remark (and free coffee)

10:00 – 10:40

Asst. Prof. Prashun Gorai (Colorado School of Mines)

“A Journey from Atoms to Materials: Designing Functional Materials for Energy and Microelectronics”

10:40 – 11:20

Assoc. Prof. Yoshiomi Hiranaga (RIEC, Tohoku Univ.)

“Nanoscale ferroelectric characterization based on local capacitance measurements and more”

11:20 – 12:00

Assoc. Prof. Takashi Nakamura (IMRAM, Tohoku Univ.)

“Defect engineering for energy materials”

~~~Lunch break (free lunch)~~~

13:00 – 13:40

**Assoc. Prof. Shunsuke Kurosawa (NICHe, Tohoku Univ.)**

“Growth and Scintillation Properties for  $\text{Li}_2\text{HfBr}_6$  for Neutron and Gamma Rays Detection”

13:40 – 14:20

**Senior Asst. Prof. Kazuyuki Iwase (IMRAM, Tohoku Univ.)**

“Novel metal oxides with controlled electronic structure for water electrolysis”

~~~Coffee break (free coffee)~~~

14:30 – 15:10

Assoc. Prof. Eric Jianfeng Cheng (AIMR, Tohoku Univ.)

“Addressing interfacial contact challenge between garnet ceramic electrolytes and cathodes in solid-state Li metal batteries”

15:10 – 15:50

Assoc. Prof. Saneyuki Ohno (IMRAM, Tohoku Univ.)

“Exploration of ion conducting solids toward solid-state batteries”

Special guest



Prashun Gorai

Assistant Professor

Colorado School of Mines,

National Renewable Energy Laboratory